

Refurbished CISCO ONS-QSFP-40G-SR4 Datasheet

CISCO > OPTICAL-NETWORKING

Cisco Network Convergence System 2000 Series

RMON Counters Supported by Ethernet Interfaces

Counter	
rxTotalPkts	Good frames that are successfully received from the client line interface by the device
etherStatsPkts	Total number of frames received on an interface (The received is referred to a probe on the interface so count both Rx and Tx directions.)
etherStatsOctets	The total number of octets of data, including those in good and bad frames, received from the client line side by the device (This count excludes Preamble byte(s) SFD and Extension byte(s) but includes the Destination and Source addresses, Length/Type field, Q-tag prefix, MAC client data/pad and FCS.)
etherStatsOversizePkts	Good jumbo-frames that are successfully received from the client line interface by the device (Jumbo frames are frames of length 1519 to the configured Max frame size.)
dot3StatsFCSErrors	Receive frames that are an integral number of octets in length and do not pass the FCS check
dot3StatsAlignmentErrors	Receive frames that are not an integral number of octets in length and do not pass the FCS check
dot3StatsSymbolErrors	Received frames that have an associated RX_ER assertion during a data reception error event (MII) or data reception error event or carrier extension error (GMII) from the PCS
dot3StatsFramesTooLong	Receive frames that exceed the maximum permitted frame size, as programmed, and had no other errors
etherStatsJabbers	Receive frames that exceed the maximum permitted frame size, as programmed, and had a bad Frame Check Sequence (FCS)
etherStatsUndersizePkts	Receive frames containing less than the minimum permitted frame size, as programmed, and had no other errors
etherStatsFragments	Receive frames containing less than the minimum permitted frame size, as programmed, and had a bad Frame Check Sequence (FCS)
etherStatsPkts64Octets	Good and bad frames received that were 64 octets in length (excluding framing bits but including FCS)
etherStatsPkts65to127Octets	Good and bad frames received that were between 65 and 127 octets in length (excluding framing bits but including FCS)
etherStatsPkts128to255Octets	Good and bad frames received that were between 128 and 255 octets in length (excluding framing bits but including FCS)
etherStatsPkts256to511Octets	Good and bad frames received that were between 256 and 511 octets in length (excluding framing bits but including FCS)
etherStatsPkts512to1023Octets	Good and bad frames received that were between 512 and 1023 octets in length (excluding framing bits but including FCS)
etherStatsPkts1024to1518Octets	Good and bad frames received that were between 1024 and 1518 octets in length (excluding framing bits but including FCS)
ifInUcastPkts	Good frames that are successfully received and are directed to a unicast group address
ifInMulticastPkts	Good frames that are successfully received and are directed to a multicast group address
etherStatsMulticastPkts	Good multicast frames successfully received or transmitted on an interface
ifInBroadcastPkts	Good frames that are successfully received and are directed to a broadcast group address
etherStatsBroadcastPkts	Good broadcast frames successfully received or transmitted on an interface.
ifInErrors	The sum for this interface of dot3StatsAlignmentErrors, dot3StatsFCSErrors, dot3StatsFrameTooLongs, dot3StatsInternalMacReceiveErrors and dot3StatsSymbolErrors.

IfOutUcastPkts	Good frames that were successfully transmitted to a unicast group destination address
IfOutMulticastPkts	Good frames that were successfully transmitted to a multicast group destination address
IfOutBroadcastPkts	Good frames that were successfully transmitted to a Broadcast group destination address
etherStatsPkts1519toMaxSizeOctets	Good and bad frames received that were between 1519 octets in length and the maximum frame size as programmed within the RMAC Max Frame Length Configuration Register (excluding framing bits but including FCS)
mediaIndStatsTXFramesBadCRC	Transmitted frames that are an integral number of octets in length and do not pass the FCS check
mediaIndStatsTXShortPkts	Transmitted frames containing less than the minimum permitted frame size as programmed with the transmit MAC Min Frame Length Configuration Register
dot3StatsLCVErrors/ mediaIndStatsRxLcvErrors	Received line code violations at the PCS layer
dot3StatsLayer1Errors	Number of Layer 1 errors as defined within the following conditions: During Packet Reception - Layer 1 errors are counted only one time per packet. The error is indicated as a direct result of a line side protocol violation in which RX_DV is asserted. This is an uncommon event that could be the reason why a device loses synchronization. During Interpacket Reception - The Layer 1 error is indicated as a direct result of a line side protocol violation in which RX_DV is deasserted. This is an uncommon event. The Layer 1 error is also asserted on detection of a False Carrier indication and an errored byte (interpacket) signal encoding. When the error is asserted during interpacket reception, it is statistically asserted only in the vector.
ifOutOctets	The total number of octets transmitted out of the interface, including framing characters
txTotalPkts	Total packets good/bad that are egressing

RMON Counters Supported by 8- and 10-Gigabit Fibre Channel Interfaces

rxTotalPkts	Receive frame counter: number of received packets
mediaIndStatsRxFramesTruncated	Receive undersize frame counter: number of received frames that are too small
mediaIndStatsRxFramesTooLong	Receive oversize frame counter: number of received FC packets with length > 2148 (2148 is the maximum length for standard FC packets.)
mediaIndStatsRxFrameBadCRC	Receive frame CRC error counter: received frame with bad CRC
ifInOctets	Receive (frame) octets counter: total number of octets received on the interface including framing octet
ifInErrors	Receive total errored frame counter: Receive oversizeCRC me + Receive Undersize Frame + Receive CRC Errored Frame

RMON Counters Supported by GFP Virtual Ports

gfpStatsRxFrame	Number of received GFP frames
gfpStatsTxFrame	Number of transmitted GFP frames
gfpStatsRxCRCErrors	Number of packets received with a payload FCS error
gfpStatsRxOctets	Number of GFP bytes received
gfpStatsTxOctets	Number of GFP bytes transmitted
gfpStatsRxSBitErrors	Sum of all the single bit errors (In the GFP CORE HDR at the GFP-T receiver, these are correctable.)
gfpStatsRxMBitErrors	Sum of all the multiple bit errors (In the GFP CORE HDR at the GFP-T receiver, these are uncorrectable.)
gfpStatsRxTypeInvalid	Number of receive packets dropped due to Client Data Frame UPI errors
gfpStatsCFSRaised	Number of GFP client signal fail frames detected at the GFP-T receiver
gfpStatsLFDRaised	Count of core HEC CRC multiple bit errors Note: This count is only of eHec multiple bit errors when in frame. This can be looked at as a count of when the state machine goes out of frame.
gfpRxCmfFrame	Number of received client management frames

Card Specifications	
Physical	
Dimensions	Occupies 1 slot
Latency (End to End)	
SFP+ or QSFP+ port	46 microseconds
Cisco CPAK client port	29 microseconds
Storage temperature	-40°C to 70°C (-40°F to 158°F)

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