

## Ultra OSFP SR8 400G Optical Transceiver



### OVERVIEW

Luxshare-TECH 400Gbps U-OSFP optical transceiver can provide new generation performance of OSFP by higher data transfer rate.

Luxshare-TECH transceiver provides high performance optical interconnection for data communication. The transceiver operates over multimode fiber cable by using a nominal wavelength of 850nm VCSEL laser. There are eight channel signal lanes in each direction with 400Gbps aggregate bandwidth. Each electrical lane operates at 26.5625 Gbps / 53.125 Gbps (PAM4 encoded). And all the design is based on the industry standard specifications, such as SFF-8679, SFF-8636 and OSFP MSA specification.

### FEATURES & BENEFITS

- ◆ Hot Pluggable OSFP form factor
- ◆ Supports 400Gbps PAM4 mode and 200G NRZ mode
- ◆ Power Dissipation, Typ. 10.0W
- ◆ Operating Case Temperature: 0°C to +70°C
- ◆ 8x50Gbps PAM4 VCSEL/PIN photo detector
- ◆ Single MPO-16 receptacle
- ◆ Up to 70m transmission with OM3 MMF
- ◆ Up to 100m transmission with OM4 MMF

### PRODUCT APPLICATIONS

Ethernet for 400GBASE-SR8  
HPC Interconnects  
Proprietary Interconnections

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## 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: 12W(MAX)  
Transmitter Type: VCSEL  
Receiver Type: PIN

### SPECIFICATIONS

Compliant to OSFP MSA Rev 2.0  
SFF-8636 Management Interface  
SFF-8679: General Electrical  
IEEE 802.3cd: Physical Layer Specifications and Management Parameters  
ROHS-6: Environment Safety  
ES-12-00-0029

### Partial PN Table

PN	Package	Description	Reach	Protocol Support	Data Rate	Temp	Power Consumption	Optical Connector	Transceiver	Receiver	WaveLength	Note
PA0BFMA01-SD-R	U-OSFP	SR8	70m(OM3)/ 100m(OM4)	Ethernet	400Gbps	0-70°C	12W	MPO	VCSEL	PIN	850nm	DSP Version

### MECHANICAL PERFORMANCE

OSFP Module Insertion: 90N(MAX)  
OSFP Module Extraction: 50N(MAX)  
OSFP 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%