



SM10G-SR-BT

1/10GBASE-T Copper SFP+ Transceiver for Chelsio Adapters

Features

- Hot-pluggable SFP+ footprint
- Compact RJ-45 connector assembly
- Support for 10GBASE-T and 1000BASE-T
- RoHS compliant and lead-free

Applications

- 10 Gigabit Ethernet over Cat 6a cable

Specifications

- IEEE 802.3an (10GBASE-T)
- IEEE 802.3ab (1000BASE-T)
- SFP MSA

Regulatory Compliance

- Class 1 laser products
- US FDA regulatory compliant
- TÜV and CSA certified
- Meets the Class 1 safety requirements of EN (IEC) 60825 and 60950.

Physical and Environmental

- Operating temperature range 0°C to 70°C
- Power dissipation 3.6W
- Single 3.3V power supply

Compatible Adapters

- T520-CR
- T540-LP-CR
- T6225-CR
- T6225-SO-CR
- T6225-OCP3

Overview

Chelsio's SM10G-SR-BT 1/10GBASE-T Copper SFP+ RJ-45 transceivers are designed and certified for use with Chelsio's 1/10/25Gb Ethernet Adapters.

The Chelsio SM10G-SR-BT transceiver is compatible with Chelsio's T5/T6-based Adapters. The T5/T6 adapters support PCI Express 3.0 host bus interface, and are optimized for storage, cloud computing, HPC, crypto, virtualization, and other data center applications. The T5/T6 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, NVMe/TCP, and iWARP RDMA processing. As a result, the system benefits from higher bandwidth, lower latency, and reduced power consumption.



Characteristics

Chelsio's SM10G-SR-BT transceivers are based on the SFP Multi Source Agreement (MSA) and are fully compliant with 10Gbase-T and 1000base-T IEEE 802.3 standards. They support the 2-wire serial communication protocol defined in the SFP MSA and are RoHS compliant.

The T5/T6 Adapters with SM10G-SR-BT transceiver 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, NVMe/TCP, 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: SM10G-SR-BT

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