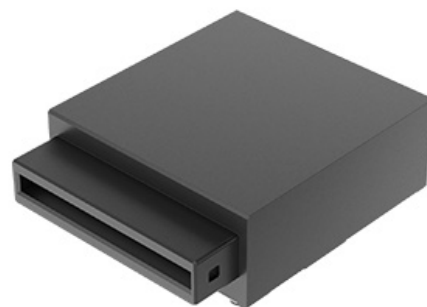


ExtremePort™ OSFP-XD PCIe® Gen 6 Connectors

THERMALLY OPTIMIZED HIGH-DENSITY OSFP-XD SOLUTION

Amphenol is at the forefront of OSFP-XD (Octal Small Form Factor Pluggable eXtra Dense) interconnect design, setting new industry standards with our innovative designs. Amphenol's latest eXtra Dense solution, the ExtremePort™ OSFP-XD PCIe® Gen6 interconnect system, is comprised of a 120-position, 0.6 mm pitch connector designed for use in high-speed serial applications. Each port supports 64 GT/s for up to bidirectional 256 GB/s on an x16 configuration. This OSFP connector from Amphenol has a footprint and is optimized for signal integrity performance. The single OSFP-XD SMT connector is enhanced for low crosstalk and has ground communing for resonance dampening. This PCIe® Gen 6 high-speed interconnect is also designed for 1U applications. This next-generation server connector is thermally optimized with a heatsink to maximize heat dissipation.



TARGET MARKETS



Amphenol ExtremePort™ OSFP-XD PCIe® Gen 6 interconnect system is one of the industry's leading multi-lane pluggable form factors used for data centers, AI/ML, and high-performance computing (HPC) applications.

- Operating at 64 Giga transfers per second (GT/s) for up to bidirectional 256 GB/s on an x16 configuration
- OSFP-XD PCIe® Gen 6 series product with 16 channels per port
- Multiple connector and cage configurations

FEATURES

- Electrical interface employs 16 lanes that support 64 GT/s for up to bidirectional 256 GB/s on an x16 configuration
- Leveraging existing PAM4 signaling instead of the previous NRZ signaling
- Supports passive & active copper and optical solutions products
- MSA supported standard interface
- Multiple connector and cage configurations
- Multiple heatsink options
- RoHS & REACH compliant

BENEFITS

- Enables up to 256 GB/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 the user to choose from multiple options to maximize heat dissipation
- Environmental friendly

TECHNICAL INFORMATION

MATERIAL

- Housing: Black color, glass-reinforced, Lead-free solder reflow process compatible thermoplastic
- 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: 30 V DC per contact
- Operating Current: 0.5 A per signal contact; 2.5 A per power contact
- Differential Impedance: $85 \Omega \pm 10 \Omega$

MECHANICAL PERFORMANCE

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

ENVIRONMENTAL

- Operating / Storage Temperature Range: -40°C to $+85^{\circ}\text{C}$
- RoHS & REACH & Halogen-free

SPECIFICATIONS

- Cage Mounting: Through bezel
- EMI Options: Spring fingers
- Configurations:
 - 1xN (N = 1, 2, 4)

PACKAGING

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

TARGET MARKETS/APPLICATIONS



Switch
Router and Server
Wireless Base Station
Telecom
Datacom
Datacom/Networking Equipment
Hubs
High-density Ethernet Switching/Routing Products



Data center Switching Applications
Storage System
Supercomputer
Server



Test Equipment
Measuring Equipment

PART NUMBERS

Description	Part Numbers
ExtremePort OSFP-XD PCIe® Gen6 1x1 SMT connector	V62-CFZ01-04003XT (X represents various options)
OSFP-XD 1x1 cage assembly only	V62-CAZ01-2000001
OSFP-XD 1x1 cage assembly with extruded heatsink	V62-CAZ10-SG16001
OSFP-XD 1x2 cage assembly with extruded heatsink	V62-CAZ15-SGR2501
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 heatsink and right-side LP	V62-CAZ09-2GR0001
OSFP-XD EMI dust cover	V62-ZA018-00000XP (X represents various options)

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