Active Transceiver

Super QSFP PSM4 100Gbps Optical Transceiver

OVERVIEW

Luxshare-TECH 100Gbps S-QSFP PSM4 100G transceiver is designed for 100G Ethernet links with long-reach communication. The link distance up to 500m with parallel single-mode fiber. It integrates four data lanes in each direction with each lane operating at 25.78125 Gbps. This transceiver also can be used for high density 40G Ethernet applications. They are compliant to IEEE802.3 Clause 140 for 100GBASE-DR and QSFP MSA. The electri cal interface is mated with the standard 38-pin QSFP connector. The optical interface uses a parallel MPO12 optical connector. 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
- 1310nm DFB Laser/PIN Photo Detector
- Supports 25.78125Gbps per channel
- Maximum power consumption 3.5W
- Operating Case Temperature: 0℃ to +70℃
- Up to 500m transmission with SMF
- Single MPO12 receptacles

PRODUCT APPLICATIONS

Ethernet for 100GBASE-DR4

InfiniBand EDR, FDR, & QDR

TECHNICAL INFORMATION

MATERIAL

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

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

Partial PN Table

PN	Package	Description	Reach	Protocol Support	Data Rate	Temp	Power Consumption	Optical Connector	Transceiver	Receiver	WaveLength
PA01QSB01-NC-T	S-QSFP	PSMA	500M	Ethernet	100Gbps	0-70℃	3.5w	MPO(SMF)	DFB	PIN	1310nm

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

SPECIFICATION

Compliant to 100Gbps PSM4 MSA
SFF-8636: Management Interface
SFF-8661: Pluggable Module
SFF-8679: General Electrical
GR-468: Reliability Qualification
IEEE 802.3bm: Physical Layer Specifications and Management Parameters
ROHS-6: Environment Safety
ES-12-00-0037