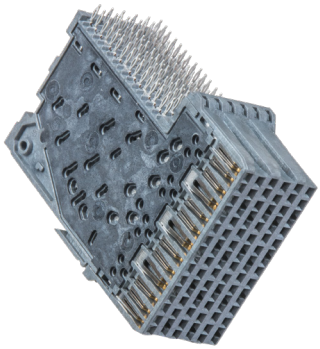
XCede® Backplane Connector

ENABLING FUTURE DATA RATES

While maintaining the same mating interfaces, this connector design provides designers with readily available 85Ω and 100Ω solutions to meet a wide variety of application needs, including Ethernet and PCI.

- Up to 82 differential pairs
- Mechanical longevity and ruggedness
- Guidance and keying options
- 2–, 3–, 4–, 5–, 6–Pair configurations
- Integrated power and guidance



TARGET MARKETS

FEATURES	BENEFITS
▪ Backwards mate compatibility	▪ Scalable upgrades to 56Gb/s without costly redesigns
▪ Up to 82 differential pairs per linear inch	▪ Meets the high density needs of today's designs
▪ Embedded capacitor availability	▪ Additional margin and overall system savings
▪ Derivatives including coplanar and orthogonal configurations	▪ Provides a complete solution for unique requirements
▪ Proprietary crosstalk reducing technologies	▪ Proven EMI and signal integrity advantages

TECHNICAL INFORMATION

MATERIAL

- Housing: Liquid Crystal Polymer
- Contact Base Metal: Copper Alloy
- Plating: Performance-based plating at separable interface; meets requirements of product specification

ELECTRICAL PERFORMANCE

- Signal Current Rating: 1A per contact
- Ground Current Rating: 2A per contact
- Power Current Rating: 6A per contact
- Signal Dielectric withstanding voltage: 600 VAC (RMS)
- Ground Dielectric withstanding voltage: 750 VAC (RMS)
- Mating interface contact resistance change 10mΩ maximum
- Compliant pin to plated through hole resistance 1mΩ maximum
- Insulation resistance 1000MΩ

MECHANICAL PERFORMANCE

- 250 mating cycles
- Signal Contact Mating Force: 0.59N max per contact
- Ground Contact Mating Force: 0.75N max per contact
- Signal Contact Wipe Length: 1.5mm – 3.0mm
- Ground Contact Wipe Length: 3.0mm – 4.0mm
- Compliant Pin Insertion Force: 6lbs – 15lbs per pin
- Compliant Pin Retention Force: 0.8lbs – 2.0lbs per pin

ENVIRONMENTAL

- Maximum non-operating temperature (unmated): 125°C for 24 hours
- Maximum operating temperature: 105°C
- Minimum operating temperature: -40°C
- In accordance with Telcordia GR-1217-CORE & EIA-364 standards

APPROVALS AND CERTIFICATIONS

- UL94-V-0

SPECIFICATIONS

- TB2150 – Product Specification
- TB2211 – Design Guidelines

PACKAGING

- Tray/Tube

TARGET MARKETS/APPLICATIONS

Hubs
Switches
Routers
Optical Transport
Wireless Infrastructure
Test Equipment
Emulation Equipment

Servers
External Storage Systems
Supercomputers

HSBPXCEDE080219LTR