



SM40G-SR

40Gb/s QSFP+ Transceiver for Chelsio Adapters

Features

- Four-channel full-duplex
- Hot-pluggable QSFP+ form factor
- Supports 1.06 Gb/s to 10.5 Gb/s per channel
- Maximum link length of 100m on OM3 Multimode Fiber (MMF) and 150m on OM4 MMF
- Unretimed XLPPi electrical interface
- Reliable VCSEL array technology
- Built-in digital diagnostic functions
- Single 1x12 MPO receptacle

Applications

- 40GBASE-SR4 40G Ethernet
- Breakout to 10GBASE-SR Ethernet
- Proprietary interconnections

Specifications

- IEEE 802.3ba (40 GbE)
- SFF-8436

Regulatory Compliance

- Class 1 laser eye safety compliant per IEC 60825-1

Physical and Environmental

- RoHS-6 compliant (lead-free)
- Commercial temperature range 0°C to 70°C
- Power dissipation < 1.5W
- Single 3.3V power supply

Compatible Adapters

- T580-OCP-SO
- T580-SO-CR
- T580-CR
- T580-LP-CR

Overview

Chelsio's SM40G-SR 40Gb/s 100m Multimode QSFP+ optical transceivers are designed and certified for use with Chelsio's 40-Gigabit Ethernet Unified Wire Adapters.

The Chelsio SM40G-SR Transceiver is compatible with Chelsio's T5-based Unified Wire Adapters. The T5 adapters support PCI Express 3.0 host bus interface, and are optimized for storage, cloud computing, HPC, virtualization and other data center applications. The fifth-generation T5 ASIC technology from Chelsio provides the highest performance while dramatically lowering host-system CPU and memory overhead with on-board hardware that offloads TCP/IP, iSCSI, FCoE and iWARP RDMA processing. As a result, the system benefits from higher bandwidth, lower latency and reduced power consumption.



Transceiver Characteristics

Chelsio's SM40G-SR QSFP+ transceivers are fully compliant with industry standards like QSFP+ MSA and IEEE 802.3ba 40GBASE-SR4. They are environmentally friendly and safe to operate, as they are lead-free and adhere to Class 1 laser eye safety standards as per IEC 60825-1. Mechanical specifications comply with the QSFP+ MSA transceiver module standards. A serial I2C management interface with built-in digital diagnostic functions enables users to monitor operating information.

The T5 Adapters with SM40G-SR QSFP+ transceivers enable a unified wire for LAN, SAN, and cluster traffic, built upon a combination of high bandwidth and low latency architecture along with a complete set of storage and cluster protocols operating over Ethernet (iSCSI, FCoE, and iWARP). Full Software suite was run with these modules and Chelsio recommends using these modules only with Adapters to allow the Adapter warranty and support structure to remain intact.

Ordering Information

Model: SM40G-SR

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