



SM1G-SR-BT

1000BASE-T Copper SFP Transceiver for Chelsio Adapters

Features

- 1 Gbps rate upto 100m with Cat 5 cable
- Hot-pluggable SFP footprint
- Compact RJ-45 connector assembly
- Support for 1000BASE-T
- RoHS compliant and lead-free
- Fully metallic enclosure for low EMI

Applications

- 1.0 Gigabit Ethernet over Cat 5 cable

Specifications

- IEEE 802.3ab (1000BASE-T)
- SFP MSA1

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: 1.05W
- Single 3.3V power supply

Compatible Adapters

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

Overview

Chelsio's SM1G-SR-BT 1000BASE-T Copper SFP RJ-45 transceivers are designed and certified for use with Chelsio's 1/10/25Gb Ethernet Adapters.

The Chelsio SM1G-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 SM1G-SR-BT transceivers are based on the SFP Multi Source Agreement (MSA1) and are fully compliant with the Gigabit Ethernet and 1000BASE-T IEEE 802.3 standards. They support 1000 Mbps full duplex data links with 5-level Pulse Amplitude Modulation (PAM) signals. They also support the 2-wire serial communication protocol defined in the SFP MSA.

The T5/T6 Adapters with SM1G-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: SM1G-SR-BT

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