

XCede® HD2

DESIGNED TO ACHIEVE 56G DATA RATE REQUIREMENTS WITH HIGHER DENSITY

While maintaining the same mating interfaces with XCede® HD and XCede® HD Plus, this connector provides developers with a readily available robust solution for tighter card pitches and chassis designs where space requirements and density are critical. These connectors are available in 3-, 4- and 6-Pair configurations.

- Differential pairs 28–84 per inch (11–33 differential pairs per centimeter)
- Modular construction with integrated power and guidance options
- Compliance with the hard metric form factor requirements outlined in EN 61076–4–101:2001
- 90Ω impedance



TARGET MARKETS



FEATURES

- Data rates scalable to 56Gb/s to support system upgrades without costly redesigns
- Compliance with the hard metric form factor requirements outlined in EN 61076–4–101:2001
- Proprietary crosstalk reducing technologies
- 15.7mil drill compliant pin allows deeper backdrilling
- Optimized footprints
- Shielded contacts mate before signal contacts, providing up to a 4mm minimum wipe
- Embedded capacitor available
- Differential pairs 28–84 per inch (11–33 differential pairs per centimeter)

BENEFITS

- Gear practical performance requirements for future data rates while making a significant impact on current systems
- Highest density with 1.80mm pitch
- Proven EMI and signal integrity advantages
- Improved impedance matching
- Complete solution for unique customer requirements
- Enables hot plugging
- Additional margin and overall system cost savings
- Meets high density application requirements

TECHNICAL INFORMATION

MATERIAL

- Contact Finish Area: Gold
- Contact Base Metal: High performance copper alloy
- Housings: Glass reinforced polyester (LCP)

ELECTRICAL PERFORMANCE

- Signal Contact Current Rating: 1A
- Contact Resistance Change: 10mΩ max.
- Dielectric Withstanding Voltage: 750V RMS peak

MECHANICAL PERFORMANCE

- 2mm & 3mm signal wipes available
- Housing Capture: 0.8mm X & 0.61mm Y
- Guide Capture: 2mm X & Y
- Durability: 250 mating cycles

ENVIRONMENTAL

- Operating Temperature Range: -40°C to 105°C

APPROVALS AND CERTIFICATIONS

- UL94 V-0

SPECIFICATIONS

- TB-2343 XCede® HD2 General Product Specification
- TB-2237 XCede® HD Family Routing Guidelines
- TB-2245 XCede® HD Family Backplane Removal and Reinsertion Process
- TB-2252 XCede® HD Family Backplane Installation Process
- TB-2253 XCede® HD Family Daughtercard Wafer Removal and Replacement
- TB-2344 XCede® HD2 Connector Design Guidelines

PACKAGING

- PVC trays (ESD)

TARGET MARKETS/APPLICATIONS



Hubs
Switches
Routers
Wireless Infrastructure



Servers
Networked Storage Systems
Supercomputers