

CDFP PCIe Generation 6 Connector System >

The next-generation CDFP PCIe Generation 6 external cable system delivers high-speed data transmission rates up to 64Gbps PAM-4 and meets the PCI Express (PCIe) Generation 6 standard, enabling data centers to upgrade and meet the needs of data-intensive applications such as AI inter-rack; Compute Express Link (CXL); network interface cards (NICs); and just-a-bunch-of-disks (JBOD) and just-a-bunch-of-flash (JBOF) storage devices.



ADVANTAGES AND FEATURES

Enables high-speed data transmission rates up to 64Gbps PAM-4, 256Gbps per 16x connector

The design meets PCIe Generation 6 standards with 85-Ohm impedance and is upgradable to PCIe Generation 7 standards.

Facilitates design flexibility

The connector system is backward compatible with previous zCD generations; supports belly-to-belly configurations; offers various cable lengths up to 2.0m; and supports 4x, 8x and 16x configurations, including cable bifurcation.

Data Rates	Up to 64Gbps PAM-4, 256Gbps per 16x connector
Data Transmission Standard	PCIe Generation 6 (upgradable to PCIe Generation 7)
Form Factor	SFF-TA-1032
Circuits	120 positions (16x connector)
Cable Lengths	0.5 to 2.0m
Operating Temperatures	-40 to +85°C

Reduces space requirements with high-density applications

With 16 lanes in a compact form factor, the connector meets SFF-TA-1032 standards.

Delivers enhanced signal integrity

The improved cage design uses electromagnetic interference (EMI) spring fingers to help prevent signal degradation.

MARKETS AND APPLICATIONS

Server and Storage

AI clusters
CXL 2.0/3.0 switching and memory systems
PCIe solid state drive (SSD) storage devices
High-performance computing systems
JBOD storage arrays
JBOF storage arrays

Networking

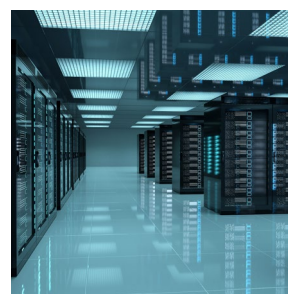
Enterprise computing systems
Top-of-rack switches
Disaggregated NICs

Telecommunications

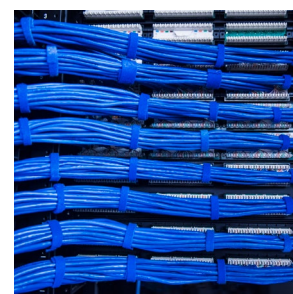
Core switches
Routers



AI Clusters



Enterprise Computing Systems



Core Switches

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PRELIMINARY SPECIFICATIONS

Reference Information

Packaging: Tray
Designed in: Millimeters
RoHS: Yes
Halogen Free: Yes
Glow Wire Capable: Yes
Form Factor Standard: SFF-TA-1032
Mates With: zCD connector,
CDFP PCIe Gen 6 connector

Electrical

Voltage (max.): 30V RMS/DC
Current (max.): 1.0A
Contact Resistance: 10 milliohms
Dielectric Withstanding Voltage: 300V DC
Insulation Resistance: 100 Megohms

Mechanical

Cage Height: 12.98mm
Cage Width: 36.74mm
Cable Length: 0.5 to 2.0m
Attachment: Surface-mount technology
Circuit Size: 120 positions (16x connector)
Durability (max.): 250 cycles

Physical

Wafer Housing: High-temperature thermoplastic,
glass-filled UL 94V-0
Diecast Housing: Nickel-plated zinc alloy
EMI Fingers: Nickel-plated copper alloy
Cable: 29 AWG (data) and 31 AWG (side band)
Contact Plating: Gold
Underplating: Nickel
PCB Thickness: 1.35mm
Operating Temperatures: -40 to +85°C