

Extreme OSFP(800G)/Ultra OSFP(400G) High Speed I/O Connector & Cage



OVERVIEW

Luxshare-TECH is the leading Extreme OSFP(800G)/Ultra OSFP(400G) solution provider in the industry by developing the end-to-end products including copper cable, the corresponding connector and cage.

Luxshare-TECH Extreme/Ultra OSFP board I/O connector combines 8channels operating at speeds up to112Gbps/56Gbps per channel into one affordable high-density interface(OSFP) mating with copper cable assembly oroptical Transceiver. The total port band width is up to 800Gbps/400Gbps.

Luxshare-TECH Extreme/Ultra OSFP connector integrate a standard 60-position gold finger interface. And the corresponding Cage provides high reliability and EMI/EMC capability. Luxshare-TECH could provide diverse configuration on the cage type. All the design of Luxshare-TECH Extreme OSFP is based on the industry standard specifications, such as SFF-8679, SFF-8636 and OSFP MSA specification.

FEATURES & BENEFITS

- Using 76 position PT (Pluggable Transceiver) SMT connector with 8 channels
- Ultra/Extreme OSFP I/O connector and cage mating with the standard 400Gbps/800Gbps optical transceiver and copper cable
- Employ 8 lanes operated up to 56G PAM4 modulation or 112G PAM4 modulation
- Providing solutions up to 400Gbps or 800Gbps aggregated bandwidth
- Belly to belly application

PRODUCT APPLICATIONS

Data center  
Servers/Storage Devices  
Switches/Routers  
Base Stations  
Test and Measurement Equipment  
Networking Interface Card

INDUSTRY STANDARDS

OSFP MSA

TECHNICAL INFORMATION

MATERIAL

Cage: Copper Alloy  
EMI Spring: Stainless Steel or Copper Alloy  
**Connector**  
Housing & Molding: High temperature thermoplastic(UL 94V-0)  
Terminals: Copper Alloy  
Contact Area Finish: Gold over Nickel  
Solder Area Finish: Tin over Nickel

ELECTRICAL PERFORMANCE

Voltage: 30V AC/DC MAX  
Current: 0.5A MAX per signal contact  
1.5A MAX low speed power contact

ENVIRONMENTAL

**Connector**  
Operating temperature: -40°C TO +85°C  
Relative humidity: 20% to 80%  
Atmospheric pressure: 650mm to 800mm of Hg (86 ~106Kpa)  
**Cage**  
Operating temperature : -55°C TO +85°C

MECHANICAL PERFORMANCE

Rated Durability Cycles: 100  
Mating Force: 0.67N/pin MAX  
Unmating Force: 0.5N/pin MIN  
**Insertion Force to PCB(immersion OSP plated):**  
544N for 1X1  
1800N for 1X4  
**Extraction Force to PCB(immersion OSP plated):**  
88N for 1X1  
240N for 1X4

TOOLING INFORMATION

Configurations:1XN (N=1,4)

PACKAGING

Connector: Tape & Reel  
Cage: Tray

SPECIFICATION

ES-11-00-0020  
ES-11-00-0021

Partial PN Table

Product Numbers	Product Description
PEPB60-6300-000-1R	Ultra OSFP Connector with solder fixture, 30u"Au
PEPB60-6301-000-1R	Ultra OSFP Connector without solder fixture, 30u"Au
PEPC12-E300-010-0R	Extreme/Ultra OSFP 1X1 CAGE
PEPC11-E300-100-0R	Extreme/Ultra OSFP 1X1 CAGE, normal EON, with logo, nickel preplating
PEPC41-E300-100-0R	Extreme/Ultra OSFP 1X4 CAGE, normal EON, with logo, nickel preplating