

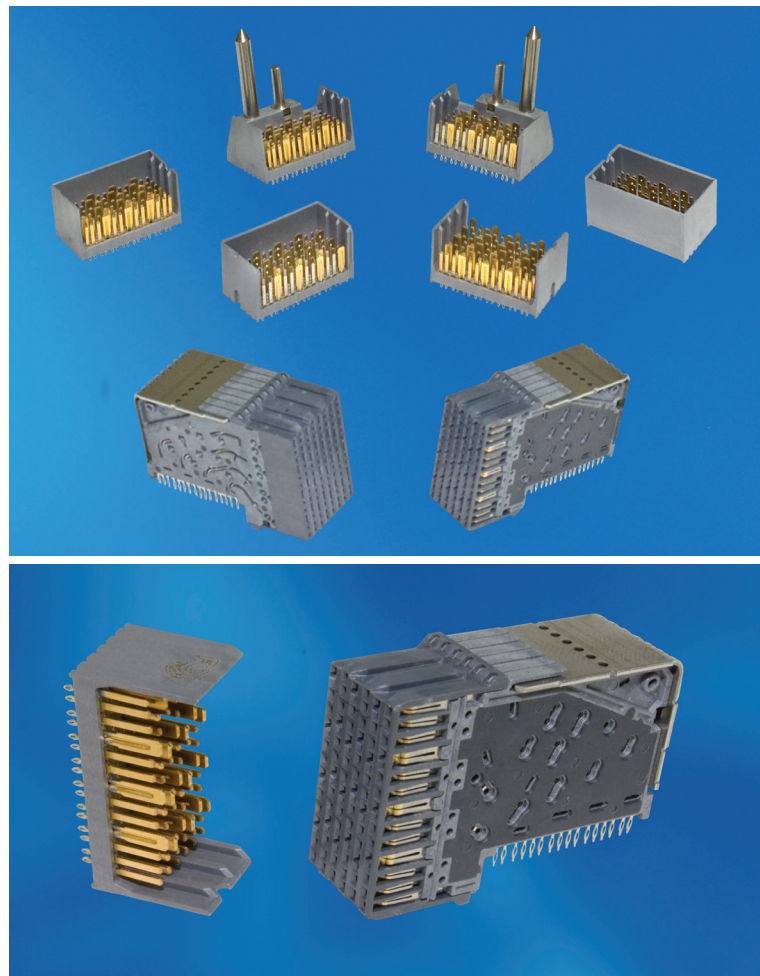
XCede® HIGH-PERFORMANCE BACKPLANE CONNECTOR SYSTEM

DESCRIPTION

FCI's XCede® connector platform is designed for 25 Gb/s performance to provide the headroom to support future high-speed, serial data rate requirements demanded by next-generation equipment in data centers and service provider networks. The use of engineering polymers in a resonance-damping shield enables very low crosstalk across a wide frequency range.

XCede connectors also address requirements for higher linear signal density at the interface of backplane and daughter card. Signal connectors can be configured with 2, 4 or 6 differential pairs per column, providing up to 82.4 differential pairs/inch, suiting architectures with multiple front or rear fabric slots and blade systems with cooling straight through the backplane. Complementary guidance and power modules are also included in the product range. A wafer organizer can be used to combine groups of right-angle signal, guidance and power modules as an integrated daughter-card connector.

The XCede backplane header system provides the ruggedness and long-term reliability required by today's systems. The wide ground contacts feature a stiffness-enhancing rib and are advanced well ahead of the signals for exceptional robustness and signal pin protection.



FEATURES & BENEFITS

- High-speed backplane system designed for 25 Gb/s
- Use of engineering materials in the shield aids in reduction of crosstalk resonances
- 1.85 mm column pitch offers high linear signal density
 - Configurations with 6 differential pairs/column fit 36 mm card slot pitch and provide 82.4 pairs/inch
 - 4 pairs/column fit 25 mm slot pitch with 54.9 pairs/inch
 - 2 pairs/column fit 15 mm slot pitch with 27.5 pairs/inch
- Two ground vias between differential pairs allow elongated antipads to further improve impedance
- Optional short compliant pin permits deeper backdrilling and dual diameter vias to enhance return loss performance
- Wide ground contacts feature a stiffening rib and are advanced well ahead of signals for exceptional robustness and signal pin protection
- Intermateable, electrically and mechanically interchangeable licensed second source to Amphenol TCS

TARGET MARKETS / APPLICATIONS

- Communications
 - Routers
 - Switches
 - Networking
 - Access
 - Transport
 - Wireless
- Data
 - Servers
 - Storage Systems
- Industrial
- Medical
- Test & Measurement

TECHNICAL INFORMATION

MATERIALS

- Contacts: Copper alloy
- Platings:
 - Performance based plating at separable interface (Telecordia GR-1217 CORE Central Office)
 - Tin or tin-lead over nickel on press-fit tails
- Housings: High temperature thermoplastic, UL 94-V0
- Wafer organizer: Stainless steel

MECHANICAL PERFORMANCE

- Mating force: 0.65 N maximum per contact
- Unmating force: 0.15 N minimum per contact
- Press-fit insertion force: 35.6 N maximum per tail

ENVIRONMENTAL

- Telcordia GR-1217-CORE Central Office

SPECIFICATIONS

- Production specification: GS-12-588
- Application specification: GS-20-121

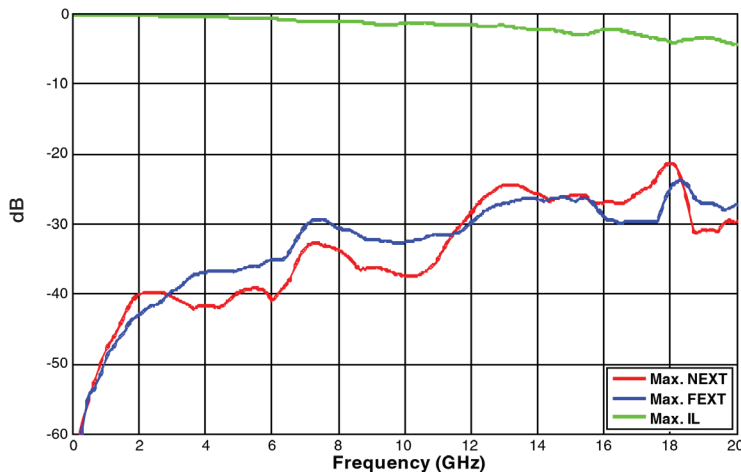
APPROVALS AND CERTIFICATIONS

- UL and CSA approvals

ELECTRICAL PERFORMANCE

- Contact resistance: 10 mΩ maximum change from initial reading after environmental exposure
- Current rating (with ≤ 30 °C temperature rise above ambient):
 - Signal contact: 1 A/contact
 - Wide ground contact: 2 A/contact
 - Power contact: 6 A/blade
- Insertion loss performance: see below
- Crosstalk performance: see below

Maximum Power-Summed Crosstalk & Insertion Loss
(XCede connectors with 4 differential pairs/column)



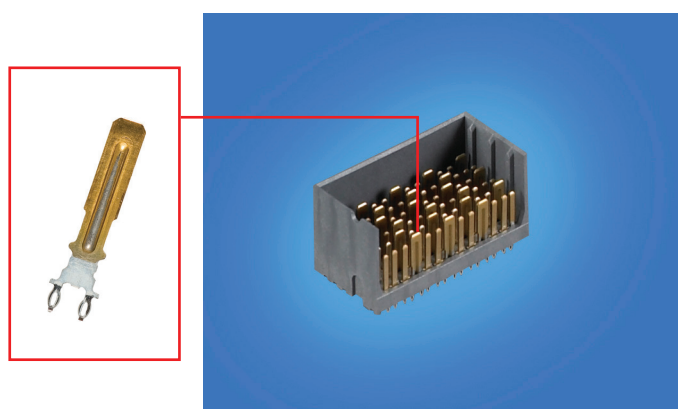
APPLICATIONS



For more information, visit www.fciconnect.com/highspeed or contact XCede@fci.com

ADDITIONAL FEATURES

- In addition to providing individual right-angle receptacle signal modules, customized groupings of right-angle signal, guidance and power modules can be attached to a single wafer organizer to form an integrated daughter card connector.
- The wide ground contacts in the vertical backplane headers feature a stiffening rib that extends near the tip of the contact and are advanced well ahead of the signal contacts for exceptional robustness and signal pin protection.



PART NUMBERS

Lead-free part numbers are listed in the table; tin-lead versions are available upon request. Header part numbers shown provide 2mm signal contact wipe length; versions providing 3mm wipe length are also available.

Module Description	Differential pairs per column	Number of columns	Part Number
Right-angle receptacle	4	4	10091844-101LF
Vertical header with 2 side walls	4	4	10091836-00J-10DLF
Vertical header with 3 walls including right end wall	4	4	10091836-M0J-10DLF
Vertical header with 3 walls including left end wall	4	4	10091836-L0J-10DLF
Vertical header with 4 walls	4	4	10091836-10J-10DLF
Vertical header with 3 walls, left guide & key opening	4	4	10091836-J0J-10DLF
Vertical header with 3 walls, right guide & key opening	4	4	10091836-Y0J-10DLF
Right-angle receptacle	4	6	10091799-101LF
Vertical header with 2 side walls	4	6	10091767-00C-10DLF
Vertical header with 3 walls including right end wall	4	6	10091767-M0C-10DLF
Vertical header with 3 walls including left end wall	4	6	10091767-L0C-10DLF
Vertical header with 4 walls	4	6	10091767-10C10DLF
Vertical header with 3 walls, left guide & key opening	4	6	10091767-J0C-10DLF
Vertical header with 3 walls, right guide & key opening	4	6	10091767-Y0C-10DLF
Right-angle receptacle	4	8	10091812-101LF
Vertical header with 2 side walls	4	8	10091777-00E-10DLF
Vertical header with 3 walls including right end wall	4	8	10091777-M0E-10DLF
Vertical header with 3 walls including left end wall	4	8	10091777-L0E-10DLF
Vertical header with 4 walls	4	8	10091777-10E10DLF
Vertical header with 3 walls, left guide & key opening	4	8	10091777-J0E-10DLF
Vertical header with 3 walls, right guide & key opening	4	8	10091777-Y0E-10DLF

For more information, visit www.fciconnect.com/highspeed or contact XCede@fci.com



TECHNICAL INFORMATION

PART NUMBERS

Lead-free part numbers are listed in the table; tin-lead versions are available upon request. Header part numbers shown provide 2mm signal contact wipe length; versions providing 3mm wipe length are also available.

Module Description	Differential pairs per column	Number of columns	Part Number
Vertical header with 2 side walls	2	4	10114868-00J-10DLF
Vertical header with 3 walls including right end wall	2	4	10114868-M0J-10DLF
Vertical header with 3 walls including left end wall	2	4	10114868-L0J-10DLF
Vertical header with 4 walls	2	4	10114868-10J-10DLF
Vertical header with 3 walls, left guide & key opening	2	4	10114868-J0J-10DLF
Vertical header with 3 walls, right guide & key opening	2	4	10114868-Y0J-10DLF
Vertical header with 2 side walls	2	6	10113947-00C-10DLF
Vertical header with 3 walls including right end wall	2	6	10113947-M0C-10DLF
Vertical header with 3 walls including left end wall	2	6	10113947-L0C-10DLF
Vertical header with 4 walls	2	6	10113947-10C10DLF
Vertical header with 3 walls, left guide & key opening	2	6	10113947-J0C-10DLF
Vertical header with 3 walls, right guide & key opening	2	6	10113947-Y0C-10DLF
Vertical header with 2 side walls	2	8	10113949-00E-10DLF
Vertical header with 3 walls including right end wall	2	8	10113949-M0E-10DLF
Vertical header with 3 walls including left end wall	2	8	10113949-L0E-10DLF
Vertical header with 4 walls	2	8	10113949-10E10DLF
Vertical header with 3 walls, left guide & key opening	2	8	10113949-J0E-10DLF
Vertical header with 3 walls, right guide & key opening	2	8	10113949-Y0E-10DLF
Vertical header with 2 side walls	6	4	10114508-00J-10DLF
Vertical header with 3 walls including right end wall	6	4	10114508-M0J-10DLF
Vertical header with 3 walls including left end wall	6	4	10114508-L0J-10DLF
Vertical header with 4 walls	6	4	10114508-10J-10DLF
Vertical header with 3 walls, left guide & key opening	6	4	10114508-J0J-10DLF
Vertical header with 3 walls, right guide & key opening	6	4	10114508-Y0J-10DLF
Vertical header with 2 side walls	6	6	10104997-00C-10DLF
Vertical header with 3 walls including right end wall	6	6	10104997-M0C-10DLF
Vertical header with 3 walls including left end wall	6	6	10104997-L0C-10DLF
Vertical header with 4 walls	6	6	10104997-10C10DLF
Vertical header with 3 walls, left guide & key opening	6	6	10104997-J0C-10DLF
Vertical header with 3 walls, right guide & key opening	6	6	10104997-Y0C-10DLF
Vertical header with 2 side walls	6	8	10104999-00E-10DLF
Vertical header with 3 walls including right end wall	6	8	10104999-M0E-10DLF
Vertical header with 3 walls including left end wall	6	8	10104999-L0E-10DLF
Vertical header with 4 walls	6	8	10104999-10E10DLF
Vertical header with 3 walls, left guide & key opening	6	8	10104999-J0E-10DLF
Vertical header with 3 walls, right guide & key opening	6	8	10104999-Y0E-10DLF

For more information, visit www.fciconnect.com/highspeed or contact XCede@fci.com

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype [ameyasales1](#) [ameyasales2](#)

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com