

Super QSFP LR4 100G Optical Transceiver



OVERVIEW

Luxshare-TECH 100Gbps S-QSFP LR4 transceiver is designed for 100G Ethernet links with long-reach communication. The link distance up to 10km with single-mode fiber. It integrates four data lanes in each direction with each lane operating at 25.78125 Gbps. The total bandwidth is 100Gbps.

This transceiver also can be used for high density 40G Ethernet applications. They are compliant to IEEE802.3-ba 100GBASE-LR4 and IEEE802.3 CAU-4 and QSFP MSA. The electrical interface is mated with the standard 38-pin QSFP connector. The optical interface uses a duplex LC optical connector. This transceiver utilizes LAN-WDM DFB and PIN detect to provide the reliable long life, good performance and quality.

FEATURES & BENEFITS

- ◆ Hot Pluggable QSFP form factor
- ◆ LAN WDM DML Laser/PIN Photo Detector
- ◆ Supports 25.78125Gbps per channel
- ◆ Maximum power consumption 3.5W
- ◆ Up to 10km transmission on SMF
- ◆ Operating Case Temperature: 0°Cto70°C
- ◆ Duplex LC receptacles

PRODUCT APPLICATIONS

Ethernet for 100GBASE-LR4
InfiniBand EDR, FDR, & QDR

Super QSFP LR4 100G Optical Transceiver

TECHNICAL INFORMATION

MATERIAL

Nickel plated zinc die cast shells & latching
Mechanism parts
Thermoplastic cable pull tab
Optical plastic lens
Optical Mux/Demux

ELECTRICAL PERFORMANCE

Power Supply Voltage: 3.3V (3.14 to 3.46V)
Data rate per lane: 25.78125Gbps
Power Consumption: 3.5W(MAX)
Transmitter Type: DFB
Receiver Type: PIN

SPECIFICATIONS

SFF-8636: Management Interface
SFF-8661: Pluggable Module
SFF-8679: General Electrical
IEEE 802.3ba: Physical Layer Specifications and Management Parameters
ROHS-6: Environment Safety
ES-12-00-0019

Partial PN Table

| PN | Package | Description | Reach | Protocol Support | Data Rate | Temp | Power Consumption | Optical Connector | Transceiver | Receiver | WaveLength |
|----------------|---------|-------------|-------|------------------|-----------|--------|-------------------|-------------------|-------------|----------|------------|
| PA01QSD02-NC-T | S-QSFP | LR4 | 10km | Ethernet | 100Gbps | 0-70°C | 3.5W | LC | DFB | PIN | 1295-1310 |

MECHANICAL PERFORMANCE

QSFP Module Insertion: 40N(MAX)
QSFP Module Extraction: 30N(MAX)
QSFP Module Retention: 90N(MIN)
Insertion and removal cycles: 50Cycles

ENVIRONMENTAL

Storage Temperature Range: -40°C to +85°C
Operating Temperature Range: 0°C to +70°C
Relative Humidity: 0 to 85%