

## Ultra QSFP SR4 200G Optical Transceiver



### OVERVIEW

Luxshare-TECH 200Gbps U-QSFP SR4 optical transceiver provides the short-reach communication and interconnect applications. 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 53.125Gbps. The optical interface uses a parallel MPO12 optical connector. The electrical specifications are compliant with IEEE802.3cd for 200GBASE-SR4.

This transceiver utilizes 4x50G VCSEL and PIN detect to provide the reliable long life, good performance and quality.

### FEATURES & BENEFITS

- ◆ Hot Pluggable QSFP form factor
- ◆ Supports 212.5Gbps aggregate bit rate
- ◆ Low Power Dissipation, Typ. 5W
- ◆ Up to 70m transmission with OM3 multimode fiber and 100m transmission with OM4 multimode fiber
- ◆ 4x50G PAM4 VCSEL/PIN photo detector
- ◆ Operating Case Temperature: 0°C to +70°C

### PRODUCT APPLICATIONS

Ethernet for 100GBASE-SR4

# Ultra QSFP SR4 200G 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: 53.125Gbps  
Power Consumption: 5W(MAX)  
Transmitter Type: VCSEL  
Receiver Type: PIN

### SPECIFICATIONS

SFF-8636 Management Interface  
SFF-8679: General Electrical  
IEEE 802.3bm: Physical Layer Specifications and Management Parameters  
ROHS-6: Environment Safety  
ES-12-00-0025

### 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%

### Partial PN Table

PN	Package	Description	Reach	Protocol Support	Data Rate	Temp	Power Consumption	Optical Connector	Transceiver	Receiver	WaveLength	Note
PA02QMA01-SD-R	U-QSFP	SR4	70m(OM3)/ 100m(OM4)	Ethernet	200Gbps	0-70°C	4W	MPO	VCSEL	PIN	850nm	CDR Version
PA0BQMA01-SD-R	U-QSFP	SR4	70m(OM3)/ 100m(OM4)	Ethernet	200Gbps	0-70°C	4W	MPO	VCSEL	PIN	850nm	DSP Version