

## 25Gb/s SFP28 Short Reach Transceiver for Chelsio Adapters

### Features

- Hot-pluggable SFP28 footprint
- 25G Ethernet maximum bit rate
- Built-in digital diagnostic functions
- All-metal housing for superior EMI performance
- Cost-effective and optimized for high-speed datacenter interconnects.

### Applications

- 25GBASE-SR Ethernet
- Rack-to-Rack, Shelf-to-Shelf Interconnect
- High Performance Networking, Storage, and clusters
- Hubs, switches, routers, servers

### Specifications

- IEEE 802.3ae (10GbE)
- IEEE 802.3by (25GbE)

### Regulatory Compliance

- Class 1 laser product
- US FDA regulatory compliant
- Class 1 safety compliant.

### Physical and Environmental

- RoHS-6 compliant (lead-free)
- Operating temperature: 0°C to 70°C
- Operating voltage: 3.3V
- Up to 70m over parallel OM3 or 100m over OM4 multimode fiber

### Compatible Adapters

- T6225-CR
- T6225-LL-CR
- T6225-SO-CR
- T6225-OC
- T6425-CR

### Overview

Chelsio's SM25G-SR 25Gb/s SFP28 short reach transceiver modules are designed for 25 Gigabit Ethernet links over multimode fiber and certified for use with Chelsio's 25-Gigabit Ethernet Unified Wire adapters. The optical module offers a cost-effective and power-efficient network connectivity solution for high-speed data applications.



The Chelsio SM25G-SR optical module is compatible with Chelsio's T6-based Unified Wire adapters. The T6 adapters support PCI Express 3.0 host bus interface, and are optimized for storage, cloud computing, HPC, virtualization and other datacenter applications. The sixth-generation 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, iWARP RDMA, IPsec, TLS/SSL, DTLS and SMB 3.X crypto processing. As a result, the system benefits from higher bandwidth, lower latency and reduced power consumption.

### Characteristics

Chelsio's SM25G-SR SFP28 transceiver modules are fully compliant with IEEE 802.3ae (10GbE) and IEEE 802.3by (25GbE) specifications; and adhere to RoHS-6 standards.

The T6 adapters with SM25G-SR transceiver modules enable a unified wire for LAN, SAN, and cluster traffic. Built upon a combination of high bandwidth and low latency architecture, the T6 solution offers a complete set of storage and cluster protocols operating over Ethernet (iSCSI, FCoE and iWARP).

T6 solution's port-to-port and adapter-to-adapter failover features are ideal for critical applications that require redundancy and high-availability capabilities. Full Software suite was run with these optical modules and Chelsio recommends using these transceiver modules only with Chelsio adapters to allow the adapter warranty and support structure to remain intact.

### Ordering Information

Model: SM25G-SR (25G short reach SFP28 optical module)

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH CHELSIO PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN CHELSIO'S TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS, CHELSIO ASSUMES NO LIABILITY WHATSOEVER, AND CHELSIO DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO SALE AND OR USE OF CHELSIO PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT. CHELSIO PRODUCTS ARE NOT INTENDED FOR USE IN MEDICAL, LIFE SAVING, OR LIFE SUSTAINING APPLICATIONS. CHELSIO MAY MAKE CHANGES TO SPECIFICATIONS AND PRODUCT DESCRIPTIONS AT ANY TIME WITHOUT NOTICE.