

QSFP+ SR4 40G Optical Transceiver



OVERVIEW

Luxshare-TECH 40Gbps QSFP+ SR4 transceiver is designed for 40G Ethernet links with short-reach communication. The link distance up to 100m and 150m over OM3 and OM4 respectively. 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-SR4 and breakout 4x10GBASE-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
- ◆ Support 10.3125Gbps per channel
- ◆ Low Power Dissipation, MAX 1.3W
- ◆ Operating Case Temperature: 0°C to +70°C
- ◆ Single MPO12 receptacle
- ◆ Link length of 100m on OM3 Multimode Fiber (MMF) and 150m on OM4 MMF

PRODUCT APPLICATIONS

Ethernet for 40GBASE-SR4
InfiniBand SDR, QDR, DDR, FDR
Fiber Channel (FC)

QSFP+ SR4 40G 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: 10.3125Gbps
Power Consumption: 1.3W(MAX)
Transmitter Type: VCSEL
Receiver Type: PIN

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-12-00-0017

Partial PN Table

PN	Package	Description	Reach	Protocol Support	Data Rate	Temp	Power Consumption	Optical Connector	Transceiver	Receiver	WaveLength
PA00QMA01-SD-R	QSFP+	SR4	100m (OM3)/ 150m(OM4)	Ethernet	40Gbps	0-70°C	1.3W	MPO	VCSEL	PIN	850nm
PA00QMA03-SD-R	QSFP+	SW4	60m (OM3)	Fiber Channel	56Gbps	0-70°C	1.3W	MPO	VCSEL	PIN	850nm

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%