

Ultra OSFP SR8 400G Optical Transceiver

OVERVIEW



Luxshare-TECH 400Gbps U-OSFP optical transceiver can provide new generation performance of OSFP by higher date 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.technology to provide the 70m and 100m links on OM3 and OM4 MMF respectively.

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

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

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%

SPECIFICATION

Compliant to OSFP MSA Rev 2.0
SFF-8636 Management Interface
SFF-8679: General Electrical
IEEE 802.3cd: Physical Layer Specifications and Manage-
ment 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	1.2w	MPO	VCSEL	PIN	850nm	DSP Version