

CDFP Connectors

AMPHENOL'S MOST BANDWIDTH-DENSE CONNECTOR

Amphenol's CDFP SMT connector system is a high-density pluggable form factor ready for PCIe® Gen 6.0, delivering 64 GT/s per lane and up to 128 Gb/s via x16 configurations.

- Meets SFF-TA 1032 specifications
- High-speed, scalable, and cost-effective solution supporting PCIe® Gen 4, 5, and 6
- Supports x16 (120 positions) configurations
- Delivers twice the bandwidth density of PCIe® Gen 5 and four times the bandwidth density of PCIe® Gen 4
- Supports passive copper & active copper, and optical cabling solutions



TARGET MARKETS



FEATURES

- 0.75 mm contact pitch
- Supports x16 PCIe® 6.0 configuration and specifications
- Backwards compatible with PCIe® Gen 4 and 5 cabling
- SMT mounted connector
- MSA supported standard connector & cage
- Compatible with passive copper, active copper, and optical cables

BENEFITS

- Meets SFF-TA 1032 specifications
- Delivers up to 64 GT/s per lane or 128 Gb/s via x16 configuration
- High-speed, scalable, and cost-effective solution supporting PCIe® Gen 4, 5, and 6
- Enables high-density PCB layouts and automated assembly for reduced manufacturing costs
- Compatibility with industry-standard modules, enabling easy upgrades and vendor flexibility
- Provides maximum application flexibility

TECHNICAL INFORMATION

MATERIAL

- Housing: Black, glass-reinforced, lead-free, reflow-compatible thermoplastic
- Contacts: Copper Alloy
- Mating Contact Plating: Gold
- Termination Contact Plating: Matte Tin over Nickel
- Cage: Zinc Die Cast with Nickel Plating

ELECTRICAL PERFORMANCE

- Operating Current: 1.5 A max. per power contact
- Operating Voltage: 30 V max. per contact
- Impedance: 85 Ω

MECHANICAL PERFORMANCE

- Rated Durability: 100 cycles
- Mating Force: 40 N max.
- Un-mating Force: 30 N

ENVIRONMENTAL

- Operating Temperature Range: -40 °C to +85 °C
- RoHS & Halogen-free

PACKAGING

- Tray

SPECIFICATIONS

- Cage Mounting: Screw Mounted
- Connector Mounting: SMT
- Configurations: $\times 16$

TARGET MARKETS/APPLICATIONS



Adapter Card
Routers
Switches
Wireless BBU



Data Center
High Performance Computing (HPC)
Server
Storage

PART NUMBERS

Description	Part Numbers
CDFP SMT Type $\times 16$ Cage Assembly	V94-AAZ04-0000X1
CDFP SMT 1 $\times$ N Connector Gen 6	V94-ADZ23-X0ASSXA

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

WHERE INNOVATION CONNECTS

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