

Super QSFP-DD and Ultra QSFP-DD High Speed I/O Connector & Cage



OVERVIEW

Luxshare-TECH's Super QSFP-DD and Ultra QSFP-DD connector has 76 contacts with 0.8mm pitch, it could be use in high speed serial applications. There are 8 channels per port, supports up to 400Gb/s in aggre gate. Super QSFP-DD and Ultra QSFP-DD module can be inserted into a U-QSFP-DD port, just uses 4 of 8 channels. U-QSFP-DD includes cages insingle,ganged (1X2) configurations. Cage construction features EMI shielding available in the form of metal spring. Additional features available include light pipes, heat sinks and many other custom features.

INDUSTRY STANDARDS

QSFP-DD MSA

FEATURES & BENEFITS

- Compliant with QSFP-DD MSA
- Using 76 position PT(Pluggable Transceiver)SMT
- connector with 8 channels
- U-QSFP-DD connector and cage backward compatible
- with QSFP+ and S-QSFP transceiver module and copper cable, provide flexibility for system designers
- Employ eight lanes operated up to 25Gbps(NRZ) modulation or 50Gbps(PAM4) modulation
- Providing solutions up to 200Gbps or 400Gbps-aggregate
- U-QSFP-DD can support 36 ports of 400GbE in a single Rack Unit providing over 14.4 Tb/s bandwidth in a 1RU linecard
- Enhanced EMI cage design provides excellent EMI
- protection and thermal performance
- Available in EMI spring
- Behind bezel and thru bezel
- Belly-to-belly mounting capability for panel density
- Light pipe and heat sink options available

PRODUCT APPLICATIONS

Data center

Servers/Storage Devices

Switches/Routers

SAN,NIC cards

Test and Measurement Equipment

Networking Interface Card

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(RMS)/DC MAX

Current: 0.5A maximum per contact

ENVIRONMENTAL

Connector

Operating temperature: -40°C TO +85°C Storage temperature: -15°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: 1.18N/pin MAX

Unmating Force: 0.39N/pin MIN

Insertion Force to PCB(immersion OSP plated):

544N for 1X1

714N for 1X2

1024N for 1X4

Extraction Force to PCB(immersion OSP plated):

88N for 1X1

176N for 1X2

350N for 1X4

TOOLING INFORMATION

Configurations:

1XN (N=1,2,4)

2XN (N=1)

PACKAGING

Connector: Tape & Reel

Cage: Tray

SPECIFICATION

ES-11-00-0026

ES-11-00-0027

Partial PN Table

Product Numbers	Product Description
PQD076-7520-001-1H	S-QSFP-DD 1X1 Connector,76Pin,SMT TYPE
PQD076-7521-001-1H	S-QSFP-DD 1x1 Connector with PAD type
PQDC10-E3MC-110-0R	QSFP-DD 1X1 CAGE_Nickel,No EON in the rear-end ,w/ Logo&HS,w/ painted lightpipe
PQDC24-E3JB-010-0R	QSFP-DD 1X2 CAGE_Nickel,2 EON in the rear-end,w/ Logo&HS(15.5),w/ lightpipe
PQDC24-E3KB-010-0R	QSFP-DD 1X2 CAGE_Nickel,2 EON in the rear-end,w/Logo&HS(18.0),w/ lightpipe

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