

## QSFP+ IR4 40G Optical Transceiver

### OVERVIEW



Luxshare-TECH 40Gbps QSFP+ IR transceiver is designed for 40G Ethernet links with long-reach communication. The link distance up to 2km with singlemode fiber. 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-LR4 and breakout 4x10GBASE-LR and QSFP+ MSA. 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
- DFB Laser/PIN Photo Detector
- Supports 10.3125Gbps per channel
- Maximum power consumption 3.5W
- Up to 2km transmission on SMF
- Operating Case Temperature: 0°C to +70°C
- Duplex LC receptacles

### PRODUCT APPLICATIONS

Ethernet for 40GBASE-LR4  
InfiniBand EDR, FDR

## TECHNICAL INFORMATION

### MATERIAL

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

### ELECTRICAL PERFORMANCE

Power Supply Voltage: 3.3V (3.13 to 3.47V)  
Data rate per lane: 10.3125Gbps  
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
PA00QSC02-NC-T	QSFP+	IR4	2KM	Ethernet	400Gbps	0-70°C	3.5w	LC	DFB	PIN	1270-1330nm

### 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-12-00-0014