

## SFP+ 10G SR Optical Transceiver



### OVERVIEW

Luxshare-TECH 10Gbps SFP+ optical transceiver can provide good performance and quality.

Luxshare-TECH 10Gbps SFP+ transceiver is designed for 10G Ethernet links with very high port density based on the new electrical and mechanical specification for the SFF-8431 and SFF-8432 respectively. The transceiver utilizes 850nm VCSEL and PIN Detect technology to provide the 300m link on OM3 MMF.

### FEATURES & BENEFITS

- ◆ Hot Pluggable SFP+ form factor
- ◆ Supports 10.3125Gbps
- ◆ Low Power Dissipation, MAX 0.8W
- ◆ Operating Case Temperature: 0°C to +70°C/-40°C to +85°C
- ◆ Up to 80m transmission with OM2 MMF
- ◆ Up to 300m transmission with OM3 MMF

### PRODUCT APPLICATIONS

Ethernet for 10GBASE-SR  
InfiniBand QDR, DDR, SDR

# SFP+ 10G SR Optical Transceiver

## TECHNICAL INFORMATION

### MATERIAL

Nickel plated zinc die cast shells & latching  
Mechanism parts  
Optical plastic lens

### ELECTRICAL PERFORMANCE

Power Supply Voltage: 3.3V (3.14 to 3.46V)  
Data rate per lane: 10.3125Gbps  
Power Consumption: 0.8W(MAX)  
Transmitter Type: VCSEL  
Receiver Type: PIN

### SPECIFICATIONS

SFF-8472 Management Interface  
SFF-8432: Pluggable Module  
SFF-8431: General Electrical  
GR-468: Reliability Qualification  
IEEE 802.3ae: Physical Layer Specifications and Management Parameters  
ROHS-6: Environment Safety  
ES-12-00-0005

### Partial PN Table

PN	Package	Description	Reach	Protocol Support	Data Rate	Temp	Power Consumption	Optical Connector	Transceiver	Receiver	WaveLength
PA01SMA01-SD-T	SFP+	SR	80m(OM2)/ 300m(OM3)	Ethernet	10Gbps	0-70°C	0.8W	LC	VCSEL	PIN	850nm
PA01SMA0H-SD-T	SFP+	SR	80m(OM2)/ 300m(OM3)	Ethernet	10Gbps	-40-85°C	0.8W	LC	VCSEL	PIN	850nm

### MECHANICAL PERFORMANCE

SFP Module Insertion: 18N(MAX)  
SFP Module Extraction: 12.5N(MAX)  
SFP 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 / -40°C to +85°C  
Relative Humidity: 0 to 85%