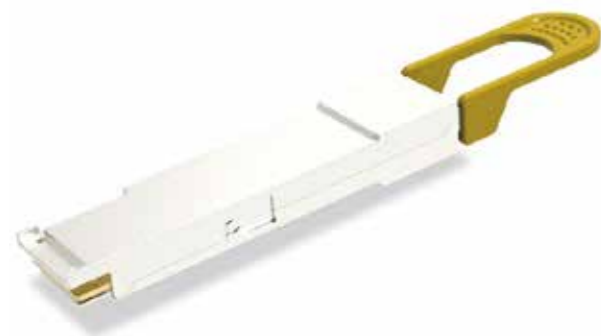


## QSFP+ SR4 40G Optical Transceiver

### 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)

## 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

### 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%

### SPECIFICATION

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