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

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

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%

SPECIFICATION

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