

ExtremePort™ OSFP-XD 112G Connectors

EXTREMEPORT™ OSFP-XD 112G INTERCONNECT SYSTEM

Amphenol's ExtremePort™ OSFP-XD 112G interconnect system is comprised of a 120-position, 0.6mm pitch connector built for use in high-speed serial applications. Each port supports up to 1.6Tb/s in aggregate over a 16 x 112Gb/s electrical interface. The OSFP-XD footprint is optimized for signal integrity performance. The single OSFP-XD SMT connector is enhanced for low crosstalk and has ground communication for resonance dampening. It is also designed for 1U applications. An integrated heat sink for optimal thermal performance is a design feature. Amphenol ExtremePort™ OSFP-XD 112G interconnect system is one of the industry's leading multi-lane pluggable form factors used across Ethernet, Fiber Channel, and InfiniBand™.

- Operating at 112Gb/s PAM-4 for up to 1.6Tb/s aggregated bandwidth solution
- OSFP-XD series product with 16 channels per port
- Multiple connector and cage configurations



TARGET MARKETS



FEATURES

- Electrical interface employs 16 lanes that support 112Gb/s PAM4, providing solutions up to 1.6Tb/s aggregate bandwidth
- Enables up to 57.6 Tb/s aggregate bandwidth in a single switch slot
- Supports passive & active copper and optical solutions products
- MSA supported standard interface
- Multiple connector and cage configurations
- Multiple heat sink options
- RoHS & REACH compliant

BENEFITS

- Enables 800G and 1.6Tb/s aggregate bandwidth per port
- A single switch slot can have 36 ports OSFP-XD
- Enables use of DAC, short and long-range optical
- Single (1x1) and ganged (1xN) cage configurations
- Amphenol offering meets or exceeds MSA-defined product specifications
- Allows users to choose from multiple options to maximize heat dissipation
- Environmentally friendly

TECHNICAL INFORMATION

MATERIAL

- Housing: Black color, Glass reinforced, Lead-free Solder Re-flow Process Compatible Thermal Plastic
- Contacts Base Material: Copper Alloy
- Plating Solder Tails: Matte Tin over Nickel
- Plating Mating Area: Gold
- Resonance Dampening Feature: Stainless Steel

ELECTRICAL PERFORMANCE

- Operating Voltage: 30VDC per contact
- Operating Current: 0.5A per signal contact; 2.5A per power contact
- Differential Impedance: $92\Omega \pm 10\Omega$

MECHANICAL PERFORMANCE

- Durability: 100 mating cycles
- Mating Force: 40N max (55N if the cage has a riding heat sink)
- Un-mating Force: 30N max (45N if the cage has a riding heat sink)
- PCB thickness for 1xN Cage:
 - 1.40mm min. for single mounted
 - 2.20mm min. for belly-to-belly mounted

ENVIRONMENTAL

- Operating and (Storage) Temperature Range: -40°C to +85°C
- RoHS & REACH & halogen-free

SPECIFICATIONS

- Cage Mounting: Through Bezel
- EMI Options: Spring Fingers
- Configurations: 1xN (N = 1, 4)

PACKAGING

- Tape and Reel (connector)
- Tray (cage)

TARGET MARKETS/APPLICATIONS



Switch
Router and Server
Wireless Base Station
Telecom



Datacom
Datacom/Networking Equipment
Hubs
Data center switching applications
Storage System
Supercomputer
High-density Ethernet Switching / Routing
Products



Test Equipment
Measuring equipment

PART NUMBERS

Description	Part Number
ExtremePort™ OSFP-XD 112G 1x1 SMT connector	V62-CDZ01-0400XXT (X represents various options)
OSFP-XD 1x1 cage assembly only	V62-CAZ01-2000001
OSFP-XD 1x1 cage assembly with extruded heat sink	V62-CAZ10-2G20001
OSFP-XD 1x4 cage assembly only	V62-CAZ04-2000001
OSFP-XD 1x4 cage assembly with right-side LP	V62-CAZ08-20000R1
OSFP-XD 1x4 cage with extruded heat sink and right-side LP	V62-CAZ09-2GR0001
OSFP-XD EMI dust cover, conductive rubber with vent holes	V62-ZA018-00000XP (X represents various options)

Find part number details using the search box on www.amphenol-cs.com