LUXSHARE TECH
立讯技术

Super QSFP SR4 100Gbps Optical Transceiver

OVERVIEW

Luxshare-TECH 100Gbps S-QSFP SR4 100G transceiver is designed for 100G Ethernet links with short-reach communication. The link distance up to 70m and 100m over OM3 and OM4 respectively. It integrates four data lanes in each direction with each lane operating at 25.78125Gbps and 10.3125Gbps.

This transceiver also can be used for high density 100G/40G Ethernet applications. They are compliant to IEEE802.3bm 100 GBASE-SR4 and breakout 4x25 GBASE-SR and QSFP+ MSA. This transceiver utilizes 850nm VCSEL and PIN detect to provide the reliable long life, good performance and quality.

FEATURES & BENEFITS

◆ Hot Pluggable QSFP form factor

◆ Supports 25.78125Gbps per channel

◆ Up to 70m transmission with OM3 multimode fiber

◆ Up to 100m transmission with OM4 multimode fiber

◆ Low Power Dissipation, MAX 1.8W

◆ Operating Case Temperature: 0℃ to +70℃/-5℃ to +85℃

PRODUCT APPLICATIONS

Ethernet for 100GBASE-SR4

InfiniBand EDR, FDR, & QDR

Proprietary Interconnections

Super QSFP SR4 100Gbps Optical Transceiver

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: 1.8W(MAX)

Transmitter Type: VCSEL

Receiver Type: PIN

SPECIFICATIONS

SFF-8636 Management Interface

SFF-8661: Pluggable Module

SFF-8679: General Electrical

IEEE 802.3bm: Physical Layer Specifications and Management Parameters

ROHS-6: Environment Safety

ES-12-00-0021

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℃/-5℃ to +85℃

Relative Humidity:0 to 85%

Partial PN Table

PN	Package	Description	Reach	Protocol Support	Data Rate	Temp	Power Consumption	Optical Connector	Transceiver	Receiver	WaveLength
PA01QMA01-SD-R	S-QSFP	SR4	70m(OM3)/100m(OM4)	Ethernet	100Gbps	0-70℃	1.8W	MPO	VCSEL	PIN	850nm
PA01QMA0E-SD-R	S-QSFP	SR4	70m(OM3)/100m(OM4)	Ethernet	100Gbps	-5-85℃	1.8W	MPO	VCSEL	PIN	850nm