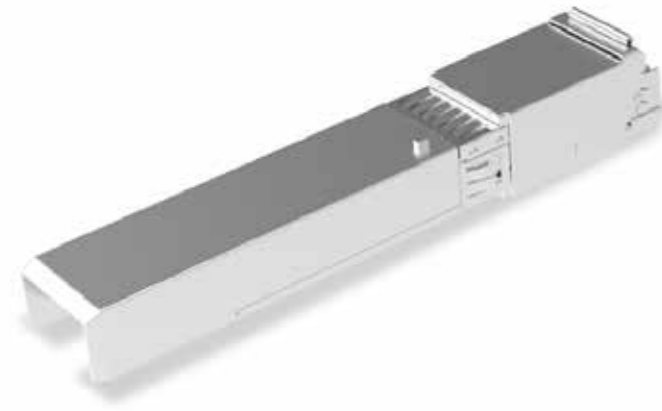


## Ultra SFP-DD SR2 100G Optical Transceiver

### OVERVIEW



Luxshare-TECH 100Gbps U-SFP-DD 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 two data lanes in each direction with each lane operating at 53.125Gbps. The optical interface uses a parallel MPO12 optical connector. They are compliant to SFF-8432, SFF-8636 and SFP-DD MSA specification. This transceiver utilizes 2x50G VCSEL and PIN detect to provide the reliable long life, good performance and quality.

### FEATURES & BENEFITS

- Hot Pluggable SFP-DD form factor
- Supports 106.25Gbps aggregate bit
- Low Power Dissipation, MAX. 2.5W
- Single MPO12 receptacle
- Up to 70m transmission with OM3 multimode fiber and 100m transmission with OM4 multimode fiber
- 2x50G PAM4 VCSEL/PIN photo detector
- Operating Case Temperature: 0°C to +70°C

### PRODUCT APPLICATIONS

Ethernet for 100GBASE-SR2

## TECHNICAL INFORMATION

### MATERIAL

Nickel plated zinc die cast shells & latching  
Mechanism parts  
Thermoplastic cable pull tab  
Optical plastic lens  
Receiver Type: PIN

### ELECTRICAL PERFORMANCE

Power Supply Voltage: 3.3V (3.14 to 3.46V)  
Data rate per lane: 53.125Gbps  
Power Consumption: 2.5W(MAX)  
Transmitter Type: VCSEL  
Receiver Type: PIN

### ENVIRONMENTAL

Storage Temperature Range:-40°C to +85°C  
Operating Temperature Range:0°C to +70°C  
Relative Humidity:0 to 85%

### SPECIFICATION

Compliant to SFP-DD Rev 3.0  
Compliant to Class 1 Laser Safety  
SFF-8636 Management Interface  
SFF-8679: General Electrical  
IEEE 802.3cd: Physical Layer Specifications and Management Parameters  
ROHS-6: Environment Safety  
ES-12-00-0022

### Partial PN Table

PN	Package	Description	Reach	Protocol Support	Data Rate	Temp	Power Consumption	Optical Connector	Transceiver	Receiver	WaveLength	Note
PA0ASMA01-SD-R	U-SFP-DD	SR2	70m(OM3)/ 100m(OM4)	Ethernet	100Gbps	0-70°C	2.5w	MPO	VCSEL	PIN	850nm	DSP Version