QSFP+ LR4 40G Optical Transceiver

OVERVIEW

Luxshare-TECH 40Gbps QSFP+ transceiver is designed for 40G Ethernet links with long-reach communiction. The link distance up to 10km with singlemode fiber. It integrates four data lanes in each direction with each lane operating at 10.3125Gbps.

This transceiver also can be used for high density 10G Ethernet applications. They are compliant to IEEE802.3-ba 40GBASE-LR4 and breakout 4x10GBASE-LR and QSFP+ MSA. This transceiver utilizes 1310nm DFB and PIN detect to provide the reliable long life, good performance and quality.

FEATURES & BENEFITS

- Hot Pluggable QSFP+ form factor
- DFB Laser/PIN Photo Detector
- Supports 10.3125Gbps per channel
- Maximum power consumption 3.5W
- Up to 10km transmission on SMF
- Operating Case Temperature: 0℃ to +70℃
- Duplex LC receptacles

PRODUCT APPLICATIONS

Ethernet for 40GBASE-LR4

InfiniBand EDR, FDR

QSFP+ LR4 40G Optical Transceiver

TECHNICAL INFORMATION

MATERIAL

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

MECHANICAL PERFORMANCE

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

ELECTRICAL PERFORMANCE

Power Supply Voltage: 3.3V（3.13 to 3.47V）
Data rate per lane: 10.3125Gbps
Power Consumption: 3.5W(MAX)
Transmitter Type: DFB
Receiver Type: PIN

ENVIRONMENTAL

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

SPECIFICATIONS

SFF-8636 Management Interface
SFF-8661: Pluggable Module
SFF-8679: General Electrical
GR-468: Reliability Qualification
IEEE 802.3ba: Physical Layer Specifications and Management Parameters
ROHS-6: Environment Safety
ES-12-00-0015

Partial PN Table

PN	Package	Description	Reach	Protocol Support	Data Rate	Temp	Power Consumption	Optical Connector	Transceiver	Receiver	WaveLength
PA00QSD01-NC-T	QSFP+	LR4	10KM	Ethernet	40Gbps	0-70℃	3.5W	LC	DFB	PIN	1270-1330nm