

Super OSFP 200G Active Optical Cable



OVERVIEW

Luxshare-TECH 200Gbps OSFP active optical cable can provide new generation performance of QSFP by higher data transfer rate.

Luxshare-TECH AOC is a high-performance optical cable for short-reach communication and interconnect applications. The S-OSFP AOC operate over multimode fiber cable by using a nominal wavelength of 850nm VCSEL laser. The S-OSFP AOC cable length can be customized to various length. There are eight channel signal lanes in each direction with 200Gbps aggregate bandwidth. 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 Cable End
- ◆ Supports auto-rate detection for both 25.78125Gbps and 10.3125Gbps operation
- ◆ Low Power Dissipation, MAX 3.5W Each End
- ◆ Operating Case Temperature: 0°C to +70°C

PRODUCT APPLICATIONS

Ethernet for 2x40G/100GBASE-SR4
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
Optical fibre cable

ELECTRICAL PERFORMANCE

Power Supply Voltage: 3.3V (3.14 to 3.46V)
Data rate per lane: 25.78125Gbps
Power Consumption: 3.5W(MAX)
Transmitter Type: VCSEL
Receiver Type: PIN

SPECIFICATIONS

Compliant to OSFP Rev 2.0
SFF-8636 Management Interface
SFF-8679: General Electrical
IEEE 802.3bm: Physical Layer Specifications and Management Parameters
ROHS-6: Environment Safety
ES-12-00-0030

Partial PN Table

PN	Package	Description	Reach	Protocol Support	Data Rate	Temp	Power Consumption	Optical Connector	Transceiver	Receiver	WaveLength
PA0FF2301-SD-R	S-OSFP	AOC	3m	Ethernet	200Gbps	0-70°C	3.5W	NA	VCSEL	PIN	850nm
PA0FF2401-SD-R	S-OSFP	AOC	5m	Ethernet	200Gbps	0-70°C	3.5W	NA	VCSEL	PIN	850nm
PA0FF2501-SD-R	S-OSFP	AOC	7m	Ethernet	200Gbps	0-70°C	3.5W	NA	VCSEL	PIN	850nm
PA0FF2601-SD-R	S-OSFP	AOC	10m	Ethernet	200Gbps	0-70°C	3.5W	NA	VCSEL	PIN	850nm
PA0FF2701-SD-R	S-OSFP	AOC	15m	Ethernet	200Gbps	0-70°C	3.5W	NA	VCSEL	PIN	850nm
PA0FF2801-SD-R	S-OSFP	AOC	20m	Ethernet	200Gbps	0-70°C	3.5W	NA	VCSEL	PIN	850nm

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%