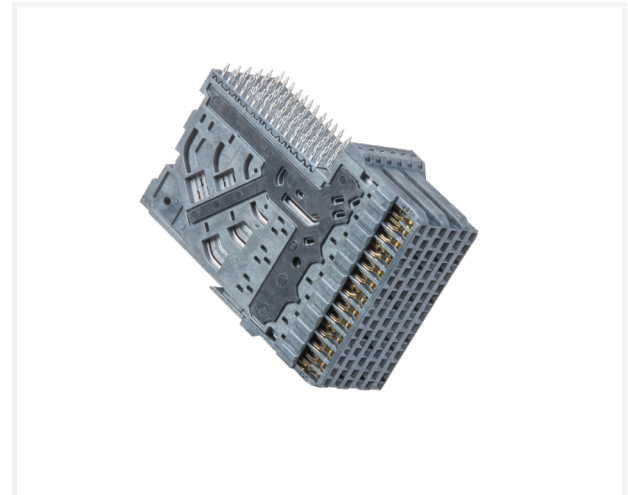


# XCede® Plus Backplane Connector

## DESIGNED TO ACHIEVE 32G DATA RATE REQUIREMENTS

XCede Plus leverages the same core technologies as XCede with improved signal integrity performance while maintaining backwards mating interface compatibility with existing XCede products.

- Up to 82 differential pairs
- Mechanical longevity and ruggedness
- Guidance and keying options
- 4-, 5-, 6-, 8-pair configurations
- Integrated power and guidance



### TARGET MARKETS



### FEATURES

- Backwards mate compatibility
- Up to 82 differential pairs per linear inch
- Embedded capacitor availability
- Derivatives including coplanar and orthogonal configurations
- Proprietary crosstalk reducing technologies
- 17.7mil drill compliant pin allows deeper backdrilling

### BENEFITS

- Scalable upgrades to 56Gb/s without costly redesigns
- Meets the high density needs of today's designs
- Additional margin and overall system savings
- Provides a complete solution for unique requirements
- Proven EMI and signal integrity advantages
- Dual diameter vias enhance the return loss performance

## 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 10m $\Omega$  maximum
- Compliant pin to plated through hole resistance 1m $\Omega$  maximum
- Insulation resistance 1000M $\Omega$

### MECHANICAL PERFORMANCE

- 250 mating cycles
- Signal Contact Mating Force: 0.59N max per contact
- Ground Contact Mating Force: 0.59N 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

- Product Specification – TB2150
- Design Guidelines – TB2211

### PACKAGING

- Tray/Tube

### TARGET MARKETS/APPLICATIONS



Hubs  
Switches  
Routers  
Optical Transport  
Wireless Infrastructure  
Test Equipment  
Emulation Equipment



Servers  
External Storage Systems  
Supercomputers