

## SFP+ 10G Active Optical Cable



### OVERVIEW

Luxshare-TECH 10Gbps SFP+ active optical cable can provide good performance and quality.

Luxshare-TECH 10Gbps SFP+ active optical cable 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 SFP+ AOC cable length can be customized to various length. The AOCs can provide the improved signal integrity, longer distance, lower dissipation and better bit error rate performance.

### FEATURES & BENEFITS

- ◆ Hot Pluggable SFP+ Cable End
- ◆ Supports 10.3125Gbps per channel
- ◆ Low Power Dissipation, MAX 0.8W Each End
- ◆ Operating Case Temperature: 0°C to +70°C

### PRODUCT APPLICATIONS

Ethernet for 10GBASE-SR  
InfiniBand QDR, DDR, SDR

# SFP+ 10G Active Optical Cable

## 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: 10.3125Gbps  
Power Consumption: 0.8W(MAX)  
Transmitter Type: VCSEL  
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-12-00-0001

### MECHANICAL PERFORMANCE

SFP Module Insertion: 18N(MAX)  
SFP Module Extraction: 12.5N(MAX)  
SFP Module Retention: 90N(MIN)  
Insertion and removal cycles: 50Cycles  
Cable outer Diameter: 2.9 to 3.0mm

### ENVIRONMENTAL

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

### Partial PN Table

PN	Package	Description	Reach	Protocol Support	Data Rate	Temp	Power Consumption	Optical Connector	Transceiver	Receiver	WaveLength
PA0SS1102-SD-T	SFP+	AOC	0.5M	Ethernet	10Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS1101-SD-T	SFP+	AOC	1M	Ethernet	10Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS1201-SD-T	SFP+	AOC	2M	Ethernet	10Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS1301-SD-T	SFP+	AOC	3M	Ethernet	10Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS1401-SD-T	SFP+	AOC	5M	Ethernet	10Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS1501-SD-T	SFP+	AOC	7M	Ethernet	10Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS1601-SD-T	SFP+	AOC	10M	Ethernet	10Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS1701-SD-T	SFP+	AOC	15M	Ethernet	10Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS1801-SD-T	SFP+	AOC	20M	Ethernet	10Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS1901-SD-T	SFP+	AOC	30M	Ethernet	10Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm