

## SFP+ 10G BIDI Optical Transceiver



### OVERVIEW

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 1330nm/1270nm DFB and PIN Detect technology to provide the 10km link on single-strand SMF.

### FEATURES & BENEFITS

- ◆ Hot Pluggable SFP+ form factor with single-LC connector
- ◆ Up to 11.1Gbps Data rate
- ◆ 1270nm DFB laser and PIN receiver for uplink
- ◆ 1330nm DFB laser and PIN receiver for downlink
- ◆ Low Power Dissipation, MAX 1.5W
- ◆ Operating Case Temperature: 0°C to +70°C/-40°C to +85°C

### PRODUCT APPLICATIONS

Ethernet for 10GBASE-BX  
Ethernet for 10GBASE-LR/LW

# SFP+ 10G BIDI 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, up to 11.1Gbps  
Power Consumption: 1.5W(MAX)  
Transmitter Type: DFB  
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-12-00-0002

### Partial PN Table

PN	Package	Description	Reach	Protocol Support	Data Rate	Temp	Power Consumption	Optical Connector	Transceiver	Receiver	WaveLength
PA01SSD22-NC-T	SFP+	BIDI	10km	Ethernet	10Gbps	0-70°C	1.5W	Signle-LC	DFB	PIN	T1270/R1330nm
PA01SSD32-NC-T	SFP+	BIDI	10km	Ethernet	10Gbps	0-70°C	1.5W	Signle-LC	DFB	PIN	T1330/R1270nm
PA01SSD2H-NC-T	SFP+	BIDI	10km	Ethernet	10Gbps	-40-85°C	1.5W	Signle-LC	DFB	PIN	T1270/R1330nm
PA01SSD3H-NC-T	SFP+	BIDI	10km	Ethernet	10Gbps	-40-85°C	1.5W	Signle-LC	DFB	PIN	T1330/R1270nm

### 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%