



Available Statistics

This appendix covers the available statistics for the following different card types:

- *Statistics for 10/100 Cards.* These cards include the following:
 - 10/100 TX (LM100TX)
 - 10/100 TX3 (LM100TX3)
 - 10/100 MII (LM100MII)
 - 10/100 Reduced MII
 - 100 Base FX MultiMode (LM100FX)
 - 100 Base FX SingleMode (LM100FXSM)
 - Copper 10/100/1000 running at 10/100 Mbps (LM1000T-5)
- *Statistics for 10/100 TXS Modules.* These cards include the following:
 - 10/100 TX8 (LM100TX8)
 - 10/100 TXS8 (LM100TXS8)
- *Statistics for 10/100/1000 TXS, 10/100/1000 XMS(R)12, 1000 SFPS4, and 1000STXS24 Cards.* These cards include the following:
 - 10/100/1000 TX4 (LM1000TX4)
 - 10/100/1000 TXS4 (LM1000TXS4)
 - 10/100/1000 STX2, STX4, STX24 (LM1000STX2/4, OLM1000STX24)
 - 10/100/1000 STXS2, STXS4, STXS24 (LM1000STXS2/4, OLM1000STXS24)
 - 10/100/1000 XMS12, XMSR12 (LSM1000XMS12, LSM1000XMSR12)
 - 1000 SFP4 (LM1000SFP4)
 - 1000 SFPS4 (LM1000SFPS4)
- *Statistics for 10/100/1000 LSM XMV(R)4/8/12/16, and 10/100/1000 ASM XMV12X Cards.* These cards include the following:

- 10/100/1000 XMV4/8/12/16, XMVR4/8/12/16 (LSM1000XMV4/8/12/16, LSM1000XMVR4/8/12/16)
- 10/100/1000 ASM XMV12X
- *Statistics for Gigabit Modules*. These cards include the following:
 - 1000 Base SX MultiMode (LM1000SX)
 - 1000 Base SX SingleMode (LM1000SX3)
 - GBIC (LM1000GBIC)
- *Statistics for OC12c/OC3c Modules*. These cards include the following:
 - OC12c/OC3c (LMOC12c, LMOC3c)
- *Statistics for OC48c Modules with BERT, Statistics for OC48c Modules with SRP and DCC, and Statistics for OC48c Modules with RPR and DCC*. These cards include the following:
 - OC48c POS (LMOC48cPOS, LMOC48cPOS-M)
 - OC48 POS VAR (LMOC48VAR)
 - OC48c BERT (LMOC48cBERT)
 - OC48c BERT Rx
 - OC48c POS/BERT (LMOC49POS/BERT)
- *Statistics for 2.5G MSM POS modules*. These cards include the following:
 - 2.5 Gigabit MSM POS OC-48c modules (MSM2.5G1-01)
- *Statistics for OC192c Modules with BERT, Statistics for OC192c Modules with SRP and DCC, and Statistics for OC192c Modules with RPR and DCC*. These cards include the following:
 - OC192c with optional BERT and 10 Gigabit Ethernet. (LMOC192cPOS+BERT, LMOC192cPOS+BERT+WAN)
 - OC192c VSR. Note that all VSR cards have available all of the VSR statistics listed in the **VSR** section of **Table B-6** on page B-25. (LMOC192cVSR-POS, LMOC192cVSR-BERT, LMOC192cVSR-POS+BERT)
- *Statistics for 10GE Modules with BERT*. These cards include the following:
 - 10 Gigabit Ethernet with optional BERT. (LM10GELAN, LM10GELAN-M, LM10GEWAN, LM10GEXAUI+BERT, LM10GEXAUI BERT only, LM10GEXENPAK+BERT, LM10GEXENPAK-M+BERT, LM10GEXENPAK BERT only)
- *Statistics for 10G UNIPHY Modules with BERT*. These cards include the following:
 - 10 Gigabit UNIPHY with optional LAN/WAN, POS and BERT. (LM10G)
- *Statistics for 10GE LSM Modules (except NGY)*. These cards include the following:
 - 10 Gigabit LSM modules using XFP, XENPAK, or X2 carrier cards. (LSM10GL1-01, LSM10G1-01)

- 10 Gigabit LSM modules supporting MACSec. (LSM10GMS-01)
See also [Table B-32](#) on page B-161 for MACSec statistics.
- 10 Gigabit LSM XL6 modules (for Optixia X16). (LSM10GXL6-01)
- 10 Gigabit LSM XM3, XMR3 (LSM10GXM3, LSM10GXMR3)
- NGY LSM10GXM(R)8(XP)(S)-01, LSM10GXM(R)4(XP)(S)-01, LSM10GXM2XP-01, LSM10GXMR2(S)-01, LSM10GXM2S-01, including 10GBASE-T versions LSM10GXM(R)2/4/8GBT-01
- *Statistics for NGY Modules.* These cards include the following:
 - NGY LSM10GXM(R)8(XP)(S)-01, LSM10GXM(R)4(XP)(S)-01, LSM10GXM2XP-01, LSM10GXMR2(S)-01, LSM10GXM2S-01, including 10GBASE-T versions LSM10GXM(R)2/4/8GBT-01
- *Statistics for 10G MSM modules.* These cards include the following:
 - 10 Gigabit Ethernet MSM modules. (MSM10G1)
- *Statistics for ATM Modules.* These include the following:
 - ATM 622 Multi-Rate (LM622MR, LM622MR-512)
- *Statistics for PoE Modules.* These include the following:
 - Power over Ethernet (PLM1000T4-PD, LSM1000POE4-02)
- *Statistics for 10/100/1000 AFM.* These include the following:
 - 10/100/1000 AFM Stream Extraction Module. (AFM1000SP-01)
- *Statistics for IxNetwork.* These statistics are common to all cards that support IxNetwork.
- *Statistics for 1GbE and 10GbE Aggregation Load Modules.* These include the following:
 - ASM1000XMV12X-01 (in 1GbE Aggregated Mode or 10GbE Aggregated Mode)
- *ALM, ELM and CPM Statistics.* These include the following:
 - ALM1000T8, ELM1000ST2, and CPM1000T8-01 load modules
- *40/100 GE Statistics.* These include the following:
 - 40GE LSM XMV1 and 100GE LSM XMV1 load modules
 - Lava 40/100GE load modules

Table Organization

Each of the following tables details the statistics available for that set of cards. Available statistics are controlled by three sets of controls.

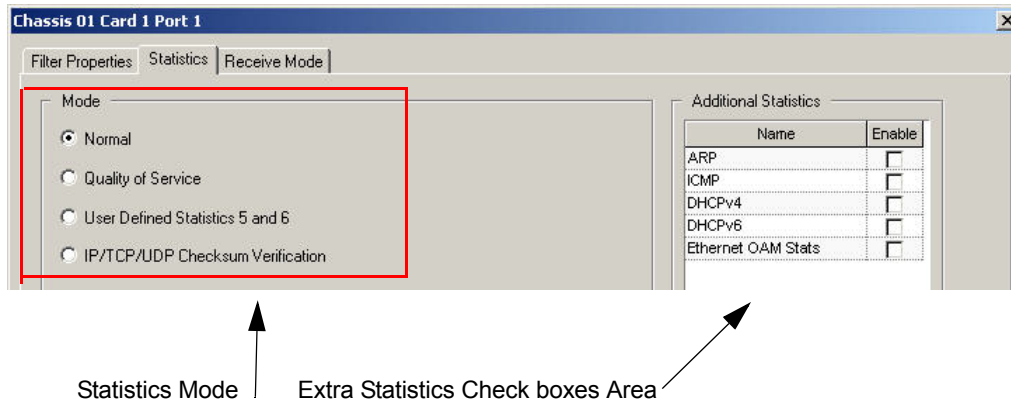
IxExplorer

Statistics Modes

From the IxExplorer pane, select a port and select **Filter, Statistics, Receive Mode** from the right-hand pane. Select the tab at the top labelled **Statistics**. This

is shown here for a Gigabit module with the statistics modes highlighted. The choices here are mutually exclusive. In most cases, when one is selected new statistics are available at the expense of others.

Figure B-1. Statistics Mode Selection



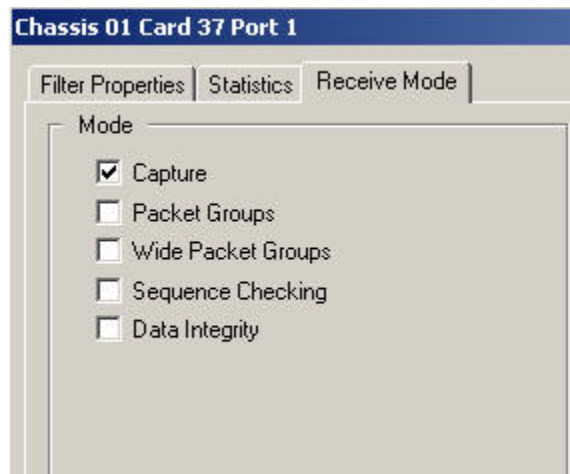
Extra Statistics Check Boxes

Additional statistics are selected through a set of check boxes located on the same **Statistics** tab, in the **Additional Statistics** section. These statistics are always in addition to those in the **Statistics Mode** section.

Receive Mode

From the IxExplorer pane, select a port and select **Filter, Statistics, Receive Mode** from the right-hand pane. Select the tab at the top labelled **Receive Mode**. This is shown here for a 10GE LAN module. The check boxes generally result in additional statistics.

Figure B-2. Receive Mode Selection



Key to Tables

Table B-1 lists the headings that appear in the tables in this appendix and their correspondence to IxExplorer dialogs and selections.

Table B-1. Key for Statistics Table

Heading Item	IxExplorer Dialog	IxExplorer Label
Statistics Mode		
UDS 5&6	Statistics	User Defined Statistics 5 and 6
QoS	Statistics	Quality of Service
Normal	Statistics	Normal
Checksum Errors	Statistics	IP/TCP/UDP Checksum Verification
Data Integrity	Statistics	Data Integrity
Extra Statistics Check boxes		
IxRouter	Statistics	IxRouter Stats
ARP STATS	Statistics	ARP Stats
ICMP STATS	Statistics	ICMP Stats
BGP STATS	Statistics	BGP Stats
OSPF STATS	Statistics	OSPF Stats
ISIS STATS	Statistics	ISIS Stats
RSVP-TE STATS	Statistics	RSVP-TE Stats
LDP STATS	Statistics	LDP Stats
POS Ext	Statistics	POS Extended Stats
DHCPv4	Statistics	DHCPv4 Stats
DHCPv6	Statistics	DHCPv6 Stats
Temp Sensors	Statistics	Temperature Sensor Stats
OAM Stats	Statistics	Ethernet OAM Stats
PTP Stats	Statistics	Ptp Stats
Receive Mode		
Rx Capture	Receive Mode	Capture
Rx Seq Checking	Receive Mode	Sequence Checking
Rx Data Integrity	Receive Mode	Data Integrity
Rx Packet Group	Receive Mode	Packet Group

Table B-1. Key for Statistics Table

Heading Item	IxExplorer Dialog	IxExplorer Label
Rx Mode Bert	Receive Mode	Mode Bert
Rx Mode ISL	Receive Mode	Mode ISL
Rx Bert Channelized	Receive Mode	Bert Channelized
Rx Mode Echo	Receive Mode	Mode Echo
Rx Mode DCC	Receive Mode	Mode DCC
Rx Wide Packet Group	Receive Mode	Wide Packet Groups
Rx Mode PRBS	Receive Mode	PRBS
Rx Rate Monitoring	Receive Mode	Rate Monitoring
Rx Per Flow Error Stats	Receive Mode	Per PGID Checksum Error Stats

TCL Development

Statistics Mode

The statistics mode is controlled by the use of the `Tcl stat mode` command. [Table B-2](#) lists the available choices and their correspondence to IxExplorer choice .

Table B-2. Tcl Stat Mode Options

Option	IxExplorer Choice
<code>statNormal (0)</code> (default)	Normal
<code>statQos (1)</code>	Quality of Service
<code>statStreamTrigger (2)</code>	User Defined Statistics 5 and 6
<code>statModeChecksumErrors (3)</code>	IP/TC@/UDP Checksum Verification
<code>statModeDataIntegrity (4)</code>	Data Integrity

Access to Statistics

Most statistics are accessed through the use of `stat` command. VSR statistics are access through the use of the `vsrStat` command.

Receive Mode

The receive mode is controlled through the use of the `port_receiveMode` option. The choices available are or'd together and list the bits available to control the receive mode.

Table B-3. Tcl Port Receive Options

Option	IxExplorer Choice
<code>portCapture (1)</code>	Capture
<code>portPacketGroup (2)</code>	Packet Groups
<code>portRxTcpSessions (4)</code>	Does not affect statistics.
<code>portRxTcpRoundTrip (8)</code>	Does not affect statistics.
<code>portRxDataIntegrity (16)</code>	Data Integrity
<code>portRxFirstTimeStamp (32)</code>	Does not affect statistics.
<code>portRxSequenceChecking (64)</code>	Sequence Checking
<code>portRxModeBert (128)</code>	BERT Mode
<code>portRxModeBertChannelized (128)</code>	Channelized BERT Mode
<code>portRxModeIsl</code>	ISL Mode
<code>portRxModeEcho</code>	Echo Mode
<code>portRxModeDcc</code>	DCC Mode
<code>portRxModeWidePacketGroup</code>	Wide Packet Groups
<code>portRxModePrbs</code>	PRBS Mode
<code>portRxModeRateMonitoring</code>	Rate Monitoring
<code>portRxModePerFlowErrorStats</code>	Per PGID Checksum Error Stats

C++ Development

Statistics Mode

The statistics mode is controlled by the use of the `stat.mode` member. [Table B-1](#) on page B-4 lists the available choices and their correspondence to IxExplorer choices and the labels used in the tables in this appendix.

Table B-4. C++ Stat Members

Member Value	IxExplorer Choice
<code>statNormal (0) (default)</code>	Normal
<code>statQos (1)</code>	Quality of Service
<code>statStreamTrigger (2)</code>	User Defined Statistics 5 and 6
<code>statModeChecksumErrors (3)</code>	IP/TCP/UDP Checksum Verification
<code>statModeDataIntegrity (4)</code>	Data Integrity

Access to Statistics

Most statistics are accessed through the use of `TCLStatistics` class. VSR statistics are accessed through the use of the `TCLvsrStat` class.

Receive Mode

The receive mode is controlled through the use of the `port.receiveMode` member. The choices available are or'd together and list the bits available to control the receive mode.

Table B-5. Tcl Port Receive Options

Member Value	ixExplorer Choice
<code>portCapture</code> (1)	Capture
<code>portPacketGroup</code> (2)	Packet Groups
<code>portRxTcpSessions</code> (4)	Does not affect statistics.
<code>portRxTcpRoundTrip</code> (8)	Does not affect statistics.
<code>portRxDataIntegrity</code> (16)	Data Integrity
<code>portRxFirstTimeStamp</code> (32)	Does not affect statistics.
<code>portRxSequenceChecking</code> (64)	Sequence Checking
<code>portRxModeBert</code> (128)	BERT Mode
<code>portRxModeBertChannelized</code> (128)	Channelized BERT Mode
<code>portRxModeIsl</code>	ISL Mode
<code>portRxModeEcho</code>	Echo Mode
<code>portRxModeDcc</code>	DCC Mode
<code>portRxModeWidePacketGroup</code>	Wide Packet Groups
<code>portRxModePrbs</code>	PRBS Mode
<code>portRxModeRateMonitoring</code>	Rate Monitoring
<code>portRxModePerFlowErrorStats</code>	Per PGID Checksum Error Stats

Description of Statistics

Table B-6 lists all of the available statistics, along with an explanation of those statistics. The following three columns are used:

- Counter: the name of the statistics as it appears in IxExplorer. These are organized by general category, as used in the remaining tables in this appendix.
- Interpretation: the description of the statistics.
- Internal Basename: the internal *basename* used to describe the statistics in the TCL and C++ API. The base name is used to form other names:
 - TCL *stat* command options: the *basename* is the name of the option.
 - TCL *stat* command `get` sub-command *counterType* argument: the *counterType* name needed to fetch a particular statistic is formed by prepending the letters *stat* to the *basename*, while capitalizing the first letter of the statistic. For example, for *basename* `alignmentErrors`, the *counterType* name is `statAlignmentErrors`.
 - C++ *statistic* class members: the *basename* is the name of the member.
 - C++ *statistic* command `get` method *counterType* argument: the *counterType* name needed to fetch a particular statistic is formed by prepending the letters *stat* to the *basename*, while capitalizing the first letter of the statistic. For example, for *basename* `alignmentErrors`, the *counterType* name is `statAlignmentErrors`.

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
Optixia X16 Chassis		
Opix Power Supply 1 Status	The status of the #1 (left most) power supply.	Not available.
Opix Power Supply 2 Status	The status of the #2 power supply.	Not available.
Opix Power Supply 3 Status	The status of the #3 power supply.	Not available.
Opix Power Supply 4 Status	The status of the #4 power supply.	Not available.
Opix Power Supply 1 Current	The current of the #1 power supply. This should be within 3 amps of other installed power supplies.	Not available.
Opix Power Supply 2 Current	The current of the #2 power supply. This should be within 3 amps of other installed power supplies.	Not available.
Opix Power Supply 3 Current	The current of the #3 power supply. This should be within 3 amps of other installed power supplies.	Not available.

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
Opix Power Supply 4 Current	The current of the #4 power supply. This should be within 3 amps of other installed power supplies.	Not available.
Opix Fan Bank 1 Status	The status of the #1 bank of fans, located in the fan tray.	Not available.
Opix Fan Bank 2 Status	The status of the #2 bank of fans, located in the fan tray.	Not available.
Opix Fan Bank 3 Status	The status of the #3 bank of fans, located in the fan tray.	Not available.
Opix Fan Bank 4 Status	The status of the #4 bank of fans, located in the fan tray.	Not available.
Optixia X16 Load Modules	A variable number of the statistics in this category are available for OLM load modules.	
5V Power Status	Indicates that the 5VDC bus A rail is on and valid.	Not available.
3.3V Power Status	Indicates that the 3.3VDC bus A rail is on and valid.	Not available.
3.3V/5V Power Status	Indicates that either the bus A 5VDC or 3.3VDC rail had an overcurrent event and shut down.	Not available.
LM Other Power Output	Indicates that power is good for the miscellaneous power supplies.	Not available.
LM 48V Power Output	Indicates that the -48VDC input is on.	Not available.
LM Temperature 1 Status	LM 83 programmable interrupt - over temperature alarm.	Not available.
LM Temperature 2 Status	LM 83 critical temperature alarm.	Not available.
LM Bus B 5V Power Status	Indicates that the 5VDC bus B rail is on and valid.	Not available.
LM Bus B 3.3V Power Status	Indicates that the 3.3VDC bus B rail is on and valid.	Not available.
LM Bus B 3.3V/5V Power Status	Indicates that either the bus B 5VDC or 3.3VDC rail had an overcurrent event and shut down.	Not available.
LM Temperature Central FPGA	Nominal board temperature in area 3.	Not available.
LM Temperature LM83	Nominal board temperature in area 1.	Not available.
LM Temperature LM87	Nominal board temperature in area 2.	Not available.

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
LM -48VDC Status	Indicates that the -48VDC input is in the valid input range.	Not available.
LM System V1	Dependent on each Optixia Load Module. Monitors one of several system buses.	Not available.
LM SMBUS 3.3V	Measures the SM bus. This value should be 3.3VDC +/- 10%.	Not available.
LM System V2	Dependent on each Optixia Load Module. Monitors one of several system buses.	Not available.
LM System V3	Dependent on each Optixia Load Module. Monitors one of several system buses.	Not available.
LM System V4	Dependent on each Optixia Load Module. Monitors one of several system buses.	Not available.
LM System V5	Dependent on each Optixia Load Module. Monitors one of several system buses.	Not available.
LM System V6	Dependent on each Optixia Load Module. Monitors one of several system buses.	Not available.
LM System V7	Dependent on each Optixia Load Module. Monitors one of several system buses.	Not available.
User Configurable		
User Defined Stats 1 and 2 & Rate	Counters that increment each time the statistics conditions are met. The user-defined statistics conditions are set up in the Capture Filter window.	userDefinedStat1 userDefinedStat2
Capture Trigger (UDS3) & Rate	A counter that increments each time the capture trigger conditions are met, as defined in the Capture Filter window.	captureTrigger
Capture Filter (UDS4) & Rate	A counter that increments each time the capture filter conditions are met, as defined in the Capture Filter window.	captureFilter
User Defined Stats 5 and 6 & Rate	Counters that increment each time the statistics conditions are met. The user-defined statistics conditions are set up in the Capture Filter window. (N/A to OC192 modules.)	streamTrigger1 streamTrigger2
States		
Link State	'Up' when a link is established with another device, 'Loopback' when the port has loopback enabled, 'Down' when there is no connection to another device. (See note 2 in Notes .)	link

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
Line Speed	'10,' '100,' or '1000' (denoting Mbps) and OC-12, OC-3 or OC-48 for POS modules. (See note 6 in Notes .)	lineSpeed
Duplex Mode	'Half' or 'Full.' Half duplex only applies to 10/100 Load Modules. (See note 7 in Notes .)	duplexMode
Transmit State	Not shown in IxExplorer. The current transmit state of the port. See the <i>stat</i> command in the <i>Tcl Development Guide</i> and <i>C++ Development Guide</i> .	transmitState
Capture State	Not shown in IxExplorer. The current capture state of the port. See the <i>stat</i> command in the <i>Tcl Development Guide</i> and <i>C++ Development Guide</i> .	captureState
Pause State	Not shown in IxExplorer. The current pause state of the port. See the <i>stat</i> command in the <i>Tcl Development Guide</i> and <i>C++ Development Guide</i> .	pauseState
Common		
Frames Sent & Rate	A counter that increments only when a frame is successfully transmitted. This counter does not count collision attempts.	framesSent
Valid Frames Received & Rate	The valid frame size is from 64 bytes to 1518 bytes inclusive of FCS, exclusive of preamble and SFD and must be an integer number of octets. This 32 bit counter only counts frames with good FCS. VLAN tagged frames that are greater than 1518 but less than 1522 bytes in size are also counted by this counter.	framesReceived
Bytes Sent & Rate	A counter that counts the total number of bytes transmitted.	bytesSent
Bytes Received & Rate	A counter that counts the total number of bytes received.	bytesReceived
Bits Sent & Rate	A counter that counts the total number of bits transmitted.	bitsSent
Bits Received & Rate	A counter that counts the total number of bits received.	bitsReceived
Scheduled Transmit Time	The scheduled transmit time associated with the port.	scheduledTransmitTime
CPU Status	The status of the port's CPU.	portCpuStatus
CPU DoD Status	The status of the port's DoD process.	portCpuDodStatus

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
Transmit Duration		
Transmit Duration	Reserved for future use	transmitDuration
Quality of Service		
Quality of Service 0 - 7 & Rate	Counters which increment each time a frame with that particular QoS setting is received. (N/A to OC192-3)	qualityOfService0 qualityOfService1 ...
Framer Stats		
Framer CRC Errors	CRC errors detected by the POS framer.	framerFCSErrors
Framer Abort	POS frames aborted by the Framer.	framerAbort
Framer Min Length & Rate	POS frames received with less than the minimum length.	framerMinLength
Framer Max Length & Rate	POS frames received with more than the maximum length.	framerMaxLength
Extended Framer Stats		
Framer Frames Sent	Reserved for future use.	framerFramesTx
Framer Frames Received	Reserved for future use.	framerFramesRx
Checksum Stats		
IP Packets Received	The number of IP packets received.	ipPackets
UDP Packets Received	The number of UDP packets received.	udpPackets
TCP Packets Received	The number of TCP packets received.	tcpPackets
IP Checksum Errors	The number of IP checksum errors detected.	ipChecksumErrors
UDP Checksum Errors	The number of UDP checksum errors detected.	udpChecksumErrors
TCP Checksum Errors	The number of TCP checksum errors detected.	tcpChecksumErrors
Data Integrity		
Data Integrity Frames	The number of data integrity frames received.	dataIntegrityFrames
Data Integrity Errors	The number of data integrity errors detected.	dataIntegrityErrors
Sequence Checking		
Sequence Frames	The number of sequence checking frames received.	sequenceFrames

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
Sequence Errors	The number of sequence checking errors detected.	sequenceErrors
Small Sequence Errors	The number of times when the current sequence number minus the previous sequence number is less than or equal to the error threshold and not negative, or when the current sequence number is equal to the previous sequence number.	smallSequenceErrors
Big Sequence Errors	The number of times when the current sequence number minus the previous sequence number is greater than the error threshold.	bigSequenceErrors
Reverse Sequence Errors	The number of times when the current sequence number is less than the previous sequence number.	reverseSequenceErrors
Total Sequence Errors	The sum of the small, bug and reverse sequence errors.	totalSequenceErrors
Packet Group Mode		
Packets Skipped In Packet Group Mode	The number of packets which were not assigned to a packet group. This can occur if the packet contains the anticipated packet group signature, but is too short to hold the group ID.	packetsSkippedInPacketGroupMode
IxRouter Stats		
General		
IxRouter Server Transmit	Packets transmitted by the protocol handler.	protocolServerTx
IxRouter Receive	Packets received by the protocol handler.	protocolServerRx
VLAN Dropped Frames	The number of VLAN frames dropped by the IxRouter.	protocolServerVlanDroppedFrames
ARP		
Transmit Arp Reply	Number of ARP replies generated.	txArpReply
Transmit Arp Request	Number of ARP requests generated.	txArpRequest
Receive Arp Reply	Number of ARP replies received.	rxArpReply
Receive Arp Request	Number of ARP requests received.	rxArpRequest
ICMP		
Receive Ping Reply	Number of Ping replies received. (N/A to OC192-3)	rxPingReply

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
Receive Ping Request	Number of Ping requests generated. (N/A to OC192-3)	rxPingRequest
Transmit Ping Reply	Number of Ping replies generated. (N/A to OC192-3)	txPingReply
Transmit Ping Request	Number of Ping requests received. (N/A to OC192-3)	txPingRequest
Asynchronous Frames Sent	The number of frames sent as a result of user request	asynchronousFramesSent
Scheduled Frames Sent	The number of frames originating from the stream engine.	scheduledFramesSent
Port CPU Frames Sent	The number of frames originating from the port's CPU as opposed to the stream engine.	portCPUFramesSent
DHCPv4		
DHCPv4 Discovered Messages Sent	The number of Discovered messages sent	dhcpV4DiscoveredMessagesSent
DHCPv4 Offers Received	The number of Offer messages received.	dhcpV4OffersReceived
DHCPv4 Requests Sent	The number or Request messages sent.	dhcpV4RequestsSent
DHCPv4 ACKs Received	The number or ACK messages received.	dhcpV4AcksReceived
DHCPv4 NACKs Received	The number of NACK messages received	dhcpV4NacksReceived
DHCPv4 Releases Sent	The number of Release messages sent.	dhcpV4ReleasesSent
DHCPv4 Enabled Interfaces	The number of enabled interfaces.	dhcpV4EnabledInterfaces
DHCPv4 Addresses Learned	The number of address learned.	dhcpV4AddressesLearned
DHCPv6		
DHCPv6 Solicits Sent	The number of DHCPv6 Solicits Sent	dhcpV6SolicitsSent
DHCPv6 Advertisements Received	The number of DHCPv6 Advertisements Received.	dhcpV6AdvertisementsReceived
DHCPv6 Requests Sent	The number of DHCPv6 Requests Sent.	dhcpV6RequestsSent
DHCPv6 Declines Received	The number of DHCPv6 Declines Received.	dhcpV6DeclinesSent
DHCPv6 Replies Received	The number of DHCPv6 Replies Received.	dhcpV6RepliesReceived
DHCPv6 Releases Sent	The number of DHCPv6 Releases Sent.	dhcpV6ReleasesSent
DHCPv6 Enabled Interfaces	The number of DHCPv6 Enabled Interfaces.	dhcpV6EnabledInterfaces
DHCPv6 Addresses Learned	The number of DHCPv6 Addresses Learned.	dhcpV6AddressesLearned

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
Ethernet OAM Stats		
EOAM Information PDUs Sent	The number of OAM Information PDUs Sent	ethernetOAMInformation PDUs Sent
EOAM Information PDUs Received	The number of OAM Information PDUs Received	ethernetOAMInformation PDUs Received
EOAM Event Notification PDUs Received	The number of OAM Event Notification PDUs Received	ethernetOAMEventNotification PDUsReceived
EOAM Loopback Control PDUs Received	The number of OAM Loopback Control PDUs Received	ethernetOAMLoopback Control PDUsReceived
EOAM Organization PDUs Received	The number of OAM Organization PDUs Received	ethernetOAMOrgPDUs Received
EOAM Variable Request PDUs Received	The number of OAM Variable Request PDUs Received	ethernetOAMVariable Request PDUsReceived
EOAM Variable Response PDUs Received	The number of OAM Variable Response PDUs Received	ethernetOAMVariable Response PDUsReceived
EOAM Unsupported PDUs Received	The number of OAM Unsupported PDUs Received	ethernetOAMUnsupported PDUs Received
BGP		
BGP Sessions Configured	The number of BGP4 sessions that were configured.	bgpTotalSessions
BGP Sessions Established	The number of configured BGP4 sessions that established adjacencies.	bgpTotalSessionsEstablished
IGMP		
Received IGMP Frames	The number of IGMP frames received by all logical hosts after being internally broadcast (For newer IGMPv3 emulation).	rxIgmppFrames
Transmitted IGMP Frames	The number of IGMP frames transmitted. (For newer IGMPv3 emulation).	txIgmppFrames
ISIS		
ISIS L1 Sessions Configured	The total number of level 1 configured sessions.	isisSessionsConfiguredL1
ISIS L2 Sessions Configured	The total number of level 2 configured sessions.	isisSessionsConfiguredL2
ISIS L1 Sessions Up	The total number of level 1 configured sessions that are fully up.	isisSessionsUpL1
ISIS L2 Sessions Up	The total number of level 2 configured sessions that are fully up.	isisSessionsUpL2
MLD		

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
MLD Frames Received	The number of MLD frames received by all logical hosts after being internally broadcast.	rxMldFrames
MLD Frames Transmitted	The number of MLD frames transmitted.	txMldFrames
OSPF		
OSPF Total Sessions	The number of OSPF sessions that were configured.	ospfTotalSessions
OSPF Neighbors in Full State	The number of OSPF neighbors that are fully up.	ospfFullNeighbors
OSPFv3		
OSPFv3 Sessions Configured	The number of OSPFv3 sessions that were configured.	ospfv3SessionsConfigured
OSPFv3 Neighbors in Full State	The number of OSPFv3 neighbors that are fully up.	ospfv3SessionsUp
PIM-SM		
PIM-SM Routers Configured	The number of configured PIM-SM routers.	pimsmRoutersConfigured
PIM-SM Routers Running	The number of PIM-SM routers in the run state.	pimsmRoutersRunning
PIM-SM Learned Neighbors	The number of learned PIM-SM neighbors.	pimsmNeighborsLearned
RSVP		
RSVP Ingress LSPs Configured	The number of ingress LSPs configured.	rsvpIngressLSPsConfigured
RSVP Ingress LSPs Up	The number of ingress LSPs configured and running.	rsvpIngressLSPsUp
RSVP Egress LSPs Up	The number of egress LSPs configured and running.	rsvpEgressLSPsUp
LDP		
LDP Sessions Configured	The number of LDP sessions configured for targeted peers.	ldpSessionsConfigured
LDP Sessions Up	The number of LDP sessions configured and running with targeted peers.	ldpSessionsUp
LDP Basic Sessions Up	The number of LDP sessions up for broadcast peers.	ldpBasicSessionsUp
Ethernet		
Fragments & Rate	A counter that counts the number of frames less than 64 bytes in size with a bad FCS.	fragments

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
Undersize & Rate	A counter that counts the number of frames less than 64 bytes in size with a good FCS.	undersize
Oversize & Rate	A counter that counts the number of frames greater than 1518 bytes in size. The following modules count oversize packets with both good and bad FCSs: 10/100 TX, and 10/100 MII. All other modules include oversize packets with a good FCSs only.	oversize
CRC Errors & Rate	A counter that counts all valid size frames that have CRC errors.	fcsErrors
Vlan Tagged Frames & Rate	A counter that counts the number of VLAN tagged frames.	vlanTaggedFrames Received
Line Errors & Rate	A counter that counts the number of 4B/5B (100Mbps) or 8B/10B (Gigabit) symbol errors.	symbolErrors
Flow Control Frames & Rate	A counter that counts the number of PAUSE frames received. This counter only increments when Flow Control is enabled for that port (using the port properties dialog).	flowControlFrames
10/100		
Alignment Errors & Rate	A counter that counts all frames that are not an integer multiple of 8 bits and have an invalid FCS. The frame is truncated to the nearest octet and then the FCS is validated. If the FCS is bad, then this frame is counted as an alignment error.	alignmentErrors
Dribble Errors & Rate	A counter that counts all frames that are not an integer multiple of 8 bits and have a valid FCS. The frame is truncated to the nearest octet and then the FCS is validated. If the FCS is good, then this frame is counted as a dribble bit error.	dribbleErrors
Collisions & Rate	A counter that counts all occurrences (only one count per frame or fragment) of the Collision Detect signal from the physical layer controller that are not late collisions.	collisions
Late Collisions & Rate	A counter that counts all collisions that occur after the 512 th bit time (preamble included) or after the 56 th byte.	lateCollisions
Collision Frames & Rate	A counter that counts the number of frames that were retransmitted due to one or more collisions.	collisionFrames

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
Excessive Collision Frames & Rate	A counter that counts the number of frames that were attempted to be sent but had 16 or more consecutive collisions.	excessiveCollisionFrames
Gigabit		
Oversize and CRC Errors & Rate	A counter that counts the number of frames greater than 1518 bytes in size with a bad FCS.	oversizeAndCrcErrors
Line Error Frames & Rate	A counter that counts the number of frames received that contain symbol errors.	symbolErrorFrames
Byte Alignment Error & Rate	A counter that counts the number of times that a comma character is detected to be out of alignment.	synchErrorFrames
POS		
Section LOS	'OK' or 'ALARM' during loss of signal. (See note 3 in Notes .)	sectionLossOfSignal
Section LOF	'OK' or 'ALARM' during loss of frame. (See note 3 in Notes .)	sectionLossOfFrame
Section BIP(B1) & Rate	The number of section bit interleaved parity errors.	sectionBip
Line AIS	'OK' or 'ALARM' during a line alarm indication signal condition. (See note 3 in Notes .)	lineAis
Line RDI	'OK' or 'ALARM' during a remote defect indication. (See note 3 in Notes .)	lineRdi
Line REI(FEBE) & Rate	A count of the number of remote error indicate conditions.	lineRei
Line BIP(B2) & Rate	The number of line bit interleaved parity errors.	lineBip
Path AIS	'OK' or 'ALARM' during a path alarm indication signal condition. (See note 3 in Notes .)	pathAis
Path RDI	'OK' or 'ALARM' during a path remote defect indication. (See note 3 in Notes .)	pathRdi
Path REI(FEBE) & Rate	A count of the number of path remote error indicate conditions.	pathRei
Path BIP(B3) & Rate	The number of path bit interleaved parity errors.	pathBip
Path LOP	'OK' or 'ALARM' during a loss of pointer condition. (See note 3 in Notes .)	pathLossOfPointer

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
Path PLM(C2)	Either 'OK' or 'ALARM' along with the current received path signal label byte. 'ALARM' occurs when a path signal label mismatch occurs. (See note 5 in Notes .)	pathPlm
Section BIP Errored Seconds	A count of the number of seconds during which (at any point during the second) at least one section layer BIP was detected.	sectionBipErroredSecs
Section BIP Severely Errored Seconds	A count of the number of seconds during which K or more Section layer BIP errors were detected, where K = 2,392 for OC-48 (per ANSI T1.231-1997).	sectionBipSeverlyErroredSecs
Section LOS Seconds	A count of the number of seconds during which (at any point during the second) at least one section layer LOS defect was present.	sectionLossOfSignalSecs
Line BIP Errored Seconds	A count of the seconds during which (at any point during the second) at least one Line layer BIP was detected.	lineBipErroredSecs
Line REI Errored Seconds	A count of the seconds during which at least one line BIP error was reported by the far end.	lineReiErroredSecs
Line AIS Alarmed Seconds	A count of the seconds during which (at any point during the second) at least one Line layer AIS defect was present.	lineAisAlarmSecs
Line RDI Unavailable Seconds	A count of the seconds during which the line is considered unavailable at the far end.	lineRdiUnavailableSec
Path BIP Errored Seconds	A count of the seconds during which (at any point during the second) at least one Path BIP error was detected.	pathBipErroredSecs
Path REI Errored Seconds	A count of the seconds during which (at any point during the second) at least one STS Path error was reported by the far end.	pathReiErroredSecs
Path AIS Alarmed Seconds	A count of the seconds during which (at any point during the second) an AIS defect was present)	pathAisAlarmSec
Path AIS Unavailable Seconds	A count of the seconds during which the STS path was considered unavailable.	pathAisUnavailableSecs
Path RDI Unavailable Seconds	A count of the seconds during which the STS path was considered unavailable at the far end.	pathRdiUnavailableSec
Input Signal Strength (dB)	(OC-192) This statistic monitors the receive optical input power. (See note 8 in Notes)	inputSignalStrength

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
POS K1 Byte	Monitors the k1 status byte in SONET Headers.	posK1byte
POS K2 Byte	Monitors the k1 status byte in SONET Headers.	posK2byte
<u>SRP</u>		
SRP Data Frames Received	The number of data frames received. IPv4 frames fall in this category.	srpDataFramesReceived
SRP Discovery Frames Received	The number of discovery type frames received.	srpDiscoveryFramesReceived
SRP IPS Frames Received	The number of IPS type frames received.	srpIpsFramesReceived
SRP Header Parity Errors	The number of SRP frames received with SRP header parity error. This includes all frame types.	srpParityErrors
SRP Usage Frames Received	The number of usage frames received with good CRC, good header parity, and only those that match the MAC address set for the SRP's port. Bad CRC frames, frames with header errors or those with other MAC addresses are received but not counted.	srpUsageFramesReceived
SRP Usage Frames Sent	The number of usage frames sent. These are sent periodically to keep the link alive.	srpUsageFramesSent
SRP Usage Status	If the number of consecutive timeouts exceeds the Keep Alive threshold, this status changes to FAIL. Otherwise shows OK.	srpUsageStatus
SRP Usage Timeouts	The number of times a usage frame was not received within the time period.	srpUsageTimeouts
<u>RPR</u>		
RPR Discovery Frames Received	The number of RPR discovery frames received.	rprDiscoveryFramesReceived
RPR Data Frames Received	The number of RPR encapsulated data frames received.	rprDataFramesReceived
RPR Fairness Frames Received	The number of RPR fairness frames received.	rprFairnessFramesReceived
RPR Fairness Frames Sent	The number of RPR fairness frames sent.	rprFairnessFramesSent
RPR Timeout Events	The number of timeouts that occurred waiting for RPR fairness frames.	rprFairnessTimeouts
RPR Header CRC Errors	The number of RPR frames received with header CRC errors.	rprHeaderCrcErrors
RPR OAM Frames Received	The number of RPR OAM frames received.	rprOamFramesReceived

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
RPR Payload CRC Errors	The number of RPR frames received with payload CRC errors.	rprPayloadCrcErrors
RPR Protection Frames Received	The number of RPR protection frames received.	rprProtectionFramesReceived
RPR Idle Frames Received	The number or RPR idle frames received.	rprIdleFramesReceived
GFP		
GFP Idle Frames	The number of GFP idle frames received.	gfpIdleFrames
GFP Sync State	The GFP sync state.	gfpSyncState
GFP SYNC/HUNT Transitions	The number of Sync/Hunt state transition frames received.	gfpSyncHuntTransitions
GFP eHEC Errors	Number of GFP extension header HEC errors detected.	gfpeHecErrors
GFP Payload FCS Errors	Number of payload FCS errors detected.	gfpPayloadFcsErrors
GFP Receive Bandwidth	The measured receive GFP bandwidth, in Mbps.	gfpRxBandwidth
GFP tHEC Errors	Number of GFP type header HEC errors detected.	gfptHecErrors
BERT		
BERT Status	For BERT: The status of the connection. 'Locked' when the receiving interface locks onto the data pattern. (See note 1 in Notes)	bertStatus
BERT Bits Sent	For BERT, it is the total number of bits sent.	bertBitsSent
BERT Bits Received	For BERT, it is the total number of bits received.	bertBitsReceived
BERT Bit Errors Sent	For BERT, it is the total number of bit errors sent.	bertBitErrorsSent
BERT Bit Errors Received	For BERT, it is the total number of bit errors received.	bertBitErrorsReceived
BERT Bit Error Ratio	For BERT, it is the ratio of the number of errored bits compared to the total number of bits transmitted.	bertBitErrorRatio
BERT Errored Blocks	For BERT—(EB) Number of blocks containing at least one errored second.	bertErroredBlocks
BERT Errored Seconds	For BERT—(ES) Number of seconds containing at least one errored block or a defect.	bertErroredSeconds
BERT Errored Second Ratio	For BERT—(ESR) the ratio of Errored Seconds (ES) to the total seconds.	bertErroredSecondRatio

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
BERT Severely Errored Seconds	For BERT—(SES) Number of seconds with 30% or more of the errored blocks or a defect.	bertSeverelyErroredSeconds
BERT Severely Errored Second Ratio	For BERT—(SESR) the ratio of Severely Errored Seconds (SESs) to the total seconds in available time.	bertSeverelyErroredSecondsRatio
BERT Error Free Seconds	For BERT—(EFS) Number of seconds with no errored blocks or defects.	bertErrorFreeSeconds
BERT Available Seconds	For BERT—(AS) Number of seconds which have occurred during Available Periods.	bertAvailableSeconds
BERT Unavailable Seconds	For BERT—(UAS) Number of seconds which have occurred during Unavailable Periods.	bertUnavailableSeconds
BERT Block Error State	For BERT—Available Period or Unavailable Period, determined according to the running count and calculation of seconds in various error conditions. A min. of 10 non-SESs must pass for the state to change from Unavailable to Available. A min. of 10 SESs must pass for the state to change from Available to Unavailable. (See note 4 in <i>Notes</i> .)	bertBlockErrorState
BERT Background Block Errors	For BERT—(BBE) The number of errored blocks not occurring as part of a Severely Errored Second.	bertBackgroundBlockErrors
BERT Background Block Error Ratio	For BERT—(BBER) the ratio of Background Block Errors (BBEs) to the total number of blocks in available time.	bertBackgroundBlockErrorRatio
BERT Elapsed Test Time	For BERT—the elapsed test time, expressed in seconds.	bertElapsedTestTime
BERT Number Mismatched Zeros	The number of expected zeroes received as ones.	bertNumberMismatchedZeros
BERT Mismatched Zeros Ratio	The ratio of the number of expected zeroes received as ones to all bits.	bertismatchedZerosRatio
BERT Number Mismatched Ones	The number of expected ones received as zeroes.	bertNumberMismatchedOnes
BERT Mismatched Ones Ratio	The ratio of the number of expected ones received as zeroes to all bits.	bertMismatchedOnesRatio

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
Service Disruption		
	A service disruption is the period of time during which the service is unavailable while switching rings. The SONET spec calls for this to be less than 50 ms.	
Last Service Disruption Time (ms)	The length of the last service disruption that occurred, expressed in milliseconds.	bertLastServiceDisruptionTime
Min Service Disruption Time (ms)	The shortest service disruption that occurred, expressed in milliseconds.	bertMinServiceDisruptionTime
Max Service Disruption Time (ms)	The longest service disruption that occurred, expressed in milliseconds.	bertMaxServiceDisruptionTime
Cumulative Service Disruption Time (ms)	The total service disruption time encountered, expressed in milliseconds.	bertServiceDisruptionCumulative
DCC		
DCC Bytes Received	The number of DCC bytes received.	dccBytesReceived
DCC Bytes Sent	The number of DCC bytes sent.	dccBytesSent
DCC CRC Receive Errors	The number of DCC CRC errors received.	dccCrcErrorsReceived
DCC Frames Received	The number of DCC frames received.	dccFramesReceived
DCC Frames Sent	The number of DCC frames sent.	dccFramesSent
DCC Framing Errors Received	The number of DCC framing errors received.	dccFramingErrorsReceived
Link Fault Signalling		
Insertion State	The current state of link fault insertion. 0 = not inserting, 1 = inserting.	insertionState
Link Fault State	The current state of link fault detection on a port. 0 = no fault, 1 = local fault, 2 = remote fault.	linkFaultState
Local Faults	The number of local faults detected.	localFaults
Remote Faults	The number of remote faults detected.	remoteFaults
CDL		
	Converged Data Layer	
CDL Error Frames Received	The number of CDL error frames received.	cdlErrorFramesReceived
CDL Good Frames Received	The number of good CDL frames received.	cdlGoodFramesReceived.
FEC		
	Forwarding Error Correction	
FEC Corrected 0s Count	Number of 0 errors (1s changed to 0s) that have been corrected.	fecCorrected0sCount
FEC Corrected 1s Count	Number of 1 errors (0s changed to 1s) that have been corrected.	fecCorrected1sCount

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
FEC Corrected Bits Count	Number of flipped bits errors (0s changed to 1s and vice versa) that have been corrected.	fecCorrectedBitsCount
FEC Corrected Bytes Count	Number of bytes that have had errors corrected.	fecCorrectedBytesCount
FEC Uncorrectable Subrow Count	Number of subrows that have had uncorrectable errors.	fecUncorrectableSubrowCount
OC192		
Temperature		
DMA Chip Temperature (C)	(OC-192 - Temperature Sensors Stats) Temperature of the DMA chip.	dMATemperature
Capture Chip Temperature (C)	(OC-192 - Temperature Sensors Stats) Temperature of the Capture chip.	captureTemperature
Latency Chip Temperature (C)	(OC-192 - Temperature Sensors Stats) Temperature of the Latency chip.	latencyTemperature
Background Chip Temperature (C)	(OC-192 - Temperature Sensors Stats) Temperature of the Background chip.	backgroundTemperature
Overlay Chip Temperature (C)	(OC-192 - Temperature Sensors Stats) Temperature of the Overlay chip.	overlayTemperature
Front End Chip Temperature (C)	(OC-192 - Temperature Sensors Stats) Temperature of the Front End Chip.	frontEndTemperature
Scheduler Chip Temperature (C)	(OC-192 - Temperature Sensors Stats) Temperature of the Scheduler Chip.	scheduleTemperature
Plm Internal Chip Temperature 1 (C)	(OC-192 - Temperature Sensors Stats) Internal temperature of temperature measuring device #1.	plmDevice1InternalTemperature
Plm Internal Chip Temperature 2 (C)	(OC-192 - Temperature Sensors Stats) Internal temperature of temperature measuring device #2.	plmDevice2InternalTemperature
Plm Internal Chip Temperature 3(C)	(OC-192 - Temperature Sensors Stats) Internal temperature of temperature measuring device #3.	plmDevice3InternalTemperature
Fom Port Temperature (C)	(OC-192 - Temperature Sensors Stats) Temperature for one of the sensors on the Fiber optic module (Fom).	fobPort1FpgaTemperature fobPort2FpgaTemperature
Fom Board Temperature (C)	(OC-192 - Temperature Sensors Stats) Temperature for one of the sensors on the Fiber optic module (Fom).	fobBoardTemperature
Fom Internal Temperature (C)	(OC-192 - Temperature Sensors Stats) Temperature for one of the sensors on the Fiber optic module (Fom).	fobDevice1InternalTemperature

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
VSR	The statistics in this sub-section relate to all VSR channels. See VSR per Channel statistics for further per-channel statistics.	
Rx Channel Protection Disabled	The status of the channel protection on the receiving interface.	rxChannelProtectionDisabled ⁸
Rx Channel Skew Error	The status of the channel skew error detection on the receiving interface.	rxChannelSkewError ⁸
RX Channel Skew First	The channel number of the earliest channel to arrive on the receiving interface. If more than one channel arrives at the same time, Channel #1 has the highest priority and so on.	rxChannelSkewFirst ⁸
Rx Channel Skew Last	The channel number of the latest channel to arrive on the receiving interface. If more than one channel arrives at the same time, Channel #1 has the highest priority, and so on.	rxChannelSkewLast ⁸
Rx Channel Skew Max	This counter increments every time the channel skew is equal to or greater than the maximum channel skew.	rxChannelSkewMax ⁸
Rx Channel Swapped	Indicates one or more channel swap errors.	rxChannelSwapped ⁸
Rx Code Word Violation Error	Indicates one or more 8b/10b code word violation errors.	rxCodeWordViolationError ⁸
Rx CRC Corrected Errors	The number of corrected CRC block errors accumulated on the receiving interface.	rxCrcCorrectedErrorCounter ⁸
Rx CRC Correction Disabled	Indicates the status of the CRC correction on the receiving interface.	rxCrcCorrectionDisabled ⁸
Rx CRC Error	Indicates one or more detected CRC errors.	rxCrcError ⁸
Rx CRC Uncorrected Errors	The number of uncorrected CRC block errors accumulated on the receiving interface.	rxCrcUnCorrectedErrorCounter ⁸
Rx Hardware Error	The number of hardware errors detected on the receive side.	rxHardwareError ⁸
Rx Loss Of Synchronization Counter	Indicates the number of times that a protection channels was in the loss of synchronization state.	rxLossOfSynchronizationCounter ⁸
Rx Multi-loss Of Synchronization Counter	Indicates the number of times that two or more data or protection channels were in the Loss of Synchronization state.	rxMultiLossOfSynchronizationCounter ⁸

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
Rx Multi-loss Of Synchronization Status	Indicates that two or more data or protection channels are in the Loss of Synchronization state.	rxMultiLossOfSynchronizationStatus ⁸
Rx Out of Frame Counter	Indicates the number of frame errors for the receiving interface.	rxOutOfFrameCounter ⁸
Rx Out of Frame Status	Indicates one or more out of frame errors for the receiving interface.	rxOutOfFrameStatus ⁸
Rx Section BIP Error Counter	The number of Section BIP errors detected on the receiving interface.	rxSectionBipErrorCounter ⁸
Tx Hardware Error Counter	The number of hardware errors detected on the transmit side.	txHardwareError ⁸
Tx Out Of Frame Counter	The number of out of frame errors detected on the transmit side.	txOutOfFrameCounter ⁸
Tx Out of Frame Status	Indicates one or more out of frame errors for the transmit interface.	txOutOfFrameStatus ⁸
Tx Section BIP Error Counter	The number of Section Bit Interleaved Parity (BIP) errors which have been detected on the transmit interface.	txSectionBipErrorCounter ⁸
VSR per Channel	The statistics in this sub-section relate to a specific VSR channel.	
Rx Code Word Violation Counter	This per-channel statistic indicates the number of codeword violations detected on the receiving channel interface. Codeword violations include running disparity errors, undefined codewords, and any control characters besides K28.5.	rxCodeWordViolationCounter ⁹
Rx CRC Error Counter	This per-channel statistic indicates the number of corrected and uncorrected errors on the receive interface.	rxCrcErrorCounter ⁹
Rx Loss Of Synchronization Status	This per-channel statistic indicates the loss of synchronization status of the receiving interface.	rxLossOfSynchronization ⁹
Rx Out of Frame Status	This per-channel statistic indicates the out of frame status of the receiving interface for a particular channel.	rxOutOfFrame ⁹
10 Gig		
LSM		
Local Ordered Sets Sent	The number of local ordered sets sent. Ordered sets are part of Link Fault Signaling, and can be configured in the <i>Link Fault Signaling</i> tab.	localOrderedSetsSent

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
Local Ordered Sets Received	The number of local ordered sets received. Ordered sets are part of Link Fault Signaling, and can be configured in the <i>Link Fault Signaling</i> tab.	localOrderedSetsReceived
Remote Ordered Sets Sent	The number of remote ordered sets sent. Ordered sets are part of Link Fault Signaling, and can be configured in the <i>Link Fault Signaling</i> tab.	remoteOrderedSetsSent
Remote Ordered Sets Received	The number of remote ordered sets received. Ordered sets are part of Link Fault Signaling, and can be configured in the <i>Link Fault Signaling</i> tab.	remoteOrderedSetsReceived
Custom Ordered Sets Sent	The number of custom ordered sets sent. Ordered sets are part of Link Fault Signaling, and can be configured in the <i>Link Fault Signaling</i> tab.	customOrderedSetsSent
Custom Ordered Sets Received	The number of custom ordered sets received. Ordered sets are part of Link Fault Signaling, and can be configured in the <i>Link Fault Signaling</i> tab.	customOrderedSetsReceived
Frames Received with Coding Errors	The number of frames received with coding errors.	codingErrorFramesReceived
Frames Received with /E/ error Character	The number of frames received with DUT labeled errors received.	eErrorCharacterFramesReceived
Dropped Frames	The number of dropped frames.	droppedFrames
Pause Frame		
Pause Acknowledge	The number of clocks for which transmit has been paused.	pauseAcknowledge
Pause End Frames	The number of pause frames received with a quanta of 0.	pauseEndFrames
Pause Overwrite	The number of pause frames received while transmit was paused with a quanta not equal to 0.	pauseOverwrite
Temperature		
Lan Transmit FPGA Temperature	For the 10Gig LAN board, the temperature at the transmit FPGA.	10GigLanTxFpgaTemperature
Lan Receive FPGA Temperature	For the 10Gig LAN board, the temperature at the receive FPGA.	10GigLanRxFpgaTemperature
ATM and ATM/POS		
ATM AAL5 Bytes Received	The number of AAL5 bytes received.	atmAal5BytesReceived
ATM AAL5 Bytes Sent	The number of AAL5 bytes sent.	atmAal5BytesSent

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
ATM AAL5 CRC Error Frames	The number of AAL5 frames received with CRC errors.	atmAal5CrcErrorFrames
ATM AAL5 Frames Received	The number of AAL5 frames received.	atmAal5FramesReceived
ATM AAL5 Frames Sent	The number of AAL5 frames sent.	atmAal5FramesSent
ATM AAL5 Length Error Frames	The number of AAL5 frames received with length errors.	atmAal5LengthError Frames
ATM AAL5 Timeout Error Frames	The number of AAL5 frames received with timeout errors.	atmAal5TimeoutError Frames
ATM Cells Received	The number of ATM cells received.	atmCellsReceived
ATM Cells Sent	The number of ATM cells sent.	atmCellsSent
ATM Corrected HCS Error Count	The number of AAL5 frames received with HCS errors that were corrected.	atmCorrectedHcsError Count
ATM Idle Cell Count	The number of idle ATM cells sent.	atmIdleCellCount
ATM Scheduled Cells Sent	The number of scheduled (non-idle) ATM cells sent.	atmScheduledCellsSent
ATM Uncorrected HCS Error Count	The number of AAL5 frames received with HCS errors that were not corrected.	atmUncorrectedHcsError Count
ATM Unregistered Cells	The number of unregistered ATM cells that were received.	atmUnregisteredCells Received
OAM Tx Cells	Number of ATM OAM cells transmitted.	atmOamTxCells
OAM Tx Bytes	Number of ATM OAM bytes transmitted.	atmOamTxBytes
OAM Tx Fault Management AIS	Number of ATM OAM Fault Management AIS cells transmitted.	atmOamTxFaultMgmtAIS
OAM Tx Fault Management RDI	Number of ATM OAM Fault Management RDI cells transmitted.	atmOamTxFaultMgmtRDI
OAM Tx Fault Management CC	Number of ATM OAM Fault Management CC cells transmitted.	atmOamTxFaultMgmtCC
OAM Tx Fault Management LB	Number of ATM OAM Fault Management LB cells transmitted.	atmOamTxFaultMgmtLB
OAM Tx Fault ActDeact CC	Number of ATM OAM ActDeact cells transmitted.	atmOamTxActDeactCC
OAM Rx Good Cells	Number of ATM OAM good cells received.	atmOamRxGoodCells
OAM Rx Bytes	Number of ATM OAM bytes received.	atmOamRxBytes
OAM Rx Fault Management AIS	Number of ATM OAM Fault Management AIS cells received.	atmOamRxFaultMgmtAIS
OAM Rx Fault Management RDI	Number of ATM OAM Fault Management RDI cells received.	atmOamRxFaultMgmtRDI

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
OAM Rx Fault Management CC	Number of ATM OAM Fault Management CC cells received.	atmOamRxFaultMgmtCC
OAM Rx Fault Management LB	Number of ATM OAM Fault Management LB cells received.	atmOamRxFaultMgmtLB
OAM Rx Bad Cells	Number of ATM OAM bad cells received.	atmOamRxBadCells
OAM Rx ActDeact CC	Number of ATM OAM ActDeact cells transmitted.	atmOamRxActDeactCC
Ethernet CRC	The Ethernet CRC, representing AAL5 CRCs.	ethernetCrc
Power Over Ethernet		
PoE Status	The PoE status.	poeStatus
PoE Input Voltage	The PoE input voltage.	poeInputVoltage
PoE Input Current	The PoE input current.	poeInputCurrent
PoE Input Power	The PoE input power.	poeInputPower
PoE Amplitude Arm Status	The state of the current signal acquisition arming for amplitude measurements.	poeAmplitudeArmStatus
PoE Amplitude Done Status	Indicates whether the signal acquisition of the amplitude measurement has occurred.	poeAmplitudeDoneStatus
PoE Amplitude Time Status	The state of the current signal acquisition arming for time measurements.	poeTimeArmStatus
PoE Amplitude Time Status	Indicates whether the signal acquisition of the time measurement has occurred.	poeTimeDoneStatus
PoE Trigger Amplitude DC Amps	The DC amps of the measured PoE amplitude measurements.	poeTriggerAmplitudeDC Amps
PoE Trigger Amplitude DC Volts	The DC voltage of the measured PoE amplitude measurements.	poeTriggerAmplitudeDC Volts
PoE Active Input	Displays the type of PSE in use, Alt. A or Alt B.	poeActiveInput
PoE Temperature	The temperature of the PoE port, in Celsius.	poeTemperature
PoE AutoCalibration	The stage in the port diagnostic test.	poeAutocalibration
Stream Extraction Module		
Bytes from Application	The number of bytes received on either port 2 or 3 from the application.	bytesFromApplication
Packets from Application	The number of packets received on either port 2 or 3 from the application.	packetsFromApplication

Table B-6. Statistics Counters

Counter	Interpretation	Internal Basename
Bytes from Port 2	The number of bytes received on the monitor port from port 2.	monitorBytesFromPort2
Bytes from Port 3	The number of bytes received on the monitor port from port 3.	monitorBytesFromPort3
Packets from Port 2	The number of packets received on the monitor port from port 2.	monitorPacketsFromPort2
Packets from Port 3	The number of packets received on the monitor port from port 3.	monitorPacketsFromPort3

Notes

Table B-7. Notes for Statistics Counters

NOTE Choices Displayed for Statistic

1	Locked - All Ones
	Locked - Inverted Alternating One/Zero
	Locked - Inverted User Defined Pattern
	Locked - Inverted 2 ³¹ Linear Feedback Shift Reg
	Locked - Inverted 2 ¹¹ Linear Feedback Shift Reg
	Locked - Inverted 2 ¹⁵ Linear Feedback Shift Reg
	Locked - Inverted 2 ²⁰ Linear Feedback Shift Reg
	Locked - Inverted 2 ²³ Linear Feedback Shift Reg
	Locked - All Zero
	Locked - Alternating One/Zero
	Locked - User Defined Pattern
	Locked - 2 ¹¹ Linear Feedback Shift Reg
	Locked - 2 ¹⁵ Linear Feedback Shift Reg
	Locked - 2 ²⁰ Linear Feedback Shift Reg
	Locked - 2 ²³ Linear Feedback Shift Reg
	Not Locked
2	Demo Mode
	Link Up
	Link Down
	Loopback
	WriteMii
	Restart AutoNegotiate
	End RestartAutoNegotiate
	AutoNegotiate
	WriteMii Failed
	No Transceiver
	Invalid PHY Address
	Read LinkPartner
	No LinkPartner
	FPGA Download Failed

Table B-7. Notes for Statistics Counters

NOTE Choices Displayed for Statistic

	No GBIC Module
	Fifo Reset
	Fifo Reset Complete
	PPP Off
	PPP Up
	PPP Down
	PPP Init
	PPP WaitForOpen
	PPP AutoNegotiate
	PPP Close
	PPP Connect
	Loss of Frame
	Loss of Signal
	StateMachine Failure
	PPP RestartNegotiation
	PPP RestartNegotiation Init
	PPP RestartNegotiation WaitForOpen
	PPP RestartNegotiation WaitForClose
	PPP RestartNegotiation Finish
	LP Boot Failed
	PPP Disabled - LOF
	Ignore Link
	Temperature Alarm
	PPP Closing
	PPP LCP Negotiate
	PPP Authenticate
	PPP NCP Negotiate
3	OK
	Alarm
	' '
	Defect

Table B-7. Notes for Statistics Counters

NOTE Choices Displayed for Statistic

4	Unavailable Period Available Period
5	OK OK (%) Alarm (%) ' '
6	OC-3c OC-12c OC-48c OC-192c 10GE WAN 10 Mbps 100 Mbps 1000 Mbps
7	Full Half
8	Loss of Signal [-] %d.%d

Table B-7. Notes for Statistics Counters

NOTE Choices Displayed for Statistic	
8	The statistics in this section must be accessed using the <i>vsrStat</i> command in TCL and the <i>TCLvsrStat</i> class in C++.
9	The statistics in this section must be accessed using the <i>vsrStat</i> command in TCL and the <i>TCLvsrStat</i> class in C++. In addition, the desired channel must be set with the <i>getChannel</i> sub-command (TCL) or method (C++).

Table B-8. Statistics for 10/100 Cards

	Normal				Qos	StreamTrigger			
	Capture	PacketGroup	RxTcpRoundTrip	RxFirstTimeStamp		Capture	PacketGroup	RxTcpRoundTrip	RxFirstTimeStamp
Type: User Configurable									
UserDefinedStat1	X	X	X	X		X	X	X	X
UserDefinedStat2	X	X	X	X		X	X	X	X
CaptureTrigger	X		X			X		X	
CaptureFilter	X		X			X		X	
StreamTrigger1						X			
StreamTrigger2						X			
Type: States									
Link	X	X	X	X	X	X	X	X	X
LineSpeed	X	X	X	X	X	X	X	X	X
DuplexMode	X	X	X	X	X	X	X	X	X
TransmitState	X	X	X	X	X	X	X	X	X

Table B-8. Statistics for 10/100 Cards

	Normal				Qos	StreamTrigger			
	Capture	PacketGroup	RxTcpRoundTrip	RxFirstTimeStamp		Capture	PacketGroup	RxTcpRoundTrip	RxFirstTimeStamp
CaptureState	X	X	X	X	X	X	X	X	X
PauseState	X	X	X	X	X	X	X	X	X
Type: Common									
FramesSent	X	X	X	X	X	X	X	X	X
FramesReceived	X	X	X	X	X	X	X	X	X
BytesSent	X	X	X	X	X	X	X	X	X
BytesReceived	X	X	X	X		X	X	X	X
FcsErrors	X	X	X	X	X	X	X	X	X
BitsReceived	X	X	X	X		X	X	X	X
BitsSent	X	X	X	X	X	X	X	X	X
PortCpuStatus									
PortCpuDodStatus									
Type: Transmit Duration									
TransmitDuration	X	X		X	X	X	X		X
Type: Quality of Service									
QualityOfService0					X				
Type: Ethernet									
Fragments	X	X	X	X	X	X	X	X	X
Undersize	X	X	X	X	X	X	X	X	X
Oversize	X	X	X	X	X	X	X	X	X
VlanTaggedFramesRx	X		X					X	
FlowControlFrames	X	X	X	X	X	X	X	X	X
Type: 10/100									
AlignmentErrors	X	X	X	X	X	X	X	X	X

Table B-8. Statistics for 10/100 Cards

	Normal				Qos	StreamTrigger			
	Capture	PacketGroup	RxTcpRoundTrip	RxFirstTimeStamp		Capture	PacketGroup	RxTcpRoundTrip	RxFirstTimeStamp
DribbleErrors	X	X	X	X		X	X	X	X
Collisions	X	X	X	X	X	X	X	X	X
LateCollisions	X	X	X	X	X	X	X	X	X
CollisionFrames	X	X	X	X	X	X	X	X	X
ExcessiveCollisionFrames	X	X	X	X	X	X	X	X	X
Type: 10/100 + Gigabit									
SymbolErrors	X								
OversizeAndCrcErrors									

Table B-9. Statistics for 10/100 TXS Modules

	Normal						Qos				StreamTrigger						ModeChecksumErrors						ModeDataIntegrity								
	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	
Type: User Configurable																															
UserDefinedStat1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
UserDefinedStat2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Table B-9. Statistics for 10/100 TXS Modules

	Normal						Qos				StreamTrigger						ModeChecksumErrors						ModeDataIntegrity								
	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	
CaptureTrigger	X	X	X		X	X						X	X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X
CaptureFilter	X	X	X		X	X						X	X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X
StreamTrigger1												X	X		X	X															
StreamTrigger2												X	X		X	X															
Type: States																															
Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LineSpeed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DuplexMode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TransmitState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CaptureState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PauseState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Type: Common																															
FramesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FramesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BytesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BytesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FcsErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BitsReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BitsSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PortCpuStatus	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Table B-9. Statistics for 10/100 TXS Modules

	Normal						Qos				StreamTrigger						ModeChecksumErrors						ModeDataIntegrity							
	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup
PortCpuDodStatus	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Type: Transmit Duration																														
TransmitDuration	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Type: Quality of Service																														
QualityOfService0							X	X	X	X																				
Type: Checksum Stats																														
IpPackets																		X	X		X		X							
UdpPackets																		X	X		X		X							
TcpPackets																		X	X		X		X							
IpChecksumErrors																		X	X		X		X							
UdpChecksumErrors																		X	X		X		X							
TcpChecksumErrors																		X	X		X		X							
Type: Data Integrity																														
DataIntegrityFrames				X										X						X						X				
DataIntegrityErrors				X										X						X						X				
Type: Sequence Checking																														
SequenceFrames						X										X						X					X			
SequenceErrors						X										X						X					X			
Type: Ethernet																														
Fragments	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Table B-9. Statistics for 10/100 TXS Modules

	Normal						Qos				StreamTrigger						ModeChecksumErrors						ModeDataIntegrity							
	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup
Undersize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Oversize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VlanTaggedFramesRx	X	X	X		X		X						X												X	X		X		X
FlowControlFrames	X	X	X		X		X	X	X	X	X	X	X		X			X							X	X		X		X
Type: 10/100																														
AlignmentErrors	X	X	X		X		X						X												X	X		X		X
DribbleErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Collisions	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LateCollisions	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CollisionFrames	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ExcessiveCollisionFrames	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Type: 10/100 + Gigabit																														
SymbolErrors																														
OversizeAndCrcErrors	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Table B-10. Statistics for 10/100/1000 TXS, 10/100/1000 XMS(R)12, 1000 SFPS4, and 1000STXS24 Cards

Statistics Mode	Normal					Qos			StreamTrigger					ModeChecksum Errors					ModeData Integrity					
	Receive Mode	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeWidePacketGroup
Type: User Configurable																								
UserDefinedStat1	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
UserDefinedStat2	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CaptureTrigger	X		X		X				X		X	X	X	X	X		X	X	X	X			X	X
CaptureFilter	X		X		X				X		X	X	X	X	X		X	X	X	X			X	X
StreamTrigger1									X					X										
StreamTrigger2									X					X										
Type: States																								
Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LineSpeed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DuplexMode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TransmitState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CaptureState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PauseState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Type: Common																								
FramesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FramesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BytesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Table B-10. Statistics for 10/100/1000 TXS, 10/100/1000 XMS(R)12, 1000 SFPS4, and 1000STXS24 Cards

Statistics Mode	Normal					Qos			StreamTrigger					ModeChecksum Errors					ModeData Integrity						
	Receive Mode	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	
BytesReceived	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FcsErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BitsReceived	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BitsSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PortCpuStatus					X		X	X					X					X						X	
PortCpuDodStatus					X		X	X					X					X						X	
Type: Transmit Duration																									
TransmitDuration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Type: Quality of Service																									
QualityOfService0						X	X	X																	
Type: Checksum Stats																									
IPv4Packets															X	X									
UdpPackets															X	X									
TcpPackets															X	X									
IPv4ChecksumErrors															X	X									
UdpChecksumErrors															X	X									
TcpChecksumErrors															X	X									
Type: Data Integrity																									
DataIntegrityFrames				X							X						X					X			
DataIntegrityErrors				X							X						X					X			

Table B-10. Statistics for 10/100/1000 TXS, 10/100/1000 XMS(R)12, 1000 SFPS4, and 1000STXS24 Cards

Statistics Mode	Normal					Qos			StreamTrigger					ModeChecksum Errors					ModeData Integrity				
	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeWidePacketGroup
Type: Sequence Checking																							
SequenceFrames				X								X					X						X
SequenceErrors				X								X					X						X
Type: Ethernet																							
Fragments	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Undersize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Oversize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VlanTaggedFramesRx	X	X			X				X					X				X	X				X
FlowControlFrames	X	X			X	X	X	X	X			X		X				X	X				X
Type: 10/100																							
AlignmentErrors					X																		X
DribbleErrors					X		X	X					X					X					X
Collisions					X		X	X					X					X					X
LateCollisions					X		X	X					X					X					X
CollisionFrames					X		X	X					X					X					X
ExcessiveCollisionFrames					X		X	X					X					X					X
Type: Gigabit																							
SymbolErrorFrames	X	X	X	X					X	X	X	X			X	X	X		X	X	X	X	
SynchErrorFrames	X	X				X			X	X					X				X	X			

Table B-10. Statistics for 10/100/1000 TXS, 10/100/1000 XMS(R)12, 1000 SFPS4, and 1000STXS24 Cards

Statistics Mode	Normal					Qos			StreamTrigger					ModeChecksum Errors					ModeData Integrity					
	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	
Type: 10/100 + Gigabit																								
SymbolErrors	X	X							X						X				X	X				
OversizeAndCrcErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Table B-11. Statistics for 10/100/1000 LSM XMV(R)4/8/12/16, and 10/100/1000 ASM XMV12X Cards

Statistics Mode	Normal					Qos			StreamTrigger					ModeData Integrity				
	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup
Type: User Configurable																		
UserDefinedStat1	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X
UserDefinedStat2	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X

Table B-11. Statistics for 10/100/1000 LSM XMV(R)4/8/12/16, and 10/100/1000 ASM XMV12X Cards

Statistics Mode	Normal					Qos			StreamTrigger					ModeData Integrity				
	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeWidePacketGroup
UserDefinedStatNByteCount1 (supported only on ASM1000XMV12X)	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X
UserDefinedStatNByteCount2 (supported only on ASM1000XMV12X)	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X
CaptureTrigger	X		X		X				X		X	X	X	X			X	X
CaptureFilter	X		X		X				X		X	X	X	X			X	X
StreamTrigger1									X				X					
StreamTrigger2									X				X					
Type: States																		
Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LineSpeed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DuplexMode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TransmitState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CaptureState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PauseState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Type: Common																		
FramesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FramesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Table B-11. Statistics for 10/100/1000 LSM XMV(R)4/8/12/16, and 10/100/1000 ASM XMV12X Cards

Statistics Mode	Normal					Qos			StreamTrigger					ModeData Integrity				
	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup
BytesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BytesReceived	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X
FcsErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BitsReceived	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X
BitsSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PortCpuStatus					X		X	X					X					X
PortCpuDodStatus					X		X	X					X					X
Type: Transmit Duration																		
TransmitDuration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Type: Quality of Service																		
QualityOfService0						X	X	X										
Type: Checksum Stats																		
IPv4Packets	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
UdpPackets	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TcpPackets	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IPv4ChecksumErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
UdpChecksumErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TcpChecksumErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Type: Data Integrity																		
DataIntegrityFrames			X								X					X		

Table B-11. Statistics for 10/100/1000 LSM XMV(R)4/8/12/16, and 10/100/1000 ASM XMV12X Cards

Statistics Mode	Normal					Qos			StreamTrigger					ModeData Integrity					
	Receive Mode	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeWidePacketGroup
DataIntegrityErrors			X								X					X			
Type: Sequence Checking																			
SequenceFrames				X								X						X	
SequenceErrors				X								X						X	
Type: Ethernet																			
Fragments	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Undersize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Oversize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VlanTaggedFramesRx	X	X			X					X					X	X			X
FlowControlFrames	X	X			X	X	X	X	X	X				X	X	X			X
Type: 10/100																			
AlignmentErrors					X														X
DribbleErrors					X		X	X						X					X
Collisions					X		X	X						X					X
LateCollisions					X		X	X						X					X
CollisionFrames					X		X	X						X					X
ExcessiveCollisionFrames					X		X	X						X					X
Type: Gigabit																			
SymbolErrorFrames	X	X	X	X						X	X	X	X		X	X	X	X	



Table B-11. Statistics for 10/100/1000 LSM XMV(R)4/8/12/16, and 10/100/1000 ASM XMV12X Cards

Statistics Mode	Normal					Qos			StreamTrigger			ModeData Integrity						
	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup
SynchErrorFrames	X	X				X			X	X				X	X			
Type: 10/100 + Gigabit																		
SymbolErrors	X	X								X				X	X			
OversizeAndCrcErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Table B-12. Statistics for Gigabit Modules

Type: User Configurable	Normal						Qos				StreamTrigger						ModeChecksumErrors					ModeDataIntegrity								
	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup
UserDefinedStat1	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Table B-12. Statistics for Gigabit Modules

	Normal						Qos				StreamTrigger						ModeChecksumErrors						ModeDataIntegrity									
	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup		
UserDefinedStat2	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CaptureTrigger	X		X	X		X						X		X	X		X	X	X		X	X	X	X	X					X	X	
CaptureFilter	X		X	X		X						X		X	X		X	X	X		X	X	X	X	X					X	X	
StreamTrigger1												X						X														
StreamTrigger2												X						X														
Type: States																																
Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
LineSpeed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
DuplexMode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
TransmitState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CaptureState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PauseState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Type: Common																																
FramesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
FramesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
BytesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
BytesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
FcsErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
BitsReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
BitsSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	



Table B-12. Statistics for Gigabit Modules

	Normal						Qos				StreamTrigger						ModeChecksumErrors						ModeDataIntegrity									
	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup		
PortCpuStatus						X	X	X	X	X								X							X							X
PortCpuDodStatus						X	X	X	X	X								X							X							X
Type: Transmit Duration																																
TransmitDuration	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Type: Quality of Service																																
QualityOfService0							X	X	X	X																						
Type: Checksum Stats																																
IpPackets																			X											X		
UdpPackets																			X											X		
TcpPackets																			X											X		
IpChecksumErrors																			X											X		
UdpChecksumErrors																			X											X		
TcpChecksumErrors																			X											X		
Type: Data Integrity																																
DataIntegrityFrames				X										X							X						X					
DataIntegrityErrors				X										X							X						X					
Type: Sequence Checking																																
SequenceFrames						X										X							X						X			
SequenceErrors						X										X							X						X			
Type: Ethernet																																

Table B-12. Statistics for Gigabit Modules

	Normal						Qos				StreamTrigger						ModeChecksumErrors						ModeDataIntegrity								
	Capture	PacketGroup	RxTcpRoundTrip	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	
Fragments	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Undersize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Oversize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
VlanTaggedFramesRx	X	X	X		X		X					X	X		X				X	X		X			X	X		X		X	
FlowControlFrames	X	X	X		X		X	X	X	X	X	X	X		X			X	X		X			X	X		X		X		X
Type: 10/100																															
AlignmentErrors			X			X							X																	X	
DribbleErrors			X			X	X	X					X					X						X						X	
Collisions			X			X	X	X					X					X						X						X	
LateCollisions			X			X	X	X					X					X						X						X	
CollisionFrames			X			X	X	X					X					X						X						X	
ExcessiveCollisionFrames			X			X	X	X					X					X						X						X	
Type: Gigabit																															
SymbolErrorFrames	X	X		X	X	X						X	X		X	X	X			X	X	X	X		X	X	X	X	X		
SynchErrorFrames	X	X			X		X					X	X		X					X	X				X	X		X			
Type: 10/100 + Gigabit																															
SymbolErrors	X	X			X							X			X					X	X				X	X		X			
OversizeAndCrcErrors	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	



Table B-13. Statistics for OC12c/OC3c Modules

	Normal						Qos				StreamTrigger						ModeChecksum Errors					ModeDataIntegrity					Add'l							
	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	PosExtendedStats			
Type: User Configurable																																		
UserDefinedStat1	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
UserDefinedStat2	X	X	X	X	X	X	X					X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X			
CaptureTrigger	X		X				X					X		X				X	X						X	X						X		
CaptureFilter	X		X				X					X		X				X	X						X	X						X		
StreamTrigger1												X	X					X																
StreamTrigger2												X	X					X																
Type: States																																		
Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
LineSpeed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
DuplexMode			X		X		X			X	X			X		X		X					X		X					X		X		
TransmitState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CaptureState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
PauseState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Type: Common																																		
FramesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
FramesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
BytesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
BytesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

Table B-13. Statistics for OC12c/OC3c Modules

	Normal						Qos				StreamTrigger						ModeChecksum Errors						ModeDataIntegrity						Add'l			
	Capture	PacketGroup	RxTcpRoundTrip	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	PosExtendedStats	
FcsErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
BitsReceived	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
BitsSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
PortCpuStatus							X		X	X								X						X					X			
PortCpuDodStatus							X		X	X								X						X						X		
Type: Transmit Duration																																
TransmitDuration	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Type: Quality of Service																																
QualityOfService0							X	X	X	X																						
Type: Framer																																
FramerFCSErrors																																
FramerAbort																																X
FramerMinLength																																X
FramerMaxLength																																X
Type: Checksum Stats																																
IpPackets																		X					X									
UdpPackets																		X					X									
TcpPackets																		X					X									
IpChecksumErrors																		X					X									
UdpChecksumErrors																		X					X									

Table B-13. Statistics for OC12c/OC3c Modules

	Normal						Qos				StreamTrigger						ModeChecksum Errors						ModeDataIntegrity						Add'l		
	Capture	PacketGroup	RxTcpRoundTrip	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	PosExtendedStats
Type: Gigabit																															
SymbolErrorFrames				X												X															
SynchErrorFrames				X												X															
Type: 10/100 + Gigabit																															
SymbolErrors				X												X															
OversizeAndCrcErrors				X		X			X	X						X		X													
Type: POS																															
SectionLossOfSignal																															X
SectionLossOfFrame																															X
SectionBip																															X
LineAis																															X
LineRdi																															X
LineRei																															X
LineBip																															X
PathAis																															X
PathRdi																															X
PathRei																															X
PathBip																															X
PathLossOfPointer																															X
PathPlm																															X



Table B-13. Statistics for OC12c/OC3c Modules

	Normal						Qos				StreamTrigger						ModeChecksum Errors				ModeDataIntegrity				Add'l						
	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup		Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup
SectionBipErroredSecs																															
SectionBipSeverlyErrored Secs																															
SectionLossOfSignalSecs																															
LineBipErroredSecs																															
LineReiErroredSecs																															
LineAisAlarmSecs																															
LineRdiUnavailableSecs																															
PathBipErroredSecs																															
PathReiErroredSecs																															
PathAisAlarmSecs																															
PathAisUnavailableSecs																															
PathRdiUnavailableSecs																															
InputSignalStrength																															
PosK1Byte																															
PosK2Byte																															
SrpDataFramesReceived																															
SrpDiscoveryFrames Received																															
SrpIpsFramesReceived																															
SrpParityErrors																															

Table B-13. Statistics for OC12c/OC3c Modules

	Normal						Qos				StreamTrigger						ModeChecksum Errors				ModeDataIntegrity				Add'l						
	Capture	PacketGroup	RxTcpRoundTrip	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeWidePacketGroup	PosExtendedStats
SrpUsageFramesReceived																															
SrpUsageStatus																															
SrpUsageTimeouts																															

Table B-14. Statistics for OC48c Modules with BERT

	Normal							Qos					StreamTrigger						ModeChecksum Errors				ModeDataIntegrity				Add'l			
	Capture	PacketGroup	RxTcpRoundTrip	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	PosExtendedStats
Type: User Configurable																														
UserDefinedStat1	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
UserDefinedStat2	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CaptureTrigger	X	X					X							X	X							X	X	X					X	



Table B-14. Statistics for OC48c Modules with BERT

	Normal						Qos					StreamTrigger						ModeChecksum Errors						ModeDataIntegrity						Add'l PosExtendedStats	
	Capture PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture PacketGroup	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking		RxModeBert
CaptureFilter	X	X				X						X	X						X	X					X	X					X
StreamTrigger1												X	X				X	X	X												
StreamTrigger2												X	X				X	X	X												
Type: States																															
Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LineSpeed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DuplexMode			X		X		X		X		X		X		X		X		X		X		X		X		X		X		
TransmitState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CaptureState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PauseState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Type: Common																															
FramesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FramesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BytesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BytesReceived	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
FcsErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BitsReceived	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BitsSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PortCpuStatus	X	X		X		X	X	X	X	X		X	X		X		X		X	X	X	X		X	X	X		X		X	
PortCpuDodStatus	X	X		X		X	X	X	X		X	X		X		X		X	X	X	X		X	X	X		X		X		

Table B-14. Statistics for OC48c Modules with BERT

	Normal						Qos					StreamTrigger					ModeChecksum Errors					ModeDataIntegrity					Add'l PosExtendedStats										
	Capture PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture PacketGroup	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture PacketGroup		RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup					
Undersize		X	X			X		X			X		X	X			X		X			X		X			X		X			X					
Oversize		X	X			X		X			X		X	X			X		X			X		X			X		X			X					
VlanTaggedFramesRx		X	X			X							X	X								X					X		X			X					
FlowControlFrames		X	X			X		X			X		X	X			X					X					X		X			X					
Type: 10/100																																					
AlignmentErrors		X				X							X																			X					
DribbleErrors		X				X		X			X		X				X					X					X					X					
Collisions		X				X		X			X		X				X					X					X					X					
LateCollisions		X				X		X			X		X				X					X					X					X					
CollisionFrames		X				X		X			X		X				X					X					X					X					
ExcessiveCollisionFrames		X				X		X			X		X				X					X					X					X					
Type: Gigabit																																					
SymbolErrorFrames				X											X							X					X					X					
SynchErrorFrames				X											X							X					X					X					
Type: 10/100 + Gigabit																																					
SymbolErrors				X											X							X					X					X					
OversizeAndCrcErrors				X		X		X			X		X				X					X					X					X					
Type: POS																																					
SectionLossOfSignal																																					X
SectionLossOfFrame																																					X

Table B-14. Statistics for OC48c Modules with BERT

	Normal						Qos					StreamTrigger						ModeChecksum Errors						ModeDataIntegrity						Add'l							
	Capture	PacketGroup	RxTcpRoundTrip	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	PosExtendedStats
SectionBip																																				X	
LineAis																																				X	
LineRdi																																				X	
LineRei																																				X	
LineBip																																				X	
PathAis																																				X	
PathRdi																																				X	
PathRei																																				X	
PathBip																																				X	
PathLossOfPointer																																				X	
PathPlm																																				X	
SectionBipErroredSecs	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
SectionBipSeverlyErrored Secs	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
SectionLossOfSignalSecs	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
LineBipErroredSecs	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
LineReiErroredSecs	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
LineAisAlarmSecs	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
LineRdiUnavailableSecs	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
PathBipErroredSecs	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		



Table B-14. Statistics for OC48c Modules with BERT

	Normal						Qos					StreamTrigger						ModeChecksum Errors						ModeDataIntegrity						Add'l								
	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeWidePacketGroup	PosExtendedStats	
PathReiErroredSecs	X	X		X		X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
PathAisAlarmSecs	X	X		X		X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
PathAisUnavailableSecs	X	X		X		X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
PathRdiUnavailableSecs	X	X		X		X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
InputSignalStrength																																						
PosK1Byte																																						
PosK2Byte																																						
SrpDataFramesReceived																																						
SrpDiscoveryFramesReceived																																						
SrpIpsFramesReceived																																						
SrpParityErrors																																						
SrpUsageFramesReceived																																						
SrpUsageStatus																																						
SrpUsageTimeouts																																						

Table B-15. Statistics for OC48c Modules with SRP and DCC

	Normal						Qos				StreamTrigger					ModeChecksumErrors					ModeDataIntegrity					Add'l			
	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity		RxFirstTimeStamp	RxSequenceChecking	RxModeDcc
Type: User Configurable																													
UserDefinedStat1	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
UserDefinedStat2	X	X	X	X	X	X				X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X	X	
CaptureTrigger	X									X						X						X	X					X	
CaptureFilter	X									X						X						X						X	
StreamTrigger1										X	X			X	X														
StreamTrigger2										X	X			X	X														
Type: States																													
Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
LineSpeed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
DuplexMode				X									X							X						X			
TransmitState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CaptureState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PauseState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Type: Common																													
FramesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
FramesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
BytesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
BytesReceived	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
FcsErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	



Table B-15. Statistics for OC48c Modules with SRP and DCC

	Normal						Qos				StreamTrigger						ModeChecksumErrors						ModeDataIntegrity						Add'l		
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	PosExtendedStats		
BitsReceived	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
BitsSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
PortCpuStatus	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X		X	X			
PortCpuDodStatus	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X		X	X			
Type: Transmit Duration																															
TransmitDuration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Type: Quality of Service																															
QualityOfService0								X	X	X	X																				
Type: Checksum Stats																															
IpPackets																	X							X							
UdpPackets																	X							X							
TcpPackets																	X							X							
IpChecksumErrors																	X							X							
UdpChecksumErrors																	X							X							
TcpChecksumErrors																	X							X							
Type: Data Integrity																															
DataIntegrityFrames			X									X						X							X						
DataIntegrityErrors			X									X						X							X						
Type: Sequence Checking																															
SequenceFrames					X										X						X						X				
SequenceErrors					X										X						X						X				

Table B-15. Statistics for OC48c Modules with SRP and DCC

	Normal					Qos				StreamTrigger					ModeChecksumErrors					ModeDataIntegrity					Add'l						
	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	PosExtendedStats		
Type: Ethernet																															
Fragments				X										X													X				
Undersize				X										X													X				
Oversize				X										X													X				
VlanTaggedFramesRx				X										X													X				
FlowControlFrames				X										X													X				
Type: Gigabit																															
SymbolErrorFrames				X										X													X				
SynchErrorFrames				X										X													X				
Type: 10/100 + Gigabit																															
SymbolErrors				X										X													X				
OversizeAndCrcErrors				X										X													X				
Type: POS																															
SectionLossOfSignal																															X
SectionLossOfFrame																															X
SectionBip																															X
LineAis																															X
LineRdi																															X
LineRei																															X
LineBip																															X
PathAis																															X

Table B-15. Statistics for OC48c Modules with SRP and DCC

	Normal					Qos				StreamTrigger					ModeChecksumErrors					ModeDataIntegrity					Add'l					
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup		RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	PosExtendedStats
PathRdi																													X	
PathRei																														X
PathBip																														X
PathLossOfPointer																														X
PathPlm																														X
SectionBipErroredSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SectionBipSeverlyErroredSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SectionLossOfSignalSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
LineBipErroredSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
LineReiErroredSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
LineAisAlarmSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
LineRdiUnavailableSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PathBipErroredSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PathReiErroredSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PathAisAlarmSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PathAisUnavailableSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PathRdiUnavailableSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
InputSignalStrength																														
PosK1Byte	X	X	X		X	X					X	X	X		X	X							X	X	X		X	X		
PosK2Byte	X	X	X		X	X					X	X	X		X	X							X	X	X		X	X		
SrpDataFramesReceived	X	X	X		X	X					X	X	X		X	X							X	X	X		X	X		

Table B-15. Statistics for OC48c Modules with SRP and DCC

	Normal					Qos				StreamTrigger					ModeChecksumErrors					ModeDataIntegrity					Add'l			
	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	PosExtendedStats					
SrpDiscoveryFramesReceived	X	X	X		X	X				X	X	X		X	X						X	X	X		X	X		
SrpIpsFramesReceived	X	X	X		X	X				X	X	X		X	X						X	X	X		X	X		
SrpParityErrors	X	X	X		X	X				X	X	X		X	X					X	X	X		X	X			
SrpUsageFramesReceived	X	X	X		X	X				X	X	X		X	X					X	X	X		X	X			
SrpUsageStatus	X	X	X		X	X				X	X	X		X	X					X	X	X		X	X			
SrpUsageTimeouts	X	X	X		X	X				X	X	X		X	X					X	X	X		X	X			
Type: DCC																												
DccBytesReceived						X									X							X				X		
DccBytesSent																												
DccCrcErrorsReceived						X									X							X				X		
DccFramesReceived						X									X							X				X		
DccFramesSent																												
DccFramingErrorsReceived																												

Table B-16. Statistics for OC48c Modules with RPR and DCC

	Normal						Qos				StreamTrigger					ModeChecksumErrors					ModeDataIntegrity					Add'l PosExtendedStats			
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity		RxFirstTimeStamp	RxSequenceChecking	RxModeDcc
Type: User Configurable																													
UserDefinedStat1	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
UserDefinedStat2	X	X	X	X	X	X				X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X	
CaptureTrigger	X									X							X						X					X	
CaptureFilter	X									X						X							X					X	
StreamTrigger1										X	X			X	X														
StreamTrigger2										X	X			X	X														
Type: States																													
Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LineSpeed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DuplexMode				X									X							X						X			
TransmitState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CaptureState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PauseState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Type: Common																													
FramesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FramesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BytesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BytesReceived	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FcsErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Table B-16. Statistics for OC48c Modules with RPR and DCC

	Normal						Qos				StreamTrigger						ModeChecksumErrors						ModeDataIntegrity						Add'l PosExtendedStats	
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc		
BitsReceived	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
BitsSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
PortCpuStatus	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X		X	X		
PortCpuDodStatus	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X		X	X		
Type: Transmit Duration																														
TransmitDuration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Type: Quality of Service																														
QualityOfService0							X	X	X	X																				
Type: Checksum Stats																														
IpPackets																	X						X							
UdpPackets																	X						X							
TcpPackets																	X						X							
IpChecksumErrors																	X						X							
UdpChecksumErrors																	X						X							
TcpChecksumErrors																	X						X							
Type: Data Integrity																														
DataIntegrityFrames			X									X						X							X					
DataIntegrityErrors			X									X						X							X					
Type: Sequence Checking																														
SequenceFrames					X				X					X						X						X				
SequenceErrors					X				X					X						X						X				



Table B-16. Statistics for OC48c Modules with RPR and DCC

	Normal					Qos				StreamTrigger					ModeChecksumErrors					ModeDataIntegrity					Add'l						
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup		RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	PosExtendedStats	
Type: Ethernet																															
Fragments				X									X														X				
Undersize				X									X													X					
Oversize				X									X												X						
VlanTaggedFramesRx				X									X												X						
FlowControlFrames				X									X												X						
Type: Gigabit																															
SymbolErrorFrames				X									X												X						
SynchErrorFrames				X									X												X						
Type: 10/100 + Gigabit																															
SymbolErrors				X									X												X						
OversizeAndCrcErrors				X									X												X						
Type: POS																															
SectionLossOfSignal																															X
SectionLossOfFrame																															X
SectionBip																															X
LineAis																															X
LineRdi																															X
LineRei																															X
LineBip																															X
PathAis																															X
PathRdi																															X

Table B-16. Statistics for OC48c Modules with RPR and DCC

	Normal					Qos				StreamTrigger					ModeChecksumErrors					ModeDataIntegrity					Add'l PosExtendedStats				
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup		RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc
PathRei																													X
PathBip																													X
PathLossOfPointer																													X
PathPlm																													X
SectionBipErroredSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X		X	X	
SectionBipSeverlyErroredSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X		X	X	
SectionLossOfSignalSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X		X	X	
LineBipErroredSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X		X	X	
LineReiErroredSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X		X	X	
LineAisAlarmSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X		X	X	
LineRdiUnavailableSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X		X	X	
PathBipErroredSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X		X	X	
PathReiErroredSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X		X	X	
PathAisAlarmSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X		X	X	
PathAisUnavailableSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X		X	X	
PathRdiUnavailableSecs	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X		X	X	
InputSignalStrength																													
PosK1Byte																													
PosK2Byte																													
SrpDataFramesReceived																													

Table B-16. Statistics for OC48c Modules with RPR and DCC

	Normal					Qos				StreamTrigger					ModeChecksumErrors					ModeDataIntegrity					Add'l PosExtendedStats				
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup		RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc
SrpDiscoveryFramesReceived																													
SrpIpsFramesReceived																													
SrpParityErrors																													
SrpUsageFramesReceived																													
SrpUsageStatus																													
SrpUsageTimeouts																													
Type: DCC																													
DccBytesReceived						X			X						X						X							X	
DccBytesSent																													
DccCrcErrorsReceived						X			X						X						X							X	
DccFramesReceived						X			X						X						X							X	
DccFramesSent																													
DccFramingErrorsReceived																													
Type: RPR																													
RprDiscoveryFramesReceived	X	X	X		X	X				X	X	X		X	X						X	X	X		X	X		X	X
RprDataFramesReceived	X	X	X		X	X				X	X	X		X	X						X	X	X		X	X		X	X
RprFairnessFramesReceived	X	X	X		X	X				X	X	X		X	X						X	X	X		X	X		X	X
RprFairnessFramesSent	X	X	X		X	X				X	X	X		X	X						X	X	X		X	X		X	X
RprFairnessTimeouts	X	X	X		X	X				X	X	X		X	X						X	X	X		X	X		X	X

Table B-16. Statistics for OC48c Modules with RPR and DCC

	Normal						Qos				StreamTrigger					ModeChecksumErrors					ModeDataIntegrity					Add'l				
	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeDcc	PosExtendedStats	
RprHeaderCrcErrors	X	X	X		X	X					X	X	X		X	X							X	X	X		X	X		
RprOamFramesReceived	X	X	X		X	X					X	X	X		X	X							X	X	X		X	X		
RprPayloadCrcErrors	X	X	X		X	X					X	X	X		X	X							X	X	X		X	X		
RprProtectionFramesReceived	X	X	X		X	X					X	X	X		X	X							X	X	X		X	X		

Table B-17. Statistics for 2.5G MSM POS modules

	Normal								Qos						StreamTrigger						ModeChecksumErrors						ModeDataIntegrity						Add'l							
	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	Temperature Sensors Stats		
Type: User Configurable																																								
UserDefinedStat1	X	X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
UserDefinedStat2	X	X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CaptureTrigger	X	X	X		X					X	X	X	X	X					X	X																				



Table B-17. Statistics for 2.5G MSM POS modules

	Normal								Qos								StreamTrigger								ModeChecksum Errors						ModeDataIntegrity						Add'l	
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats	
CaptureFilter	X	X	X		X			X	X	X	X	X				X	X	X	X	X	X					X	X	X		X					X			
StreamTrigger1	X	X	X		X			X	X	X	X	X				X	X	X	X	X	X	X				X	X	X		X					X			
StreamTrigger2	X	X	X		X			X	X	X	X	X				X	X	X	X	X	X	X				X	X	X		X					X			
Type: States																																						
Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
LineSpeed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
DuplexMode				X																X										X								
TransmitState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CaptureState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
PauseState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Type: Common																																						
FramesSent	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
FramesReceived	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
BytesSent	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
BytesReceived	X	X	X	X	X		X	X	X								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
FcsErrors	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
BitsReceived	X	X	X	X	X		X	X	X								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
BitsSent	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
PortCpuStatus	X	X	X		X		X	X	X	X	X	X				X	X	X	X	X	X	X				X	X	X	X		X				X	X		
PortCpuDodStatus	X	X	X		X		X	X	X	X	X	X				X	X	X	X	X	X	X				X	X	X	X		X				X	X		

Table B-17. Statistics for 2.5G MSM POS modules

	Normal							Qos							StreamTrigger							ModeChecksum Errors					ModeDataIntegrity							Add'l						
	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats			
Type: Transmit Duration																																								
TransmitDuration	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
Type: Quality of Service																																								
QualityOfService0									X	X	X	X	X	X	X	X																								
Type: Checksum Stats																																								
IpPackets																			X	X	X		X		X															
UdpPackets																			X	X	X		X		X															
TcpPackets																			X	X	X		X		X															
IpChecksumErrors																			X	X	X		X		X															
UdpChecksumErrors																			X	X	X		X		X															
TcpChecksumErrors																			X	X	X		X		X															
Type: Data Integrity																																								
DataIntegrityFrames			X									X																												
DataIntegrityErrors			X									X																												
Type: Sequence Checking																																								
SequenceFrames					X							X																												
SequenceErrors					X							X																												
Type: Ethernet																																								
Fragments				X			X																																	



Table B-17. Statistics for 2.5G MSM POS modules

	Normal							Qos					StreamTrigger					ModeChecksum Errors					ModeDataIntegrity					Add'l									
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats		
Undersize				X		X							X	X																							
Oversize				X		X							X	X																							
VlanTaggedFramesRx				X		X							X	X																							
FlowControlFrames				X		X							X	X																							
Type: Gigabit																																					
SymbolErrorFrames				X									X																								
SynchErrorFrames				X									X																								
Type: 10/100 + Gigabit																																					
SymbolErrors				X									X																								
OversizeAndCrcErrors				X		X							X	X																							
Type: POS																																					
SectionLossOfSignal						X																														X	
SectionLossOfFrame																																				X	
SectionBip																																				X	
LineAis																																				X	
LineRdi																																				X	
LineRei																																				X	
LineBip																																				X	
PathAis																																				X	
PathRdi																																				X	

Table B-17. Statistics for 2.5G MSM POS modules

	Normal							Qos							StreamTrigger							ModeChecksum Errors							ModeDataIntegrity							Add'l		
	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats
PathRei																																					X	
PathBip																																					X	
PathLossOfPointer																																					X	
PathPlm																																					X	
SectionBipErroredSecs																																					X	
SectionBipSeverlyErroredSecs																																					X	
SectionLossOfSignalSecs																																					X	
LineBipErroredSecs																																					X	
LineReiErroredSecs																																					X	
LineAisAlarmSecs																																					X	
LineRdiUnavailableSecs																																					X	
PathBipErroredSecs																																					X	
PathReiErroredSecs																																					X	
PathAisAlarmSecs																																					X	
PathAisUnavailableSecs																																					X	
PathRdiUnavailableSecs																																					X	
InputSignalStrength							X	X																													X	
PosK1Byte	X	X	X	X	X				X	X	X	X	X	X				X											X	X	X	X	X			X		
PosK2Byte	X	X	X	X	X				X	X	X	X	X	X				X											X	X	X	X	X			X		



Table B-17. Statistics for 2.5G MSM POS modules

	Normal							Qos							StreamTrigger							ModeChecksum Errors						ModeDataIntegrity						Add'l			
	Capture	PacketGroup	RxDataIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats		
SrpDataFramesReceived	X	X	X	X			X	X	X	X	X	X	X			X	X	X	X	X	X			X	X	X	X	X	X	X			X				
SrpDiscoveryFrames Received	X	X	X	X			X	X	X	X	X	X	X			X	X	X	X	X	X			X	X	X	X	X	X	X			X				
SrpIpsFramesReceived	X	X	X	X			X	X	X	X	X	X	X			X	X	X	X	X	X			X	X	X	X	X	X	X			X				
SrpParityErrors	X	X	X	X			X	X	X	X	X	X	X			X	X	X	X	X	X			X	X	X	X	X	X	X			X				
SrpUsageFramesReceived	X	X	X	X			X	X	X	X	X	X	X			X	X	X	X	X	X			X	X	X	X	X	X	X			X				
SrpUsageStatus	X	X	X	X			X	X	X	X	X	X	X			X	X	X	X	X	X			X	X	X	X	X	X	X			X				
SrpUsageTimeouts	X	X	X	X			X	X	X	X	X	X	X			X	X	X	X	X	X			X	X	X	X	X	X	X			X				
Type: DCC																																					
DccBytesReceived							X								X									X									X				
DccBytesSent																																					
DccCrcErrorsReceived							X								X									X									X				
DccFramesReceived							X								X									X									X				
DccFramesSent																																					
DccFramingErrors Received																																					
Type: BERT																																					
BertStatus					X																	X															
BertBitsSent					X																	X															
BertBitsReceived					X																	X															
BertBitErrorsSent					X																	X															

Table B-17. Statistics for 2.5G MSM POS modules

	Normal							Qos							StreamTrigger							ModeChecksum Errors							ModeDataIntegrity							Add'l	
	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats			
BertBitErrorsReceived					X																																
BertErroredBlocks					X																																
BertErroredSeconds					X																																
BertSeverelyErrored Seconds					X																																
BertErrorFreeSeconds					X																																
BertAvailableSeconds					X																																
BertUnavailableSeconds					X																																
BertBlockErrorState					X																																
BertBackgroundBlock Errors					X																																
BertBitErrorRatio					X																																
BertErroredSecondRatio					X																																
BertSeverelyErrored SecondRatio					X																																
BertBackgroundBlockError Ratio					X																																
BertNumberMismatched Ones					X																																
BertMismatchedOnesRatio					X																																
BertNumberMismatched Zeros					X																																



Table B-17. Statistics for 2.5G MSM POS modules

	Normal							Qos							StreamTrigger							ModeChecksum Errors							ModeDataIntegrity							Add'l	
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats		
BertMismatchedZerosRatio					X																																
BertElapsedTestTime					X																	X															
BertUnframedOutputSignal Strength																																					
BertUnframedDetectedLine Rate																																					
BertDeskewPatternLock																																					
BertRxDeskewErrored Frames																																					
BertRxDeskewErrorFree Frames																																					
BertRxDeskewLossOf Frame																																					
BertTimeSinceLastError																																					
BertTriggerCount																																					
BertTxDeskewBitErrors																																					
BertTxDeskewErrored Frames																																					
BertTxDeskewErrorFree Frames																																					
Type: Service Disruption																																					
BertLastServiceDisruption Time					X																	X															

Table B-17. Statistics for 2.5G MSM POS modules

	Normal								Qos				StreamTrigger				ModeChecksum Errors				ModeDataIntegrity				Add'l												
	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats		
BertMinServiceDisruption Time						X																															
BertMaxServiceDisruption Time						X																															
BertServiceDisruption Cumulative						X																															
Type: OC192 - Temperature																																					
DMATemperature																																				X	
CaptureTemperature																																				X	
LatencyTemperature																																				X	
BackgroundTemperature																																				X	
OverlayTemperature																																				X	
FrontEndTemperature																																				X	
SchedulerTemperature																																					
PlmDevice1Internal Temperature																																					
PlmDevice2Internal Temperature																																					
PlmDevice3Internal Temperature																																					
FobPort1Fpga Temperature																																					



Table B-17. Statistics for 2.5G MSM POS modules

	Normal							Qos					StreamTrigger						ModeChecksum Errors					ModeDataIntegrity					Add'l									
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats			
FobPort2Fpga Temperature																																						
FobBoard Temperature																																						
FobDevice1Internal Temperature																																						
Type: 10 Gig																																						
PauseAcknowledge						X						X	X				X																	X	X			
PauseEndFrames						X						X	X				X																		X	X		
PauseOverwrite						X						X	X				X																		X	X		
10GigLanTxFpga Temperature																																						
10GigLanRxFpga Temperature																																						
CodingErrorFrames Received																																						
EErrorCharacterFrames Received																																						
DroppedFrames																																						
Type: Link Fault Signaling																																						
LinkFaultState						X							X				X																			X		
LocalFaults						X							X				X																			X		
RemoteFaults						X							X				X																			X		

Table B-17. Statistics for 2.5G MSM POS modules

	Normal								Qos								StreamTrigger								ModeChecksum Errors				ModeDataIntegrity								Add'l		
	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats		
Type: RPR																																							
RprDiscoveryFrames Received								X																														X	
RprDataFramesReceived								X																														X	
RprFairnessFrames Received								X																														X	
RprFairnessFramesSent								X																														X	
RprFairnessTimeouts								X																														X	
RprHeaderCrcErrors								X																														X	
RprOamFramesReceived								X																														X	
RprPayloadCrcErrors								X																														X	
RprProtectionFrames Received								X																														X	



Table B-18. Statistics for OC192c Modules with BERT

	Normal								Qos								StreamTrigger								ModeChecksum Errors								ModeDataIntegrity								Add'l									
	Capture	PacketGroup	RxTcpRoundTrip	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats			
Type: User Configurable																																																		
UserDefinedStat1	X	X	X	X	X	X	X	X	X																																									
UserDefinedStat2	X	X	X	X	X	X	X	X	X																																									
CaptureTrigger	X		X																																															
CaptureFilter	X		X																																															
StreamTrigger1																																																		
StreamTrigger2																																																		
Type: States																																																		
Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LineSpeed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
DuplexMode			X		X									X																																				
TransmitState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CaptureState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PauseState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Type: Common																																																		
FramesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
FramesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BytesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BytesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Table B-18. Statistics for OC192c Modules with BERT

	Normal								Qos								StreamTrigger								ModeChecksum Errors								ModeDataIntegrity								Add'l						
	Capture	PacketGroup	RxTcpRoundTrip	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxTcpRoundTrip	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats
FcsErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
BitsReceived	X	X	X	X	X	X	X	X	X	X									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
BitsSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
PortCpuStatus	X	X		X			X	X	X	X	X	X	X	X			X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
PortCpuDodStatus	X	X	X	X			X	X	X	X	X	X	X	X			X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
Type: Transmit Duration																																															
TransmitDuration	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
Type: Quality of Service																																															
QualityOfService0											X	X	X	X	X	X	X	X																													
Type: Checksum Stats																																															
IpPackets																																															
UdpPackets																																															
TcpPackets																																															
IpChecksumErrors																																															
UdpChecksumErrors																																															
TcpChecksumErrors																																															
Type: Data Integrity																																															
DataIntegrityFrames				X																																											
DataIntegrityErrors				X																																											



Table B-18. Statistics for OC192c Modules with BERT

	Normal								Qos						StreamTrigger						ModeChecksum Errors						ModeDataIntegrity						Add'l								
	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats				
Type: Sequence Checking																																									
SequenceFrames					X				X																											X					
SequenceErrors					X				X					X																							X				
Type: Ethernet																																									
Fragments		X	X						X					X	X							X					X								X						
Undersize		X	X						X					X	X							X				X									X						
Oversize		X	X						X					X	X							X				X									X						
VlanTaggedFramesRx		X	X						X					X	X							X				X									X						
FlowControlFrames		X	X						X					X	X							X				X									X						
Type: 10/100																																									
AlignmentErrors		X												X								X																			
DribbleErrors		X							X					X								X					X														
Collisions		X							X					X								X				X															
LateCollisions		X							X					X								X				X															
CollisionFrames		X							X					X								X				X															
ExcessiveCollisionFrames		X							X					X								X				X															
Type: Gigabit																																									
SymbolErrorFrames				X										X								X														X					
SynchErrorFrames				X										X								X														X					
Type: 10/100 + Gigabit																																									

Table B-18. Statistics for OC192c Modules with BERT

	Normal								Qos								StreamTrigger								ModeChecksum Errors					ModeDataIntegrity					Add'l											
	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats										
SymbolErrors					X																	X																								
OversizeAndCrcErrors				X								X												X				X																		
Type: POS																																														
SectionLossOfSignal																																													X	
SectionLossOfFrame																																													X	
SectionBip																																												X		
LineAis																																												X		
LineRdi																																												X		
LineRei																																												X		
LineBip																																												X		
PathAis																																												X		
PathRdi																																												X		
PathRei																																												X		
PathBip																																												X		
PathLossOfPointer																																												X		
PathPIm																																												X		
SectionBipErroredSecs									X								X			X	X	X		X	X	X														X						
SectionBipSeverlyErroredSecs									X								X			X	X	X		X	X	X															X					
SectionLossOfSignalSecs									X								X			X	X	X		X	X	X																X				

Table B-18. Statistics for OC192c Modules with BERT

	Normal							Qos							StreamTrigger							ModeChecksum Errors							ModeDataIntegrity							Add'l		
	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats	
LineBipErroredSecs								X									X									X										X		
LineReiErroredSecs								X									X									X										X		
LineAisAlarmSecs								X									X									X										X		
LineRdiUnavailableSecs								X									X									X										X		
PathBipErroredSecs								X									X									X										X		
PathReiErroredSecs								X									X									X										X		
PathAisAlarmSecs								X									X									X										X		
PathAisUnavailableSecs								X									X									X										X		
PathRdiUnavailableSecs								X									X									X										X		
InputSignalStrength	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PosK1Byte																																						
PosK2Byte																																						
SrpDataFramesReceived																																						
SrpDiscoveryFramesReceived																																						
SrpIpsFramesReceived																																						
SrpParityErrors																																						
SrpUsageFramesReceived																																						
SrpUsageStatus																																						
SrpUsageTimeouts																																						
Type: DCC																																						

Table B-18. Statistics for OC192c Modules with BERT

	Normal								Qos								StreamTrigger								ModeChecksum Errors				ModeDataIntegrity				Add'l				
	Capture	PacketGroup	RxTcpRoundTrip	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats	
DccBytesReceived							X									X																					
DccBytesSent																																					
DccCrcErrorsReceived							X									X																					
DccFramesReceived							X									X																					
DccFramesSent																																					
DccFramingErrors Received																																					
Type: OC192 - Temperature																																					
DMA Temperature																																					X
Capture Temperature																																					X
Latency Temperature																																					X
Background Temperature																																					
Overlay Temperature																																					X
Front End Temperature																																					X
Scheduler Temperature																																					X
PlmDevice1 Internal Temperature																																					X
PlmDevice2 Internal Temperature																																					X
PlmDevice3 Internal Temperature																																					X



Table B-18. Statistics for OC192c Modules with BERT

	Normal								Qos				StreamTrigger				ModeChecksum Errors				ModeDataIntegrity				Add'l															
	Capture	PacketGroup	RxTcpRoundTrip	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats			
FobPort1Fpga Temperature																																					X			
FobPort2Fpga Temperature																																							X	
FobBoard Temperature																																							X	
FobDevice1Internal Temperature																																							X	

Table B-19. Statistics for OC192c Modules with SRP and DCC

	Normal								Qos				StreamTrigger				ModeChecksumErrors				ModeDataIntegrity				Add'l														
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats									
Type: User Configurable																																							
UserDefinedStat1	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
UserDefinedStat2	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

Table B-19. Statistics for OC192c Modules with SRP and DCC

	Normal							Qos				StreamTrigger						ModeChecksumErrors					ModeDataIntegrity						Add'l						
	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats
CaptureTrigger	X											X									X	X											X		
CaptureFilter	X											X									X	X											X		
StreamTrigger1												X	X			X	X	X	X																
StreamTrigger2												X	X			X	X	X	X																
Type: States																																			
Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
LineSpeed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
DuplexMode				X											X													X							
TransmitState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CaptureState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PauseState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Type: Common																																			
FramesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
FramesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
BytesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
BytesReceived	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
FcsErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
BitsReceived	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
BitsSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
PortCpuStatus	X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			

Table B-19. Statistics for OC192c Modules with SRP and DCC

	Normal							Qos				StreamTrigger						ModeChecksumErrors						ModeDataIntegrity						Add'l							
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats	
PortCpuDodStatus	X	X	X		X		X	X	X	X	X	X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X	X					
Type: Transmit Duration																																					
TransmitDuration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Type: Quality of Service																																					
QualityOfService0								X	X	X	X																										
Type: Checksum Stats																																					
IpPackets																					X					X											
UdpPackets																					X				X												
TcpPackets																					X				X												
IpChecksumErrors																					X				X												
UdpChecksumErrors																					X				X												
TcpChecksumErrors																					X				X												
Type: Data Integrity																																					
DataIntegrityFrames			X											X									X						X								
DataIntegrityErrors			X											X									X						X								
Type: Sequence Checking																																					
SequenceFrames					X					X						X								X					X								
SequenceErrors					X					X						X								X					X								
Type: Ethernet																																					
Fragments			X											X									X					X									

Table B-19. Statistics for OC192c Modules with SRP and DCC

	Normal							Qos				StreamTrigger						ModeChecksumErrors					ModeDataIntegrity						Add'l	
	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats
Undersize				X												X														
Oversize				X												X														
VlanTaggedFramesRx				X												X														
FlowControlFrames				X												X														
Type: Gigabit																														
SymbolErrorFrames				X												X														
SynchErrorFrames				X												X														
Type: 10/100 + Gigabit																														
SymbolErrors				X												X														
OversizeAndCrcErrors				X												X														
Type: POS																														
SectionLossOfSignal																													X	
SectionLossOfFrame																													X	
SectionBip																													X	
LineAis																													X	
LineRdi																													X	
LineRei																													X	
LineBip																													X	
PathAis																													X	
PathRdi																													X	



Table B-19. Statistics for OC192c Modules with SRP and DCC

	Normal							Qos				StreamTrigger							ModeChecksumErrors					ModeDataIntegrity							Add'l							
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats		
PathRei																																			X			
PathBip																																			X			
PathLossOfPointer																																			X			
PathPlm																																			X			
SectionBipErroredSecs								X	X	X	X										X	X	X					X	X									
SectionBipSeverlyErroredSecs								X	X	X	X										X	X	X					X	X									
SectionLossOfSignalSecs								X	X	X	X										X	X	X					X	X									
LineBipErroredSecs								X	X	X	X										X	X	X					X	X									
LineReiErroredSecs								X	X	X	X										X	X	X					X	X									
LineAisAlarmSecs								X	X	X	X										X	X	X					X	X									
LineRdiUnavailableSecs								X	X	X	X										X	X	X					X	X									
PathBipErroredSecs								X	X	X	X										X	X	X					X	X									
PathReiErroredSecs								X	X	X	X										X	X	X					X	X									
PathAisAlarmSecs								X	X	X	X										X	X	X					X	X									
PathAisUnavailableSecs								X	X	X	X										X	X	X					X	X									
PathRdiUnavailableSecs								X	X	X	X										X	X	X					X	X									
InputSignalStrength	X	X	X	X	X	X	X					X	X	X	X	X	X	X											X	X	X	X	X	X	X			
PosK1Byte	X	X	X	X	X	X	X					X	X	X	X	X	X	X											X	X	X	X	X	X	X			
PosK2Byte	X	X	X	X	X	X	X					X	X	X	X	X	X	X											X	X	X	X	X	X	X			
SrpDataFramesReceived	X	X	X	X	X	X	X					X	X	X	X	X	X	X											X	X	X	X	X	X	X			

Table B-19. Statistics for OC192c Modules with SRP and DCC

	Normal							Qos				StreamTrigger						ModeChecksumErrors					ModeDataIntegrity						Add'l									
	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats		
SrpDiscoveryFramesReceived	X	X	X		X	X	X	X					X	X	X		X	X	X	X																		
SrpIpsFramesReceived	X	X	X		X	X	X	X					X	X	X		X	X	X	X									X	X	X		X	X	X	X		
SrpParityErrors	X	X	X		X	X	X	X					X	X	X		X	X	X	X									X	X	X		X	X	X	X		
SrpUsageFramesReceived	X	X	X		X	X	X	X					X	X	X		X	X	X	X									X	X	X		X	X	X	X		
SrpUsageStatus	X	X	X		X	X	X	X					X	X	X		X	X	X	X									X	X	X		X	X	X	X		
SrpUsageTimeouts	X	X	X		X	X	X	X					X	X	X		X	X	X	X									X	X	X		X	X	X	X		
Type: DCC																																						
DccBytesReceived						X	X				X							X	X							X						X	X					
DccBytesSent																																						
DccCrcErrorsReceived						X	X				X							X	X							X						X	X					
DccFramesReceived						X	X				X							X	X							X						X	X					
DccFramesSent																																						
DccFramingErrorsReceived																																						
Type: OC192 - Temperature																																						
DMAtemperature																																				X		
CaptureTemperature																																				X		
LatencyTemperature																																					X	
BackgroundTemperature																																						



Table B-19. Statistics for OC192c Modules with SRP and DCC

	Normal							Qos				StreamTrigger						ModeChecksumErrors					ModeDataIntegrity						Add'l							
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats
OverlayTemperature																																				X
FrontEndTemperature																																				X
SchedulerTemperature																																				X
PlmDevice1InternalTemperature																																				X
PlmDevice2InternalTemperature																																				X
PlmDevice3InternalTemperature																																				X
FobPort1FpgaTemperature																																				X
FobPort2FpgaTemperature																																				X
FobBoardTemperature																																				X
FobDevice1InternalTemperature																																				X

Description of Statistics

Table B-20. Statistics for OC192c Modules with RPR and DCC

	Normal							Qos				StreamTrigger						ModeChecksum Errors						ModeDataIntegrity						Add'l						
	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats
Type: User Configurable																																				
UserDefinedStat1	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
UserDefinedStat2	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X			
CaptureTrigger	X												X								X					X							X			
CaptureFilter	X												X								X					X							X			
StreamTrigger1													X	X			X	X	X	X																
StreamTrigger2													X	X			X	X	X	X																
Type: States																																				
Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
LineSpeed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
DuplexMode				X												X								X							X					
TransmitState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CaptureState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PauseState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Type: Common																																				
FramesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
FramesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
BytesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
BytesReceived	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

Table B-20. Statistics for OC192c Modules with RPR and DCC

	Normal							Qos				StreamTrigger						ModeChecksum Errors					ModeDataIntegrity						Add'l								
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats	
FcsErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
BitsReceived	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
BitsSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
PortCpuStatus	X	X	X		X		X	X	X	X	X	X	X	X		X		X	X	X	X	X	X		X	X	X	X		X		X					
PortCpuDodStatus	X	X	X		X		X	X	X	X	X	X	X	X		X		X	X	X	X	X	X		X	X	X	X		X		X					
Type: Transmit Duration																																					
TransmitDuration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
Type: Quality of Service																																					
QualityOfService0								X	X	X	X																										
Type: Checksum Stats																																					
IpPackets																					X					X											
UdpPackets																					X					X											
TcpPackets																					X					X											
IpChecksumErrors																					X					X											
UdpChecksumErrors																					X					X											
TcpChecksumErrors																					X					X											
Type: Data Integrity																																					
DataIntegrityFrames			X											X								X						X									
DataIntegrityErrors			X											X								X						X									
Type: Sequence Checking																																					

Table B-20. Statistics for OC192c Modules with RPR and DCC

	Normal							Qos				StreamTrigger						ModeChecksum Errors					ModeDataIntegrity						Add'l							
	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats
SequenceFrames					X					X																										
SequenceErrors					X					X																										
Type: Ethernet																																				
Fragments				X											X																					
Undersize				X											X																					
Oversize				X											X																					
VlanTaggedFramesRx				X											X																					
FlowControlFrames				X											X																					
Type: Gigabit																																				
SymbolErrorFrames				X											X																					
SynchErrorFrames				X											X																					
Type: 10/100 + Gigabit																																				
SymbolErrors				X											X																					
OversizeAndCrcErrors				X											X																					
Type: POS																																				
SectionLossOfSignal																																				X
SectionLossOfFrame																																				X
SectionBip																																				X
LineAis																																				X
LineRdi																																				X



Table B-20. Statistics for OC192c Modules with RPR and DCC

	Normal							Qos				StreamTrigger						ModeChecksum Errors					ModeDataIntegrity						Add'l									
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats		
LineRei																																			X			
LineBip																																				X		
PathAis																																				X		
PathRdi																																				X		
PathRei																																					X	
PathBip																																					X	
PathLossOfPointer																																					X	
PathPlm																																					X	
SectionBipErroredSecs								X	X	X	X										X	X	X		X	X												
SectionBipSeverlyErrored Secs								X	X	X	X										X	X	X		X	X												
SectionLossOfSignalSecs								X	X	X	X										X	X	X		X	X												
LineBipErroredSecs								X	X	X	X										X	X	X		X	X												
LineReiErroredSecs								X	X	X	X										X	X	X		X	X												
LineAisAlarmSecs								X	X	X	X										X	X	X		X	X												
LineRdiUnavailableSecs								X	X	X	X										X	X	X		X	X												
PathBipErroredSecs								X	X	X	X										X	X	X		X	X												
PathReiErroredSecs								X	X	X	X										X	X	X		X	X												
PathAisAlarmSecs								X	X	X	X										X	X	X		X	X												
PathAisUnavailableSecs								X	X	X	X										X	X	X		X	X												
PathRdiUnavailableSecs								X	X	X	X										X	X	X		X	X												

Table B-20. Statistics for OC192c Modules with RPR and DCC

	Normal							Qos				StreamTrigger						ModeChecksum Errors					ModeDataIntegrity						Add'l									
	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats		
InputSignalStrength	X	X	X		X	X	X	X					X	X	X		X	X	X	X																		
PosK1Byte																																						
PosK2Byte																																						
SrpDataFramesReceived																																						
SrpDiscoveryFrames Received																																						
SrpIpsFramesReceived																																						
SrpParityErrors																																						
SrpUsageFramesReceived																																						
SrpUsageStatus																																						
SrpUsageTimeouts																																						
Type: DCC																																						
DccBytesReceived						X	X					X						X	X							X						X	X					
DccBytesSent																																						
DccCrcErrorsReceived						X	X					X						X	X							X						X	X					
DccFramesReceived						X	X					X						X	X							X					X	X						
DccFramesSent																																						
DccFramingErrors Received																																						
Type: OC192 - Temperature																																						



Table B-20. Statistics for OC192c Modules with RPR and DCC

	Normal							Qos				StreamTrigger						ModeChecksum Errors					ModeDataIntegrity						Add'l								
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats	
DMATemperature																																				X	
CaptureTemperature																																				X	
LatencyTemperature																																				X	
BackgroundTemperature																																					
OverlayTemperature																																				X	
FrontEndTemperature																																				X	
SchedulerTemperature																																				X	
PlmDevice1Internal Temperature																																				X	
PlmDevice2Internal Temperature																																				X	
PlmDevice3Internal Temperature																																				X	
FobPort1Fpga Temperature																																				X	
FobPort2Fpga Temperature																																				X	
FobBoard Temperature																																				X	
FobDevice1Internal Temperature																																				X	
Type: RPR																																					
RprDiscoveryFrames Received	X	X	X		X	X	X	X					X	X	X		X	X	X	X									X	X	X		X	X	X		
RprDataFramesReceived	X	X	X		X	X	X	X					X	X	X		X	X	X	X									X	X	X		X	X	X		

Table B-20. Statistics for OC192c Modules with RPR and DCC

	Normal							Qos				StreamTrigger						ModeChecksum Errors					ModeDataIntegrity						Add'l									
	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats		
RprFairnessFrames Received	X	X	X		X	X	X	X					X	X	X		X	X	X	X									X	X	X		X	X	X	X		
RprFairnessFramesSent	X	X	X		X	X	X	X					X	X	X		X	X	X	X									X	X	X		X	X	X	X		
RprFairnessTimeouts	X	X	X		X	X	X	X					X	X	X		X	X	X	X									X	X	X		X	X	X	X		
RprHeaderCrcErrors	X	X	X		X	X	X	X					X	X	X		X	X	X	X									X	X	X		X	X	X	X		
RprOamFramesReceived	X	X	X		X	X	X	X					X	X	X		X	X	X	X									X	X	X		X	X	X	X		
RprPayloadCrcErrors	X	X	X		X	X	X	X					X	X	X		X	X	X	X									X	X	X		X	X	X	X		
RprProtectionFrames Received	X	X	X		X	X	X	X					X	X	X		X	X	X	X									X	X	X		X	X	X	X		

Table B-21. Statistics for 10GE Modules with BERT

	Normal								Qos						StreamTrigger						ModeChecksumErrors				ModeDataIntegrity						Add'l							
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats		
Type: User Configurable																																						
UserDefinedStat1	X	X	X	X	X	X	X	X	X								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
UserDefinedStat2	X	X	X	X	X	X	X	X	X								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CaptureTrigger	X																X																			X		
CaptureFilter	X																X																			X		
StreamTrigger1																	X	X			X	X	X	X	X	X												
StreamTrigger2																	X	X			X	X	X	X	X	X												
Type: States																																						
Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LineSpeed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DuplexMode				X																	X																	
TransmitState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CaptureState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PauseState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Type: Common																																						
FramesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FramesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BytesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BytesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Table B-21. Statistics for 10GE Modules with BERT

	Normal								Qos								StreamTrigger								ModeChecksumErrors					ModeDataIntegrity								Add'l				
	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats
FcsErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
BitsReceived	X	X	X	X	X	X	X	X								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
BitsSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
PortCpuStatus	X	X	X		X		X	X	X	X	X			X	X	X	X	X	X		X			X	X	X	X	X	X		X			X		X	X					
PortCpuDodStatus	X	X	X		X		X	X	X	X	X			X	X	X	X	X	X		X			X	X	X	X	X	X		X			X		X	X					
Type: Transmit Duration																																										
TransmitDuration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Type: Quality of Service																																										
QualityOfService0									X	X	X	X	X	X	X																											
Type: Checksum Stats																																										
IpPackets																											X															
UdpPackets																										X																
TcpPackets																										X																
IpChecksumErrors																										X																
UdpChecksumErrors																										X																
TcpChecksumErrors																										X																
Type: Data Integrity																																										
DataIntegrityFrames			X																								X															
DataIntegrityErrors			X																								X															



Table B-21. Statistics for 10GE Modules with BERT

	Normal								Qos								StreamTrigger								ModeChecks mErrors				ModeDataIntegrity								Add'l		
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats			
Type: Sequence Checking																																							
SequenceFrames				X							X											X														X			
SequenceErrors				X							X											X														X			
Type: Ethernet																																							
Fragments	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Undersize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Oversize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
VlanTaggedFramesRx	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
FlowControlFrames	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Type: Gigabit																																							
SymbolErrorFrames				X																X																			
SynchErrorFrames				X																X																			
Type: 10/100 + Gigabit																																							
SymbolErrors				X																X																			
OversizeAndCrcErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Type: POS																																							
SectionLossOfSignal																																							X
SectionLossOfFrame																																							X
SectionBip																																							X
LineAis																																							X

Table B-21. Statistics for 10GE Modules with BERT

	Normal								Qos								StreamTrigger								ModeChecks mErrors				ModeDataIntegrity								Add'l	
	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats		
LineRdi																																				X		
LineRei																																					X	
LineBip																																					X	
PathAis																																					X	
PathRdi																																					X	
PathRei																																					X	
PathBip																																					X	
PathLossOfPointer																																					X	
PathPlm																																					X	
SectionBipErroredSecs																																					X	X
SectionBipSeverlyErroredSecs																																					X	X
SectionLossOfSignalSecs																																					X	X
LineBipErroredSecs																																					X	X
LineReiErroredSecs																																					X	X
LineAisAlarmSecs																																					X	X
LineRdiUnavailableSecs																																					X	X
PathBipErroredSecs																																					X	X
PathReiErroredSecs																																					X	X
PathAisAlarmSecs																																					X	X



Table B-21. Statistics for 10GE Modules with BERT

	Normal								Qos								StreamTrigger								ModeChecksumErrors					ModeDataIntegrity								Add'l												
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	Capture	PacketGroup	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats									
PathAisUnavailableSecs														X										X	X	X		X	X																					
PathRdiUnavailableSecs														X											X	X	X		X	X																				
InputSignalStrength	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X	X																		
PosK1Byte			X				X											X																																
PosK2Byte			X				X											X																																
SrpDataFramesReceived			X				X											X																																
SrpDiscoveryFramesReceived			X				X											X																																
SrpIpsFramesReceived			X				X											X																																
SrpParityErrors			X				X											X																																
SrpUsageFramesReceived			X				X											X																																
SrpUsageStatus			X				X											X																																
SrpUsageTimeouts			X				X											X																																
Type: DCC																																																		
DccBytesReceived							X							X																																				
DccBytesSent																																																		
DccCrcErrorsReceived							X							X																																				
DccFramesReceived							X							X																																				
DccFramesSent																																																		
DccFramingErrorsReceived																																																		

Table B-21. Statistics for 10GE Modules with BERT

	Normal								Qos						StreamTrigger						ModeChecks mErrors				ModeDataIntegrity						Add'l			
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats	
Type: OC192 - Temperature																																		
DMATemperature																																		X
CaptureTemperature																																		X
LatencyTemperature																																		X
BackgroundTemperature																																		
OverlayTemperature																																		X
FrontEndTemperature																																		X
SchedulerTemperature																																		X
PlmDevice1Internal Temperature																																		X
PlmDevice2Internal Temperature																																		X
PlmDevice3Internal Temperature																																		X
FobPort1Fpga Temperature																																		X
FobPort2Fpga Temperature																																		
FobBoardTemperature																																		X
FobDevice1Internal Temperature																																		X
Type: 10 Gig																																		
PauseAcknowledge	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	



Table B-21. Statistics for 10GE Modules with BERT

	Normal								Qos					StreamTrigger					ModeChecksumErrors					ModeDataIntegrity					Add'l									
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats					
PauseEndFrames	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X											X	X			X	X					
PauseOverwrite	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X											X	X			X	X	X	X			
10GigLanTxFpga Temperature																																						
10GigLanRxFpga Temperature																																						
CodingErrorFrames Received																																						
EErrorCharacterFrames Received																																						
DroppedFrames																																						
Type: Link Fault Signaling																																						
LinkFaultState	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X										X	X			X	X	X	X				
LocalFaults	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X										X	X			X	X	X	X				
RemoteFaults	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X									X	X			X	X	X	X					

Table B-22. Statistics for 10G UNIPHY Modules with BERT

	Normal								Qos						StreamTrigger						ModeCheck sumErrors					ModeDataIntegrity						Add'l																
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats						
Type: User Configurable																																																
UserDefinedStat1	X	X	X	X	X	X	X	X	X								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
UserDefinedStat2	X	X	X	X	X	X	X	X	X								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
CaptureTrigger	X																X																			X	X											
CaptureFilter	X																X																			X												
StreamTrigger1																	X	X					X	X	X	X	X																					
StreamTrigger2																	X	X					X	X	X	X	X																					
Type: States																																																
Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LineSpeed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
DuplexMode				X																	X																											
TransmitState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CaptureState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
PauseState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Type: Common																																																
FramesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
FramesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
BytesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
BytesReceived	X	X	X	X	X	X	X	X	X								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			

Table B-22. Statistics for 10G UNIPHY Modules with BERT

	Normal								Qos						StreamTrigger						ModeCheck sumErrors				ModeDataIntegrity						Add'l																	
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats						
FcsErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									
BitsReceived	X	X	X	X	X	X	X	X								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
BitsSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
PortCpuStatus	X	X	X		X		X	X	X	X	X			X	X	X	X	X	X		X			X	X	X	X	X	X		X					X	X											
PortCpuDodStatus	X	X	X	X			X	X	X	X	X			X	X	X	X	X	X		X			X	X	X	X	X	X		X					X	X											
Type: Transmit Duration																																																
TransmitDuration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
Type: Quality of Service																																																
QualityOfService0									X	X	X	X	X	X																																		
Type: Checksum Stats																																																
Ippackets																											X																					
UdpPackets																											X																					
TcpPackets																											X																					
IpChecksumErrors																											X																					
UdpChecksumErrors																											X																					
TcpChecksumErrors																											X																					
Type: Data Integrity																																																
DataIntegrityFrames			X																									X																				
DataIntegrityErrors			X																									X																				
Type: Sequence Checking																																																

Table B-22. Statistics for 10G UNIPHY Modules with BERT

	Normal							Qos							StreamTrigger							ModeCheck sumErrors					ModeDataIntegrity							Add'l								
	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats
SequenceFrames					X						X											X																				
SequenceErrors					X						X											X																				
Type: Ethernet																																										
Fragments			X	X	X			X	X	X	X	X	X	X	X				X	X	X							X			X	X	X									
Undersize			X	X	X			X	X	X	X	X	X	X	X				X	X	X						X			X	X	X										
Oversize			X	X	X			X	X	X	X	X	X	X	X				X	X	X						X			X	X	X										
VlanTaggedFramesRx			X	X	X			X	X	X	X	X	X	X	X				X	X	X						X			X	X	X										
FlowControlFrames			X	X	X			X	X	X	X	X	X	X	X				X	X	X						X			X	X	X										
Type: Gigabit																																										
SymbolErrorFrames			X																X									X			X											
SynchErrorFrames			X																X									X														
Type: 10/100 + Gigabit																																										
SymbolErrors			X																X									X			X											
OversizeAndCrcErrors			X	X	X			X	X	X	X	X	X	X	X				X	X	X						X			X	X	X										
Type: POS																																										
SectionLossOfSignal																																								X		
SectionLossOfFrame																																								X		
SectionBip																																								X		
LineAis																																								X		
LineRdi																																								X		



Table B-22. Statistics for 10G UNIPHY Modules with BERT

	Normal								Qos						StreamTrigger								ModeCheck sumErrors				ModeDataIntegrity						Add'l					
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats		
LineRei																																				X		
LineBip																																				X		
PathAis																																				X		
PathRdi																																				X		
PathRei																																				X		
PathBip																																				X		
PathLossOfPointer																																				X		
PathPlm																																				X		
SectionBipErroredSecs													X													X	X	X								X	X	
SectionBipSeverlyErrored Secs												X														X	X	X									X	X
SectionLossOfSignalSecs												X														X	X	X									X	X
LineBipErroredSecs												X														X	X	X									X	X
LineReiErroredSecs												X														X	X	X									X	X
LineAisAlarmSecs												X														X	X	X									X	X
LineRdiUnavailableSecs												X														X	X	X									X	X
PathBipErroredSecs												X														X	X	X									X	X
PathReiErroredSecs												X														X	X	X									X	X
PathAisAlarmSecs												X														X	X	X									X	X
PathAisUnavailableSecs												X														X	X	X									X	X
PathRdiUnavailableSecs												X														X	X	X									X	X

Table B-22. Statistics for 10G UNIPHY Modules with BERT

	Normal								Qos								StreamTrigger								ModeCheck sumErrors					ModeDataIntegrity								Add'l			
	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats
InputSignalStrength	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
PosK1Byte																																									
PosK2Byte																																									
SrpDataFramesReceived																																									
SrpDiscoveryFrames Received																																									
SrpIpsFramesReceived																																									
SrpParityErrors																																									
SrpUsageFramesReceived																																									
SrpUsageStatus																																									
SrpUsageTimeouts																																									
Type: DCC																																									
DccBytesReceived							X							X										X												X					
DccBytesSent																																									
DccCrcErrorsReceived							X						X											X												X					
DccFramesReceived							X						X											X												X					
DccFramesSent																																									
DccFramingErrors Received																																									
Type: OC192 - Temperature																																									

Table B-22. Statistics for 10G UNIPHY Modules with BERT

	Normal							Qos					StreamTrigger						ModeCheck sumErrors				ModeDataIntegrity						Add'l				
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats
DMATemperature																																	X
CaptureTemperature																																	X
LatencyTemperature																																	X
BackgroundTemperature																																	
OverlayTemperature																																	X
FrontEndTemperature																																	X
SchedulerTemperature																																	X
PlmDevice1Internal Temperature																																	X
PlmDevice2Internal Temperature																																	X
PlmDevice3Internal Temperature																																	X
FobPort1FpgaTemperature																																	X
FobPort2FpgaTemperature																																	
FobBoardTemperature																																	X
FobDevice1Internal Temperature																																	X
Type: 10 Gig																																	
PauseAcknowledge						X	X		X	X	X	X	X	X	X													X	X				
PauseEndFrames						X	X		X	X	X	X	X	X	X													X	X				
PauseOverwrite						X	X		X	X	X	X	X	X	X													X	X				

Table B-22. Statistics for 10G UNIPHY Modules with BERT

	Normal								Qos								StreamTrigger								ModeCheck sumErrors				ModeDataIntegrity				Add'l								
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats
RprHeaderCrcErrors	X	X	X	X	X		X	X								X	X	X	X	X							X	X	X	X	X										
RprOamFramesReceived	X	X	X	X	X		X	X								X	X	X	X	X	X							X	X	X	X	X									
RprPayloadCrcErrors	X	X	X	X	X		X	X								X	X	X	X	X	X							X	X	X	X	X									
RprProtectionFrames Received	X	X	X	X	X		X	X								X	X	X	X	X	X							X	X	X	X	X									

Table B-23. Statistics for 10GE LSM Modules (except NGY)

Statistics Mode	Normal								Qos								StreamTrigger								ModeCheck sumErrors				ModeDataIntegrity				Add'l									
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats
Type: User Configurable																																										
UserDefinedStat1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
UserDefinedStat2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

Table B-23. Statistics for 10GE LSM Modules (except NGY)

Statistics Mode	Normal								Qos								StreamTrigger								ModeCheck sumErrors					ModeDataIntegrity								Add'l									
	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats				
CaptureTrigger	X	X						X	X	X							X	X	X							X	X					X	X	X								X					
CaptureFilter	X	X						X	X	X							X	X	X							X	X															X					
StreamTrigger1	X	X	X		X			X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X																X				
StreamTrigger2	X	X	X		X			X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X																	X			
Type: States																																															
Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
LineSpeed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
DuplexMode				X																	X																										
TransmitState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CaptureState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
PauseState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Type: Common																																															
FramesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
FramesReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
BytesSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
BytesReceived	X	X	X	X	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
FcsErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
BitsReceived	X	X	X	X	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
BitsSent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
PortCpuStatus	X	X		X				X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

Table B-23. Statistics for 10GE LSM Modules (except NGY)

Statistics Mode	Normal								Qos								StreamTrigger								ModeCheck sumErrors					ModeDataIntegrity								Add'l									
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats				
PortCpuDodStatus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
Type: Transmit Duration																																															
TransmitDuration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
Type: Quality of Service																																															
QualityOfService0									X	X	X	X	X	X	X	X																															
Type: Checksum Stats																																															
IpPackets																												X																			
UdpPackets																												X																			
TcpPackets																												X																			
IpChecksumErrors																												X																			
UdpChecksumErrors																												X																			
TcpChecksumErrors																												X																			
Type: Data Integrity																																															
DataIntegrityFrames			X																										X																		
DataIntegrityErrors			X																										X																		
Type: Sequence Checking																																															
SequenceFrames					X																																										
SequenceErrors					X																																										
Type: Ethernet																																															
Fragments	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																				

Table B-23. Statistics for 10GE LSM Modules (except NGY)

Statistics Mode	Normal								Qos								StreamTrigger								ModeCheck sumErrors					ModeDataIntegrity					Add'l												
	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats										
Undersize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X				X	X	X	X	X	X	X	X	X				
Oversize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X				X	X	X	X	X	X	X	X	X	X	X		
VlanTaggedFramesRx	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X				X	X	X	X	X	X	X	X	X	X	X		
FlowControlFrames	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X				X	X	X	X	X	X	X	X	X	X	X		
Type: Gigabit																																															
SymbolErrorFrames				X																		X									X																
SynchErrorFrames				X																		X									X																
Type: 10/100 + Gigabit																																															
SymbolErrors				X																		X									X																
OversizeAndCrcErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X				X	X	X	X	X	X	X	X	X	X	X		
Type: POS																																															
SectionLossOfSignal																																													X		
SectionLossOfFrame																																													X		
SectionBip																																													X		
LineAis																																													X		
LineRdi																																													X		
LineRei																																													X		
LineBip																																													X		
PathAis																																													X		
PathRdi																																													X		

Table B-23. Statistics for 10GE LSM Modules (except NGY)

Statistics Mode	Normal								Qos								StreamTrigger								ModeCheck sumErrors					ModeDataIntegrity							Add'l													
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats							
PathRei																																												X						
PathBip																																														X				
PathLossOfPointer																																													X					
PathPlm																																														X				
SectionBipErroredSecs																																															X			
SectionBipSeverlyErrored Secs																																															X			
SectionLossOfSignalSecs																																															X			
LineBipErroredSecs																																															X			
LineReiErroredSecs																																															X			
LineAisAlarmSecs																																															X			
LineRdiUnavailableSecs																																															X			
PathBipErroredSecs																																															X			
PathReiErroredSecs																																															X			
PathAisAlarmSecs																																															X			
PathAisUnavailableSecs																																															X			
PathRdiUnavailableSecs																																															X			
InputSignalStrength	X	X	X		X	X	X	X	X	X	X	X	X	X			X	X	X	X																												X		
PosK1Byte																																																		
PosK2Byte																																																		
SrpDataFramesReceived																																																		

Table B-23. Statistics for 10GE LSM Modules (except NGY)

Statistics Mode	Normal							Qos						StreamTrigger						ModeCheck sumErrors					ModeDataIntegrity						Add'l									
	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats						
SrpDiscoveryFramesReceived																																								
SrpIpsFramesReceived																																								
SrpParityErrors																																								
SrpUsageFramesReceived																																								
SrpUsageStatus																																								
SrpUsageTimeouts																																								
Type: DCC																																								
DccBytesReceived							X								X								X																	
DccBytesSent																																								
DccCrcErrorsReceived							X								X								X																	
DccFramesReceived							X								X								X																	
DccFramesSent																																								
DccFramingErrorsReceived																																								
Type: OC192 - Temperature																																								
DMATemperature																																								X
CaptureTemperature																																							X	
LatencyTemperature																																							X	
BackgroundTemperature																																							X	

Table B-23. Statistics for 10GE LSM Modules (except NGY)

Statistics Mode	Normal								Qos								StreamTrigger								ModeCheck sumErrors					ModeDataIntegrity								Add'l								
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats			
OverlayTemperature																																													X	
FrontEndTemperature																																														X
SchedulerTemperature																																														
PlmDevice1Internal Temperature																																														
PlmDevice2Internal Temperature																																														
PlmDevice3Internal Temperature																																														
FobPort1Fpga Temperature																																														
FobPort2Fpga Temperature																																														
FobBoardTemperature																																														
FobDevice1Internal Temperature																																														
Type: 10 Gig																																														
PauseAcknowledge	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																			
PauseEndFrames	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																			
PauseOverwrite	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																			
10GigLanTxFpga Temperature																																														
10GigLanRxFpga Temperature																																														

Table B-23. Statistics for 10GE LSM Modules (except NGY)

Statistics Mode	Normal								Qos								StreamTrigger								ModeCheck sumErrors						ModeDataIntegrity						Add'l	
	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFIRSTTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats	
CodingErrorFrames Received	X	X	X	X				X	X	X	X	X				X	X	X	X	X							X	X	X	X				X				
EErrorCharacterFrames Received	X	X	X	X				X	X	X	X	X				X	X	X	X	X							X	X	X	X				X				
DroppedFrames	X	X	X	X				X	X	X	X	X				X	X	X	X	X							X	X	X	X				X				
Type: Link Fault Signaling																																						
LinkFaultState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
LocalFaults	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
RemoteFaults	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Type: RPR																																						
RprDiscoveryFrames Received							X																													X		
RprDataFramesReceived							X																														X	
RprFairnessFrames Received							X																														X	
RprFairnessFramesSent							X																														X	
RprFairnessTimeouts							X																														X	
RprHeaderCrcErrors							X																														X	
RprOamFramesReceived							X																														X	
RprPayloadCrcErrors							X																														X	

Table B-23. Statistics for 10GE LSM Modules (except NGY)

Statistics Mode	Normal								Qos								StreamTrigger								ModeCheck sumErrors					ModeDataIntegrity					Add'l				
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	TemperatureSensorsStats		
RprProtectionFrames Received							X																																
Type: Ordered Sets																																							
LocalOrderedSetsSent	X	X	X	X				X	X	X	X	X	X				X	X	X	X	X	X																	
LocalOrderedSets Received	X	X	X	X				X	X	X	X	X	X				X	X	X	X	X	X																	
RemoteOrderedSetsSent	X	X	X	X				X	X	X	X	X	X				X	X	X	X	X	X																	
RemoteOrderedSets Received	X	X	X	X				X	X	X	X	X	X				X	X	X	X	X	X																	
CustomOrderedSetsSent	X	X	X	X				X	X	X	X	X	X				X	X	X	X	X	X																	
CustomOrderedSets Received	X	X	X	X				X	X	X	X	X	X				X	X	X	X	X	X																	

Table B-24. Statistics for NGY Modules

Statistics Mode Receive Mode	Normal				Qos			
	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup
Type: User Configurable								
UserDefinedStat1	X	X	X	X	X	X	X	X
UserDefinedStat2	X	X	X	X	X	X	X	X
UserDefinedStatByteCount1	X	X	X	X	X	X	X	X
UserDefinedStatByteCount2	X	X	X	X	X	X	X	X
CaptureTrigger	X			X	X			X
CaptureFilter	X			X	X			X
StreamTrigger1	X	X	X	X	X	X	X	X
StreamTrigger2	X	X	X	X	X	X	X	X
Type: States								
Link	X	X	X	X	X	X	X	X
LineSpeed	X	X	X	X	X	X	X	X
DuplexMode								
TransmitState	X	X	X	X	X	X	X	X
CaptureState	X	X	X	X	X	X	X	X
PauseState	X	X	X	X	X	X	X	X
Type: Common								
FramesSent	X	X	X	X	X	X	X	X
FramesReceived	X	X	X	X	X	X	X	X
BytesSent	X	X	X	X	X	X	X	X

Table B-24. Statistics for NGY Modules

Statistics Mode Receive Mode	Normal				Qos			
	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup
BytesReceived	X	X	X	X	X	X	X	X
FcsErrors	X	X	X	X	X	X	X	X
BitsReceived	X	X	X	X	X	X	X	X
BitsSent	X	X	X	X	X	X	X	X
PortCpuStatus	X	X	X	X	X	X	X	X
PortCpuDodStatus	X	X	X	X	X	X	X	X
Type: Transmit Duration								
TransmitDuration	X	X	X	X	X	X	X	X
Type: Quality of Service								
QualityOfService0					X	X	X	X
Type: Checksum Stats								
IPv4Packets	X	X	X	X	X	X	X	X
UdpPackets	X	X	X	X	X	X	X	X
TcpPackets	X	X	X	X	X	X	X	X
IPv4ChecksumErrors	X	X	X	X	X	X	X	X
UdpChecksumErrors	X	X	X	X	X	X	X	X
TcpChecksumErrors	X	X	X	X	X	X	X	X
Type: Data Integrity								
DataIntegrityFrames		X				X		
DataIntegrityErrors		X				X		
Type: Sequence Checking								

Table B-24. Statistics for NGY Modules

Statistics Mode Receive Mode	Normal				Qos			
	Capture	RxDatIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	RxDatIntegrity	RxSequenceChecking	RxModeWidePacketGroup
SequenceFrames			X				X	
SequenceErrors			X				X	
Type: Ethernet								
Fragments	X	X	X	X	X	X	X	X
Undersize	X	X	X	X	X	X	X	X
Oversize	X	X	X	X	X	X	X	X
VlanTaggedFramesRx	X	X	X	X	X	X	X	X
FlowControlFrames	X	X	X	X	X	X	X	X
Type: Gigabit								
SymbolErrorFrames								
SynchErrorFrames								
Type: 10/100 + Gigabit								
SymbolErrors								
OversizeAndCrcErrors	X	X	X	X	X	X	X	X
Type: POS								
SectionLossOfSignal								
SectionLossOfFrame								
SectionBip								
LineAis								
LineRdi								
LineRei								

Table B-24. Statistics for NGY Modules

Statistics Mode Receive Mode	Normal				Qos			
	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup
LineBip								
PathAis								
PathRdi								
PathRei								
PathBip								
PathLossOfPointer								
PathPlm								
SectionBipErroredSecs								
SectionBipSeverlyErrored Secs								
SectionLossOfSignalSecs								
LineBipErroredSecs								
LineReiErroredSecs								
LineAisAlarmSecs								
LineRdiUnavailableSecs								
PathBipErroredSecs								
PathReiErroredSecs								
PathAisAlarmSecs								
PathAisUnavailableSecs								
PathRdiUnavailableSecs								
InputSignalStrength	X	X	X	X	X	X	X	X

Table B-24. Statistics for NGY Modules

Statistics Mode Receive Mode	Normal				Qos			
	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup
PosK1Byte								
PosK2Byte								
SrpDataFramesReceived								
SrpDiscoveryFrames Received								
SrpIpsFramesReceived								
SrpParityErrors								
SrpUsageFramesReceived								
SrpUsageStatus								
SrpUsageTimeouts								
Type: DCC								
DccBytesReceived								
DccBytesSent								
DccCrcErrorsReceived								
DccFramesReceived								
DccFramesSent								
DccFramingErrors Received								
Type: OC192 - Temperature								
DMATemperature								
CaptureTemperature								

Table B-24. Statistics for NGY Modules

Statistics Mode Receive Mode	Normal				Qos			
	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup
LatencyTemperature								
BackgroundTemperature								
OverlayTemperature								
FrontEndTemperature								
SchedulerTemperature								
PlmDevice1Internal Temperature								
PlmDevice2Internal Temperature								
PlmDevice3Internal Temperature								
FobPort1Fpga Temperature								
FobPort2Fpga Temperature								
FobBoardTemperature								
FobDevice1Internal Temperature								
Type: 10 Gig								
PauseAcknowledge	X	X	X	X	X	X	X	X
PauseEndFrames	X	X	X	X	X	X	X	X
PauseOverwrite	X	X	X	X	X	X	X	X
10GigLanTxFpga Temperature								

Table B-24. Statistics for NGY Modules

Statistics Mode Receive Mode	Normal				Qos			
	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup
10GigLanRxFpga Temperature								
CodingErrorFrames Received	X	X	X	X	X	X	X	X
EErrorCharacterFrames Received	X	X	X	X	X	X	X	X
DroppedFrames	X	X	X	X	X	X	X	X
Type: Link Fault Signaling								
LinkFaultState	X	X	X	X	X	X	X	X
LocalFaults	X	X	X	X	X	X	X	X
RemoteFaults	X	X	X	X	X	X	X	X
Type: RPR								
RprDiscoveryFrames Received								
RprDataFramesReceived								
RprFairnessFrames Received								
RprFairnessFramesSent								
RprFairnessTimeouts								
RprHeaderCrcErrors								
RprOamFramesReceived								
RprPayloadCrcErrors								

Table B-24. Statistics for NGY Modules

Statistics Mode Receive Mode	Normal				Qos			
	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup
RprProtectionFrames Received								
Type: Ordered Sets								
LocalOrderedSetsSent	X	X	X	X	X	X	X	X
LocalOrderedSets Received	X	X	X	X	X	X	X	X
RemoteOrderedSetsSent	X	X	X	X	X	X	X	X
RemoteOrderedSets Received	X	X	X	X	X	X	X	X
CustomOrderedSetsSent	X	X	X	X	X	X	X	X
CustomOrderedSets Received	X	X	X	X	X	X	X	X

Table B-25. Statistics for 10G MSM modules

	Normal								Qos								StreamTrigger								ModeChecksum Errors								ModeDataIntegrity								Add'l																
	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Temperature	Sensors	Stats										
Type: User Configurable																																																									
UserDefinedStat1	X	X	X	X	X		X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									
UserDefinedStat2	X	X	X	X	X		X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									
CaptureTrigger	X	X					X	X	X	X	X	X					X	X	X			X	X						X	X									X																		
CaptureFilter	X	X					X	X	X	X	X	X					X	X	X			X	X						X	X									X																		
StreamTrigger1	X	X	X		X		X	X	X	X	X	X	X	X			X	X	X			X	X	X		X		X	X	X	X	X	X		X		X	X	X	X	X	X		X		X	X	X									
StreamTrigger2	X	X	X		X		X	X	X	X	X	X	X	X			X	X	X			X	X	X		X		X	X	X	X	X	X		X		X	X	X	X	X	X		X		X	X	X									
Type: States																																																									
Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
LineSpeed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
DuplexMode				X																				X																																	
TransmitState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
CaptureState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
PauseState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
Type: Common																																																									
FramesSent	X	X	X	X	X		X	X	X	X	X	X	X	X			X	X	X			X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									
FramesReceived	X	X	X	X	X		X	X	X	X	X	X	X	X			X	X	X			X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									
BytesSent	X	X	X	X	X		X	X	X	X	X	X	X	X			X	X	X			X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									
BytesReceived	X	X	X	X	X		X	X	X	X	X	X	X	X			X	X	X			X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									

Table B-25. Statistics for 10G MSM modules

	Normal								Qos								StreamTrigger								ModeChecksum Errors								ModeDataIntegrity								Add'l TemperatureSensorsStats					
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup						
FcsErrors	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
BitsReceived	X	X	X	X	X		X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
BitsSent	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
PortCpuStatus	X	X	X		X		X	X	X	X	X	X			X	X	X	X	X	X	X		X		X	X	X	X		X									X	X						
PortCpuDodStatus	X	X	X		X		X	X	X	X	X	X			X	X	X	X	X	X	X		X		X	X	X	X		X									X	X						
Type: Transmit Duration																																														
TransmitDuration	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
Type: Quality of Service																																														
QualityOfService0									X	X	X	X	X	X	X	X																														
Type: Checksum Stats																																														
Ippackets																									X	X	X		X																	
UdpPackets																									X	X	X		X																	
TcpPackets																									X	X	X		X																	
IpChecksumErrors																									X	X	X		X																	
UdpChecksumErrors																									X	X	X		X																	
TcpChecksumErrors																									X	X	X		X																	
Type: Data Integrity																																														
DataIntegrityFrames			X								X																																X			
DataIntegrityErrors			X								X																																X			
Type: Sequence Checking																																														

Table B-25. Statistics for 10G MSM modules

	Normal							Qos							StreamTrigger							ModeChecksum Errors							ModeDataIntegrity							Add'l				
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Temperature	Sensors	Stats		
SequenceFrames					X							X																												
SequenceErrors					X							X																												
Type: Ethernet																																								
Fragments	X	X	X	X	X			X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X															
Undersize	X	X	X	X	X			X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X															
Oversize	X	X	X	X	X			X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X															
VlanTaggedFramesRx	X	X	X	X	X			X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X															
FlowControlFrames	X	X	X	X	X			X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X															
Type: Gigabit																																								
SymbolErrorFrames				X																	X																			
SynchErrorFrames				X																	X																			
Type: 10/100 + Gigabit																																								
SymbolErrors				X																	X																			
OversizeAndCrcErrors	X	X	X	X	X			X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X															
Type: POS																																								
SectionLossOfSignal						X																	X																	
SectionLossOfFrame																																								
SectionBip																																								
LineAis																																								
LineRdi																																								



Table B-25. Statistics for 10G MSM modules

	Normal								Qos						StreamTrigger						ModeChecksum Errors						ModeDataIntegrity						Add'l	
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	TemperatureSensorsStats	
LineRei																																		
LineBip																																		
PathAis																																		
PathRdi																																		
PathRei																																		
PathBip																																		
PathLossOfPointer																																		
PathPlm																																		
SectionBipErroredSecs																X																		
SectionBipSeverlyErrored Secs																X																		
SectionLossOfSignalSecs																X																		
LineBipErroredSecs																X																		
LineReiErroredSecs																X																		
LineAisAlarmSecs																X																		
LineRdiUnavailableSecs																X																		
PathBipErroredSecs																X																		
PathReiErroredSecs																X																		
PathAisAlarmSecs																X																		
PathAisUnavailableSecs																X																		
PathRdiUnavailableSecs																X																		

Table B-25. Statistics for 10G MSM modules

	Normal								Qos								StreamTrigger								ModeChecksum Errors				ModeDataIntegrity								Add'l
	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Temperature	Sensors	Stats		
InputSignalStrength	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X								X	X	X		X	X	X	X	X				
PosK1Byte																																					
PosK2Byte																																					
SrpDataFramesReceived																																					
SrpDiscoveryFrames Received																																					
SrpIpsFramesReceived																																					
SrpParityErrors																																					
SrpUsageFramesReceived																																					
SrpUsageStatus																																					
SrpUsageTimeouts																																					
Type: DCC																																					
DccBytesReceived							X									X								X								X					
DccBytesSent																																					
DccCrcErrorsReceived							X									X								X									X				
DccFramesReceived							X									X								X									X				
DccFramesSent																																					
DccFramingErrors Received																																					
Type: BERT																																					
BertStatus					X																				X												

Table B-25. Statistics for 10G MSM modules

	Normal								Qos						StreamTrigger						ModeChecksum Errors						ModeDataIntegrity						Add'l									
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Temperature	Sensors	Stats
BertBitsSent					X																																					
BertBitsReceived					X																																					
BertBitErrorsSent					X																																					
BertBitErrorsReceived					X																																					
BertErroredBlocks					X																																					
BertErroredSeconds					X																																					
BertSeverelyErrored Seconds					X																																					
BertErrorFreeSeconds					X																																					
BertAvailableSeconds					X																																					
BertUnavailableSeconds					X																																					
BertBlockErrorState					X																																					
BertBackgroundBlock Errors					X																																					
BertBitErrorRatio					X																																					
BertErroredSecondRatio					X																																					
BertSeverelyErroredSecond Ratio					X																																					
BertBackgroundBlockError Ratio					X																																					
BertNumberMismatched Ones					X																																					

Table B-25. Statistics for 10G MSM modules

	Normal							Qos							StreamTrigger							ModeChecksum Errors							ModeDataIntegrity							Add'l				
	Capture	PacketGroup	RxDatIntegrity	RxFstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Temperature	Sensors	Stats				
BertMismatchedOnesRatio						X																																		
BertNumberMismatched Zeros						X																																		
BertMismatchedZerosRatio						X																																		
BertElapsedTestTime						X																																		
BertUnframedOutputSignal Strength																																								
BertUnframedDetectedLine Rate																																								
BertDeskewPatternLock																																								
BertRxDeskewErrored Frames																																								
BertRxDeskewErrorFree Frames																																								
BertRxDeskewLossOfFrame																																								
BertTimeSinceLastError																																								
BertTriggerCount																																								
BertTxDeskewBitErrors																																								
BertTxDeskewErrored Frames																																								

Table B-25. Statistics for 10G MSM modules

	Normal								Qos						StreamTrigger						ModeChecksum Errors						ModeDataIntegrity						Add'l								
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	TemperatureSensorsStats	
BertTxDeskewErrorFree Frames																																									
Type: Service Disruption																																									
BertLastServiceDisruption Time					X									X										X																	
BertMinServiceDisruption Time					X									X										X																	
BertMaxServiceDisruption Time					X									X										X																	
BertServiceDisruption Cumulative					X									X										X																	
Type: OC192 - Temperature																																									
DMATemperature																																								X	
CaptureTemperature																																								X	
LatencyTemperature																																								X	
BackgroundTemperature																																								X	
OverlayTemperature																																								X	
FrontEndTemperature																																								X	
SchedulerTemperature																																									
PlmDevice1Internal Temperature																																									

Table B-25. Statistics for 10G MSM modules

	Normal							Qos							StreamTrigger							ModeChecksum Errors						ModeDataIntegrity						Add'l						
	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	TemperatureSensorsStats				
PlmDevice2Internal Temperature																																								
PlmDevice3Internal Temperature																																								
FobPort1Fpga Temperature																																								
FobPort2Fpga Temperature																																								
FobBoard Temperature																																								
FobDevice1Internal Temperature																																								
Type: 10 Gig																																								
PauseAcknowledge	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
PauseEndFrames	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PauseOverwrite	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10GigLanTxFpga Temperature																																								
10GigLanRxFpga Temperature																																								
CodingErrorFrames Received	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
EErrorCharacterFrames Received	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
DroppedFrames	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	



Table B-25. Statistics for 10G MSM modules

	Normal								Qos								StreamTrigger								ModeChecksum Errors								ModeDataIntegrity								Add'l		
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	TemperatureSensorsStats	
Type: Link Fault Signaling																																											
LinkFaultState	X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
LocalFaults	X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
RemoteFaults	X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Type: RPR																																											
RprDiscoveryFrames Received							X																		X																X		
RprDataFramesReceived							X																		X																X		
RprFairnessFrames Received							X																		X															X			
RprFairnessFramesSent							X																		X															X			
RprFairnessTimeouts							X																		X															X			
RprHeaderCrcErrors							X																		X														X				
RprOamFramesReceived							X																		X														X				
RprPayloadCrcErrors							X																		X														X				
RprProtectionFrames Received							X																		X													X					
Type: Ordered Sets																																											
LocalOrderedSetsSent																																											
LocalOrderedSets Received	X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Table B-25. Statistics for 10G MSM modules

	Normal								Qos								StreamTrigger								ModeChecksum Errors				ModeDataIntegrity				Add'l				
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	TemperatureSensorsStats	
RemoteOrderedSetsSent																																					
RemoteOrderedSets Received	X	X	X		X			X	X	X	X	X	X				X	X	X	X		X														X	
CustomOrderedSetsSent																																					
CustomOrderedSets Received	X	X	X		X			X	X	X	X	X	X				X	X	X	X		X														X	

Table B-26. Statistics for ATM Modules

	Normal								Qos								StreamTrigger								ModeChecksum Errors				ModeDataIntegrity				Add'l				
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	
Type: User Configurable																																					
UserDefinedStat1	X	X	X	X	X			X	X	X	X	X	X				X	X	X	X		X															



Table B-26. Statistics for ATM Modules

	Normal								Qos								StreamTrigger								ModeChecksum Errors								ModeDataIntegrity								Add'l Pos Extended Stats																												
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup																																					
UserDefinedStat2	X	X	X	X	X		X	X	X									X	X	X	X	X	X							X									X	X	X	X	X	X	X	X	X	X																					
CaptureTrigger	X							X									X	X																			X	X																		X													
CaptureFilter	X							X									X	X																		X	X																		X														
StreamTrigger1								X									X	X	X	X		X			X	X	X																													X													
StreamTrigger2								X									X	X	X	X		X			X	X	X																													X													
Type: States																																																																					
Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																						
LineSpeed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																							
DuplexMode				X																X										X																																							
TransmitState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																							
CaptureState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																							
PauseState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																							
Type: Common																																																																					
FramesSent				X			X	X	X						X	X	X					X			X	X	X					X			X							X			X			X																					
FramesReceived				X			X	X	X						X	X	X					X			X	X	X					X			X							X			X			X																					
BytesSent				X			X	X	X						X	X	X					X			X	X	X					X			X							X			X			X																					
BytesReceived				X			X	X	X						X	X	X					X			X	X	X					X			X							X			X			X																					
FcsErrors	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																							
BitsReceived	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																							
BitsSent	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																							

Table B-26. Statistics for ATM Modules

	Normal							Qos							StreamTrigger							ModeChecksum Errors							ModeDataIntegrity							Add'l		
	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats		
PortCpuStatus	X	X	X	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
PortCpuDodStatus	X	X	X	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Type: Transmit Duration																																						
TransmitDuration	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Type: Quality of Service																																						
QualityOfService0										X	X	X	X	X	X	X	X																					
Type: Checksum Stats																																						
IpPackets																			X	X	X		X															
UdpPackets																			X	X	X		X															
TcpPackets																			X	X	X		X															
IpChecksumErrors																			X	X	X		X															
UdpChecksumErrors																			X	X	X		X															
TcpChecksumErrors																			X	X	X		X															
Type: Data Integrity																																						
DataIntegrityFrames																																						
DataIntegrityErrors																																						
Type: Sequence Checking																																						
SequenceFrames					X																																	
SequenceErrors					X																																	

Table B-26. Statistics for ATM Modules

	Normal							Qos							StreamTrigger							ModeChecksum Errors							ModeDataIntegrity							Add'l									
	Capture	PacketGroup	RxDatIntegrity	RxFirsTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirsTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirsTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirsTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats
Type: Ethernet																																													
Fragments				X		X	X							X	X	X	X					X																			X	X	X	X	
Undersize				X		X	X							X	X	X	X					X																			X	X	X	X	
Oversize				X		X	X							X	X	X	X					X																			X	X	X	X	
VlanTaggedFramesRx				X		X	X							X	X	X	X					X																			X	X	X	X	
FlowControlFrames				X		X	X							X	X	X	X					X																			X	X	X	X	
Type: Gigabit																																													
SymbolErrorFrames				X										X								X																			X				
SynchErrorFrames				X										X								X																			X				
Type: 10/100 + Gigabit																																													
SymbolErrors				X										X								X																			X				
OversizeAndCrcErrors				X		X	X							X	X	X	X					X																			X	X	X	X	
Type: POS																																													
SectionLossOfSignal						X																		X																				X	
SectionLossOfFrame																																												X	
SectionBip																																												X	
LineAis																																												X	
LineRdi																																												X	
LineRei																																												X	
LineBip																																												X	



Table B-26. Statistics for ATM Modules

	Normal								Qos								StreamTrigger								ModeChecksum Errors								ModeDataIntegrity								Add'l
	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats
PathAis																																									X
PathRdi																																									X
PathRei																																									X
PathBip																																									X
PathLossOfPointer																																									X
PathPlm																																									X
SectionBipErroredSecs																X																								X	
SectionBipSeverlyErrored Secs																X																									X
SectionLossOfSignalSecs																X																									X
LineBipErroredSecs																X																									X
LineReiErroredSecs																X																									X
LineAisAlarmSecs																X																									X
LineRdiUnavailableSecs																X																									X
PathBipErroredSecs																X																									X
PathReiErroredSecs																X																									X
PathAisAlarmSecs																X																									X
PathAisUnavailableSecs																X																									X
PathRdiUnavailableSecs																X																									X
InputSignalStrength							X	X	X									X	X	X																				X	

Table B-26. Statistics for ATM Modules

	Normal								Qos								StreamTrigger								ModeChecksum Errors								ModeDataIntegrity								Add'l		
	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDatIntegrity	RxFirTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats		
PosK1Byte																																											
PosK2Byte																																											
SrpDataFramesReceived																																											
SrpDiscoveryFrames Received																																											
SrpIpsFramesReceived																																											
SrpParityErrors																																											
SrpUsageFramesReceived																																											
SrpUsageStatus																																											
SrpUsageTimeouts																																											
Type: DCC																																											
DccBytesReceived							X									X									X													X					
DccBytesSent																																											
DccCrcErrorsReceived							X									X									X													X					
DccFramesReceived							X									X									X													X					
DccFramesSent																																											
DccFramingErrors Received																																											
Type: BERT																																											
BertStatus						X																			X																		
BertBitsSent					X																																						



Table B-26. Statistics for ATM Modules

	Normal								Qos								StreamTrigger								ModeChecksum Errors								ModeDataIntegrity								Add'l
	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats							
BertBitsReceived						X																																			
BertBitErrorsSent						X																																			
BertBitErrorsReceived						X																																			
BertErroredBlocks						X																																			
BertErroredSeconds						X																																			
BertSeverelyErrored Seconds						X																																			
BertErrorFreeSeconds						X																																			
BertAvailableSeconds						X																																			
BertUnavailableSeconds						X																																			
BertBlockErrorState						X																																			
BertBackgroundBlock Errors						X																																			
BertBitErrorRatio						X																																			
BertErroredSecondRatio						X																																			
BertSeverelyErroredSecond Ratio						X																																			
BertBackgroundBlockError Ratio						X																																			
BertNumberMismatched Ones						X																																			
BertMismatchedOnesRatio						X																																			



Table B-26. Statistics for ATM Modules

	Normal								Qos								StreamTrigger								ModeChecksum Errors				ModeDataIntegrity								Add'l
	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDatIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats	
BertNumberMismatched Zeros						X																															
BertMismatchedZerosRatio						X																															
BertElapsedTestTime					X																																
BertUnframedOutputSignal Strength																																					
BertUnframedDetectedLine Rate																																					
BertDeskewPatternLock																																					
BertRxDeskewErrored Frames																																					
BertRxDeskewErrorFree Frames																																					
BertRxDeskewLossOf Frame																																					
BertTimeSinceLastError																																					
BertTriggerCount																																					
BertTxDeskewBitErrors																																					
BertTxDeskewErrored Frames																																					
BertTxDeskewErrorFree Frames																																					



Table B-26. Statistics for ATM Modules

	Normal								Qos								StreamTrigger								ModeChecksum Errors				ModeDataIntegrity				Add'l															
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	RxModeWidePacketGroup	PosExtendedStats								
AtmAal5BytesReceived	X	X	X		X				X	X	X	X					X	X	X		X				X	X	X		X				X	X	X		X											
AtmAal5BytesSent	X	X	X		X				X	X	X	X					X	X	X		X				X	X	X		X				X	X	X		X											
AtmAal5CrcErrorFrames																																																
AtmAal5FramesReceived	X	X	X		X				X	X	X	X					X	X	X		X				X	X	X		X				X	X	X		X											
AtmAal5FramesSent	X	X	X		X				X	X	X	X					X	X	X		X				X	X	X		X				X	X	X		X											
AtmAal5LengthError Frames																																																
AtmAal5TimeoutError Frames																																																
AtmCellsReceived	X	X	X		X				X	X	X	X					X	X	X		X				X	X	X		X				X	X	X		X											
AtmCellsSent	X	X	X		X				X	X	X	X					X	X	X		X				X	X	X		X				X	X	X		X											
AtmCorrectedHcsError Count	X	X	X		X				X	X	X	X					X	X	X		X				X	X	X		X				X	X	X		X											
AtmIdleCellCount	X	X	X		X				X	X	X	X					X	X	X		X				X	X	X		X				X	X	X		X											
AtmScheduledCellsSent	X	X	X		X				X	X	X	X					X	X	X		X				X	X	X		X				X	X	X		X											
AtmUncorrectedHcsError Count	X	X	X		X				X	X	X	X					X	X	X		X				X	X	X		X				X	X	X		X											
AtmUnregisteredCells Received	X	X	X		X				X	X	X	X					X	X	X		X				X	X	X		X				X	X	X		X											
EthernetCrc	X	X	X		X				X	X	X	X					X	X	X		X				X	X	X		X				X	X	X		X											
Type: Link Fault Signaling																																																

Table B-26. Statistics for ATM Modules

	Normal								Qos				StreamTrigger				ModeChecksum Errors				ModeDataIntegrity				Add'l PosExtendedStats									
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc		Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup
LinkFaultState						X	X								X	X															X	X		
LocalFaults						X	X								X	X															X	X		
RemoteFaults						X	X								X	X														X	X			
Type: RPR																																		
RprDiscoveryFrames Received							X									X														X				
RprDataFramesReceived							X									X														X				
RprFairnessFrames Received							X									X														X				
RprFairnessFramesSent							X									X														X				
RprFairnessTimeouts							X									X														X				
RprHeaderCrcErrors							X									X														X				
RprOamFramesReceived							X									X														X				
RprPayloadCrcErrors							X									X														X				
RprProtectionFrames Received							X									X														X				
Type: Ordered Sets																																		
LocalOrderedSetsSent								X									X														X			
LocalOrderedSets Received							X									X														X				
RemoteOrderedSetsSent								X									X														X			

Table B-26. Statistics for ATM Modules

	Normal								Qos				StreamTrigger				ModeChecksum Errors				ModeDataIntegrity				Add'l										
	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeDcc	Capture	PacketGroup	RxDataIntegrity	RxFirstTimeStamp	RxSequenceChecking	RxModeBert	RxModeBertChannelized	RxModeDcc	RxModeWidePacketGroup	Pos	ExtendedStats
RemoteOrderedSets Received								X								X																	X		
CustomOrderedSetsSent								X								X																	X		
CustomOrderedSets Received								X								X																	X		

Table B-27. Statistics for PoE Modules

	Single Mode
Type: PoE	
PoeStatus	X
PoeInputVoltage	X
PoeInputCurrent	X
PoeInputPower	X
PoeActiveInput	X
PoeTemperature	X
PoeAutocalibration	X

Table B-28. Statistics for 10/100/1000 AFM

	Single Mode
Type: AFM	
bytesFromApplication	X
packetsFromApplication	X
monitorBytesFromPort2	X
monitorBytesFromPort3	X
monitorPacketsFromPort2	X
monitorPacketsFromPort3	X

Table B-29. Statistics for IxNetwork

	Additional Modes		
	ProtocolServerStats	ArpStats	IcmpStats
Type: Protocol Server - General			
ProtocolServerTx	X		
ProtocolServerRx	X		
TxArpReply		X	
TxArpRequest		X	
TxPingReply			X
TxPingRequest			X
RxArpReply		X	
RxArpRequest		X	
RxPingReply			X
RxPingRequest			X
ProtocolServerVlanDroppedFrames	X		

Table B-29. Statistics for IxNetwork

	Additional Modes		
	ProtocolServerStats	ArpStats	IcmpStats
ScheduledFramesSent			
AsynchronousFramesSent			
PortCPUFramesSent			

Statistics for 1GbE and 10GbE Aggregation Load Modules

In 1GbE Aggregated Mode, the ASM1000XMV12X-01 module has these statistics for ports 1 through 12 (shown in [Table B-30](#)). Stats for Port 13 are inactive.

In 10GbE Aggregated Mode, the ASM1000XMV12X-01 module has these statistics for port 13. (shown in [Table B-30](#)). The stats in Port 1 to Port 12 are resource only. The active stats are: Central Chip Temperature(C), Port Chip Temperature(C), Port CPU Status, and Port CPU DoD Status.

In Normal mode, the ASM1000XMV12X-01 module statistics are shown in [Table B-10](#) on page B-41. In Normal (non-aggregated) mode only ports 1-12 are active; port 13 is inactive.

Table B-30. Statistics for 1GbE/10GbE Aggregation Load Modules

	1GbE Aggregation	10GbE Aggregation
Ports 1-12		
LinkState	X	Resource only
LineSpeed	X	Resource only
DuplexMode	X	Resource only
FramesSent	X	Resource only
Valid FramesReceived	X	Resource only
Bytes Sent	X	Resource only
Bytes Received	X	Resource only
Port Cpu Status	X	X
Port Cpu Dod Status	X	X
Central Chip Temp (C)	X	X
Port Chip Temp (C)	X	X
Egress Dropped Frames	X	Resource only
Port CPU Ingress Dropped Frames	X	X
Port CPU Frames Received	X	X
Port CPU Bytes Received	X	X
Port 13		
LinkState		X
LineSpeed		X
FramesSent		X
Valid FramesReceived		X
Bytes Sent		X
Bytes Received		X
Egress Dropped Frames		X

Ethernet OAM Statistics

Ethernet OAM statistics are capable of being generated for the load modules listed in [Table B-31](#) on page B-160.

Table B-31. Ethernet OAM Statistics

Load Module	Ethernet OAM Stats							
	OAM Information PDUs Sent	OAM Information PDUs Received	OAM Event Notification PDUs Received	OAM Event Notification PDUs Received	OAM Organization PDUs Received	OAM Variable Request PDUs Received	OAM Variable Response PDUs Received	OAM Unsupported PDUs Received
10/100/1000 (S)TX(S)2, 4, 24	X	X	X	X	X	X	X	X
1000 SFP(S)4	X	X	X	X	X	X	X	X
10/100/1000 XMS(R)12	X	X	X	X	X	X	X	X
10/100/1000 LSM XMV(R)4, 16	X	X	X	X	X	X	X	X
10/100/1000 ASM XMV12	X	X	X	X	X	X	X	X
10GE LSM (XM3, XMR3, XL6) in LAN mode	X	X	X	X	X	X	X	X
10GE LSM (XM8, XMR8, XM4, XMR4) in LAN mode	X	X	X	X	X	X	X	X
10GE LSM (XFP, XENPAK, X2, 10GBase-T) in LAN mode	X	X	X	X	X	X	X	X
10G MSM in LAN mode	X	X	X	X	X	X	X	X
10GE LSM MACSec LAN mode	X	X	X	X	X	X	X	X

MACsec Statistics

MACsec statistics can be generated for the LSM10GMS load module and are listed in [Table B-32](#). For details, see *IEEE standard 802.1 AE-2006, Media Access Control (MAC) Security*.

Table B-32. MACsec Statistics

Statistic Type	Name	Description
MACSec Valid Frames Sent	macSecValidFramesSent	32-bit stat counter that indicates the total number valid MACSEC packets transmitted
MACSec Valid Bytes Sent	macSecValidBytesSent	64-bit stat counter that indicates the total number valid MACSEC bytes transmitted
MACSec Frames With Unknown Key Sent	macSecFramesWithUnknownKeySent	32-bit stat counter that indicates the total number of transmit packets for which no key was found
MACSec Valid Frames Received	macSecValidFramesReceived	32-bit stat counter that indicates the total number valid MACSEC packets received
MACSec Valid Bytes Received	macSecValidBytesReceived	64-bit stat counter that indicates the total number valid MACSEC bytes received
MACSec Frames With Unknown Key Received	macSecFramesWithUnknownKeyReceived	32-bit stat counter that indicates the total number of receive packets for which no key was found
MACSec Frames With Bad Hash Received	macSecFramesWithBadHashReceived	32-bit stat counter that indicates the total number of receive packets with a bad ICV

FCoE Statistics

FCoE statistics can be generated for the NGY LSM10GXM family of load modules and are listed in [Table B-33](#).

Table B-33.FCoE Statistics

Statistic Type	Name
FCoE Fabric Login sent	fcoeFlogiSent
FCoE Fabric Login Link Service Accept received	fcoeFlogiLsAccReceived
FCOE Port Login sent	fcoePlogiSent
FCOE Port Login Link Service Accept received	fcoePlogiLsAccReceived
FCOE Port Login Requests received	fcoePlogiRequestsReceived
FCoE Fabric Logout sent	fcoeFlogoSent
FCOE Port Logout sent	fcoePlogoSent
FCOE Port Logout received	fcoePlogoReceived
FCoE Discovery sent.	fcoeFdiscSent
FCoE Discovery Link Service Accept received	fcoeFdiscLsAccReceived
FCoE Name Server Registration sent	fcoeNSRegSent
FCoE Name Server Registration successful	fcoeNSRegSuccessful
FCoE Nx Ports Enabled	fcoeNxPortsEnabled

Table B-33.FCoE Statistics

Statistic Type	Name
FCoE Nx Port IDs Acquired	fcoeNxPortIdsAcquired
FCoE Rx Shared Stat 1	fcoeRxSharedStat1
FCoE Rx Shared Stat 2	fcoeRxSharedStat2

fcoeRxSharedStat1 and fcoeRxSharedStat2

Select the statistic to be assigned to these two counters from these options::

statFcoeInvalidDelimiter
statFcoeInvalidFrames
statFcoeInvalidSize
statFcoeNormalSizeBadFccRc
statFcoeNormalSizeGoodFccRc
statFcoeUndersizeBadFccRc
statFcoeUndersizeGoodFccRc
statFcoeValidFrames

FIP Statistics

FIP statistics can be generated for any load module capable of FCoE and are listed in [Table B-34](#):

Table B-34.FIP Statistics

Statistic Type	Name
Number of FIP Discovery Solicitations that have been sent	FipDiscoverySolicitationsSent
Number of FIP Discovery Advertisements that have been received.	FipDiscoveryAdvertisementsReceived
Number of FIP Keep Alives that have been sent.	FipKeepAlivesSent
Number of FIP Clear Virtual Links that have been received.	FipClearVirtualLinksReceived

ALM, ELM and CPM Statistics

Statistics generated for ALM1000T8, ELM1000ST2, and CPM1000T8-01 load modules are listed in [Table B-35](#).

Table B-35. Statistics for 10/100/1000 ALM T8, ELM ST2, and CPM T8

	Common	Additional Statistics			
		ArpStats	DHCPv4Stats	DHCPv6Stats	TempSensors Stats
Link State	X				
Line Speed	X				
Duplex Mode	X				

Table B-35. Statistics for 10/100/1000 ALM T8, ELM ST2, and CPM T8

	Common	Additional Statistics			
		ArpStats	DHCPv4Stats	DHCPv6Stats	TempSensors Stats
Frames Sent	X				
Valid Frames Received	X				
Bytes Sent	X				
Bytes Received	X				
Fragments	X				
Undersize	X				
Oversize and Good CRCs	X				
CRC Errors	X				
Alignment Errors	X				
Dribble Errors	X				
Collisions	X				
Late Collisions	X				
Collision Frames	X				
Excessive Collision Frames	X				
Oversize and CRC Errors	X				
ProtocolServer Transmit	X				
ProtocolServer Receive	X				
Transmit ARP Reply		X			
Transmit ARP Request		X			
Transmit Ping Reply	X				
Transmit Ping Request	X				
Receive ARP Reply		X			
Receive ARP Request		X			
Receive Ping Reply	X				
Receive Ping Request	X				
Bits Sent	X				
Bits Received	X				
Central Chip Temperature (C)					X
Port Chip Temperature (C)					X ¹
Port CPU Status	X				
Port CPU DoD Status	X				
DHCPv4 Discovered Messages Sent			X		
DHCPv4 Offers Received			X		
DHCPv4 Requests Sent			X		
DHCPv4 ACKs Received			X		
DHCPv4 NACKs Received			X		
DHCPv4 Releases Sent			X		
DHCPv4 Enabled Interfaces			X		

Table B-35. Statistics for 10/100/1000 ALM T8, ELM ST2, and CPM T8

	Common	Additional Statistics			
		ArpStats	DHCPv4Stats	DHCPv6Stats	TempSensors Stats
DHCPv4 Addresses Learned			X		
DHCPv6 Solicits Sent				X	
DHCPv6 Advertisements Received				X	
DHCPv6 Requests Sent				X	
DHCPv6 Declines Sent				X	
DHCPv6 Replies Received				X	
DHCPv6 Releases Sent				X	
DHCPv6 Enabled Interfaces				X	
DHCPv6 Addresses Learned				X	

¹-Not ELM (ALM and CPM only)

40/100 GE Statistics

Table B-36. Statistics for 40/100GE LSM Modules

	Normal			Qos			TemperatureSensorsStats	
	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	RxDataIntegrity		RxSequenceChecking
Type: User Configurable								
UserDefinedStat1	X	X	X	X	X	X	X	X
UserDefinedStat2	X	X	X	X	X	X	X	X
UserDefinedStatByteCount 1 (supported only on Lava AP40/100GE 2P)	X	X	X	X	X	X	X	X
UserDefinedStatByteCount 2 (supported only on Lava AP40/100GE 2P)	X	X	X	X	X	X	X	X
CaptureTrigger	X	X	X	X	X	X	X	X
CaptureFilter	X	X	X	X	X	X	X	X
StreamTrigger1	X	X	X	X	X	X	X	X
StreamTrigger2	X	X	X	X	X	X	X	X
UserDefinedStat5	X	X	X	X	X	X	X	X
UserDefinedStat6	X	X	X	X	X	X	X	X
Type: States								
Link	X	X	X	X	X	X	X	X
LineSpeed	X	X	X	X	X	X	X	X
TransmitState	X	X	X	X	X	X	X	X
CaptureState	X	X	X	X	X	X	X	X
PauseState	X	X	X	X	X	X	X	X
Type: Common								
FramesSent	X	X	X	X	X	X	X	X
FramesReceived	X	X	X	X	X	X	X	X
BytesSent	X	X	X	X	X	X	X	X
BytesReceived	X	X	X	X	X	X	X	X
FcsErrors	X	X	X	X	X	X	X	X
BitsReceived	X	X	X	X	X	X	X	X
BitsSent	X	X	X	X	X	X	X	X
PortCpuStatus	X	X	X	X	X	X	X	X
PortCpuDodStatus	X	X	X	X	X	X	X	X
ScheduledTransmitTime	X	X	X	X	X	X	X	X

Table B-36. Statistics for 40/100GE LSM Modules

	Normal				Qos				TemperatureSensorsStats
	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	
Type: Transmit Duration									
TransmitDuration	X	X	X	X	X	X	X	X	
Type: Quality of Service									
QualityOfService 0-7					X	X	X	X	
Type: Checksum Stats									
IPv4Packets	X	X	X	X	X	X	X	X	
UdpPackets	X	X	X	X	X	X	X	X	
TcpPackets	X	X	X	X	X	X	X	X	
IPv4ChecksumErrors	X	X	X	X	X	X	X	X	
UdpChecksumErrors	X	X	X	X	X	X	X	X	
TcpChecksumErrors	X	X	X	X	X	X	X	X	
Type: Data Integrity									
DataIntegrityFrames		X				X			
DataIntegrityErrors		X				X			
Type: Sequence Checking									
SequenceFrames			X				X		
SequenceErrors			X				X		
ReverseSequenceErrors			X				X		
SmallSequenceErrors			X				X		
TotalSequenceErrors			X				X		
BigSequenceErrors			X				X		
Type: Ethernet									
Fragments	X	X	X	X	X	X	X	X	
Undersize	X	X	X	X	X	X	X	X	
Oversize	X	X	X	X	X	X	X	X	
VlanTaggedFramesRx	X	X	X	X	X	X	X	X	
FlowControlFrames	X	X	X	X	X	X	X	X	
Type: Temperature									
PCPU FPGA Temperature									X
Capture1 Fpga Temperature									X
Capture2 Fpga Temperature									X
Tx1 Fpga Temperature									X

Table B-36. Statistics for 40/100GE LSM Modules

	Normal			Qos			TemperatureSensorsStats	
	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	RxDataIntegrity		RxSequenceChecking
Tx2 Fpga Temperature								X
Latency1 Fpga Temperature								X
Latency2 Fpga Temperature								X
TxSchedulerOverlay Temperature								X
TxFmx Fpga Temperature								X
RxFmx Fpga Temperature								X
Type: Pause								
PauseEndFrames								
PauseOverwrite	X	X	X	X	X	X	X	X
Type: Gigabit								
Oversize and CRC Errors	X	X	X	X	X	X	X	X
Type: POS								
Input Signal Strength	X	X	X	X	X	X	X	X
Type: ARP								
TxArpReply	X	X	X	X	X	X	X	X
TxArpRequest	X	X	X	X	X	X	X	X
RxArpReply	X	X	X	X	X	X	X	X
RxArpRequest	X	X	X	X	X	X	X	X
Type: ICMP								
TxPingReply	X	X	X	X	X	X	X	X
TxPingRequest	X	X	X	X	X	X	X	X
RxPingReply	X	X	X	X	X	X	X	X
RxPingRequest	X	X	X	X	X	X	X	X
ScheduledFramesSent	X	X	X	X	X	X	X	X
AsynchronousFramesSent	X	X	X	X	X	X	X	X
PortCPUFramesSent	X	X	X	X	X	X	X	X
Type: Protocol Server-General								
ProtocolServerTx	X	X	X	X	X	X	X	X
ProtocolServerRx	X	X	X	X	X	X	X	X
ProtocolServerVlan DroppedFrames	X	X	X	X	X	X	X	X

Table B-36. Statistics for 40/100GE LSM Modules

	Normal				Qos				TemperatureSensorsStats
	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	
Type: Link Fault Signaling									
LinkFaultState	X	X	X	X	X	X	X	X	X
LocalFaults	X	X	X	X	X	X	X	X	X
RemoteFaults	X	X	X	X	X	X	X	X	X
Type: LSM									
codingErrorFramesReceived	X	X	X	X	X	X	X	X	X
eErrorCharacterFramesReceived	X	X	X	X	X	X	X	X	X
Type: PCS									
PcsSyncErrorsReceived	X	X	X	X	X	X	X	X	X
PcsIllegalCodesReceived	X	X	X	X	X	X	X	X	X
PcsRemoteFaultsReceived	X	X	X	X	X	X	X	X	X
PcsLocalFaultsReceived	X	X	X	X	X	X	X	X	X
PcsIllegalOrderedSetReceived	X	X	X	X	X	X	X	X	X
PcsIllegalIdleReceived	X	X	X	X	X	X	X	X	X
PcsIllegalSofReceived	X	X	X	X	X	X	X	X	X
PcsOutOfOrderSofReceived	X	X	X	X	X	X	X	X	X
PcsOutOfOrderEofReceived	X	X	X	X	X	X	X	X	X
PcsOutOfOrderDataReceived	X	X	X	X	X	X	X	X	X
PcsOutOfOrderOrderedSetReceived	X	X	X	X	X	X	X	X	X
TotalFrames	X	X	X	X	X	X	X	X	X
ReadTimeStamp	X	X	X	X	X	X	X	X	X
Type: Latency/Jitter									
MinLatency	X	X	X	X	X	X	X	X	X
MaxLatency	X	X	X	X	X	X	X	X	X
MaxminInterval	X	X	X	X	X	X	X	X	X
AverageLatency	X	X	X	X	X	X	X	X	X
TotalByteCount	X	X	X	X	X	X	X	X	X
BitRate	X	X	X	X	X	X	X	X	X

Table B-36. Statistics for 40/100GE LSM Modules

	Normal				Qos				TemperatureSensorsStats
	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	Capture	RxDataIntegrity	RxSequenceChecking	RxModeWidePacketGroup	
ByteRate	X	X	X	X	X	X	X	X	
FrameRate	X	X	X	X	X	X	X	X	
FirstTimeStamp	X	X	X	X	X	X	X	X	
LastTimeStamp	X	X	X	X	X	X	X	X	

