

Super QSFP(100G) and Ultra QSFP(200G) High Speed I/O Connector & Cage

OVERVIEW



Luxshare-TECH 200Gbps Ultra QSFP and 100Gbps Super QSFP high speed I/O is widely adopted in the interconnection among switch units in data center based on Ethernet, and adopted in Super-computing system based on IBTA. It is a high reliability, high aggregate data bandwidth and cost-saving solution.

Luxshare-TECH 200G Ultra QSFP and 100G Ultra QSFP high speed I/O could be mated with standard QSFP56 and QSFP28 copper cables or optical transceiver that combine four channels operating at speeds up to 56Gbps per channel or 28Gbps per channel.

Luxshare-TECH Ultra QSFP and Super QSFP I/O connector is a standard 38-position and SMT type of excellent SI performance. And 1xN and 2xN configuration of cage are available that is able to meet belly-to-belly application easily.

FEATURES & BENEFITS

- Enhanced EMI cage design provides excellent EMI-protection and thermal performance
- Behind bezel and Thru bezel
- Belly-to-belly mounting capability for panel density
- Light pipe and heat sink options available
- Stacked type of connector supports 56Gb/s PAM4, SMT and Press-Fit options

PRODUCT APPLICATIONS

Data center
Servers/Storage Devices
High Performance Computing (HPC)
Switches/Routers
SAN,NIC cards
HBA'S

INDUSTRY STANDARDS

Connector: SFF-8682
Cage: SFF-8683

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

MECHANICAL PERFORMANCE

Rated Durability Cycles: 250(Single port),100(Stacked)
Mating Force: 1.05N/pin MAX(Single port)
Unmating Force: 0.79N/pin MIN(Single port)
Insertion Force to PCB(1X1 Cage):544N

ELECTRICAL PERFORMANCE

Voltage: 30V AC(RMS)/DC MAX
Current: 0.5A MAX per contact

ENVIRONMENTAL

Single port
Operating temperature: -40°C to +85°C
Non-operating temperature: -55°C to +105°C
Relative humidity: 20% to 80%
Atmospheric pressure: 650mm to 800mm of Hg (86 ~106Kpa)
Stacked
Operating temperature : -40°C to +85°C

TOOLING INFORMATION

Configurations:
1XN (N=1,2,4)
2XN (N=1,2)

PACKAGING

Connector: Tape & Reel
Cage: Tray

SPECIFICATION

ES-11-00-0024
ES-11-00-0025

Partial PN Table

Product Numbers	Product Description
PQP038-7510-001-1H	S-QSFP 1X1 Conn, 38P,Au 30u",SMT,With solder pad
PQP038-7500-001-0H	S-QSFP 1X1 Conn, 38P,Au 30u",SMT,Without solder pad
PQPA12-1310-3E1-0R	S-QSFP Cage+Conn 2X1,76P,Au 30u",press-fit EON
PQPB76-6300-000-1H	U-QSFP 2X1 conn SMT,Contact Area:Au 30u",Solder Area:Matte Tin plated
PQPC10-E300-010-0R	S-QSFP 1X1 Cage No EON in the rear-end, window opened on the top
PQPC10-E360-010-0R	S-QSFP 1X1 Cage No EON in the rear-end, w/heatsink, w/PCI
PQPC15-E300-010-0R	S-QSFP 1X1 Cage 2 EON in the rear-end, window opened on the top
PQPC15-E300-110-0R	S-QSFP 1X1 Cage 2 EON in the rear-end, sealing on the top
PQPC15-E300-000-0R	S-QSFP 1X1 Cage 2 EON in the rear-end, round holes on the top
PQPC15-E360-010-0R	S-QSFP 1X1 Cage 2 EON in the rear-end, 13.7mm heatsink, no light pipe
PQPC10-E380-010-0R	S-QSFP 1X1 Cage 2 EON in the rear-end, 23mm heatsink, no light pipe
PQPC10-E360-210-1R	S-QSFP WITH 5 DEG ANGLE,TAPE&REEL
PQPC24-E300-010-0R	S-QSFP 1X2 Cage 2 EON in the rear-end, window opened on the top
PQPC24-E360-010-0R	S-QSFP 1X2 Cage 2 EON in the rear-end, w/heatsink, w/o lightpipe
PQPC20-E305-000-0R	S-QSFP 1X2 Cage no EON in the rear-end, round holes on the top
PQPC44-E300-010-0R	S-QSFP 1X4 Cage no EON in the rear-end, window opened on the top
PQPC44-E360-010-0R	S-QSFP 1X4 Cage no EON in the rear-end, w/heatsink, w/o lightpipe
PQPC44-E3B0-010-0R	S-QSFP 1X4 Cage no EON in the rear-end, w/heatsink, w/o lightpipe
PQPC44-E303-010-0R	S-QSFP 1X4 Cage 1 EON in the rear-end, 2 lightpipe
PQPC44-E300-110-0R	S-QSFP 1X4 Cage 1 EON in the rear-end, window opened on the top
PQPC40-E3B5-010-0R	S-QSFP 1X4 Cage no EON in the rear-end, w/heatsink, 1lightpipe
PQPC64-E300-010-0R	S-QSFP 1X6 Cage 1 EON in the rear-end, window opened on the top
PQPC64-E360-010-0R	S-QSFP 1X6 Cage 1 EON in the rear-end, w/heatsink, no lightpipe
PQPCA0-E3MC-090-0R	U-QSFP 2X1 CAGE lightpipe COATING
PQPCA0-E303-100-0R	U-QSFP 2X1 CAGE, w/lightpipe, w/o heatsink
PQPCA0-E303-090-0R	U-QSFP 2X1 CAGE, w/lightpipe and heatsink, window opened on the top