

# CX2 Dual-Speed Connector System >

The CX2 Dual-Speed Connector System is a near-ASIC (near-chip) product that supports 224 Gbps PAM-4 signal speeds and enables BiPass cable system architecture at next-generation data rates.



## FEATURES AND ADVANTAGES

### Offers reduced cross talk (improved signal integrity, or SI) necessary for 224G signal speeds

Design ensures high-speed performance with excellent SI and minimal signal degradation

### Improves reliability and helps prevent mis-mating and accidental disconnection by ensuring full connector seating every time

The two-piece mated set of connector and socket features mechanical wipe and screw retention

### Enables maximum system performance and greater reach within the box

Uses larger-gauge 29 AWG high-performance twinax cable

Speed	Up to 224 Gbps
Current	0.5A (per mated contact)
Number of Circuits	32 differential pairs (DPs)
Pitch	4.00mm DP to DP 2.30mm row to row
Durability	50 cycles
Operating Temperature	-40 to +85°C

### Ensures next-generation high-speed performance using 224G channel

Isolated Tx/Rx with innovative shielding structure and high-performance twinax cable

### Minimizes risk of pin damage on PCB connector during installation

Fully protected "thumb-proof" mating interface



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## MARKETS AND APPLICATIONS

### Server and Storage

Data centers  
Servers and machine learning  
Computing

### Networking

Ethernet-based communications  
Artificial intelligence (AI)  
AI clusters  
AI infrastructure

### Telecommunications

Servers  
Routers  
Switches (ToR, Fabric)



*Data Centers*



*Ethernet-Based Communications*



*Routers*

## SPECIFICATIONS

### Reference Information

Series: 223767 (cable assembly)  
223782 (socket)  
Packaging: Embossed tape with cover  
Designed in: Millimeters  
RoHS: Yes  
Halogen Free: Yes

### Electrical

Voltage (max.): 29.9V AC RMS  
Current (max.): 0.5A per mated contact  
Dielectric Withstanding Voltage: 250V  
Insulation Resistance: 100 Megohms

### Mechanical

Pitch: 4.00mm DP to DP  
2.30mm row to row  
Mated Height: 16.60mm  
Width: 23.00mm  
Length: 34.00mm  
Circuit Size: 32 differential pairs  
Durability (max.): 50 cycles  
Mate Force (max.): 2N per pair  
Wrench Test (max.): 25N  
Screw Torque (max.): 0.65N-m  
Gatherability: 0.60mm

### Physical

Housing: LCP  
Contact: Copper Alloy  
Plating: Contact Area—Gold  
Solder Tail Area—Tin  
Underplating—Nickel  
Operating Temperatures:  
-40 to +85°C