



ELECTRONICS

High Speed & Power Selector



AIRMAX VS	FEATURES & BENEFITS	WHERE TO USE
www.fci.com/airmex	 A full set of building blocks for backplane, coplanar, mezzanine, and cable-to-board applica tions in Hard Metric building practices Innovative edge-coupling technology and air dielectric between adjacent conductors deliver lowest insertion loss and crosstalk High-speed serial data rates can scale from 2.5 Gb/s to data rates up to 12.5 Gb/s without requiring redesign of a basic platform Opposed dual-beam receptacle contact structure provides high reliability Contains no interleaving shields reducing connec tor weight, cost and PCB routing complexity. Lead-free and RoHS-compatible options are available 	 With AirMax VS® connector system, FCI gives back plane system designers the freedom to rethink the way products are designed. Based on a radical design concept AirMax VS® (Virtual Shield) connectors eliminate the need for interleaving ground shields by using air as highly efficient dielectric Servers, Storage IP router, switches & gateways Enterprise routers Base stations ATCA™ zone 3 Medical and test equipment
METRAL HS	FEATURES & BENEFITS	WHERE TO USE
www.fci.com/metral	 Shielded strip-line transmission structure in both header and receptacle Performance in accordance with Telcordia CO Three Metral High speed series are plug-compatible; cost effective selection Stackable end-to-end with other FCI Metral products Dual-beam Receptacle contacts Metral 4000: Contact geometry optimized for 100 Ohm differential pairs Metral 4000: Less than 5% multi-line active NEXT@100 ps (10-90%) rise time in differential applications Metral 4000: Less than 1.0dB insertion loss at 5Gb/sec 	Communications Transmission • Access • Switches • Routers Data • Servers • Storage Enclosures Industrial, Instrumentation and Medical • Rack based Systems Selection Table 1000 series Header Header 1000 series Receptacle 622 Mb/s 1.25 Gb/s 2.5 Gb/s 4000 series Receptacle 1.25 Gb/s 2.5 Gb/s
ZIPLINE Vieww.fci.com/zipline	 FEATURES & BENEFITS Supports backplane and orthogonal midplane applications 72 differential pairs on 1.85 mm column pitch delivering 84.6 differential pairs per inch of card edge while allowing a minimum 25.0 mm card slot pitch Highest signal density available at data rates up to 12.5 Gb/s Uses AirMax VS® edge-coupling technology to deliver low insertion loss and crosstalk Allows for a mixed differential (orthogonal or back plane), single-edge or power pin assignments within a connector 	 WHERE TO USE The Zipline[™] connector system addresses customer demands for Maximum signal density – a paramount requirement for future equipment platforms requiring data rates up to 12.5 Gb/s. Servers Storage IP router Switches & Gateways Base stations
GIG-ARRAY	FEATURES & BENEFITS	WHERE TO USE
	 Ball Grid Array (BGA) termination for process friendly attachment Stack Heights of 15 mm - 40 mm Demonstrated solder joint reliability of greater than 22 years (IPC-SM-785) 1mm x 0.65mm BGA grid optimizes routing and electrical performance 	 The GIG-ARRAY® connector is designed to meet the nee of up to 10Gb/s applications requiring up to 296 signal pi per connector. FCI's long tradition as a BGA connector in novator assures expertise and reliability in the GIG-ARRAY® BGA design. Transmissions, access, switches, networking

MEZZANINE

- 100 Ohm differential pair matched impedance assures consistent high speed performance
- 10 Gb/s differential pair performance supports
- high speed data rates Polarized design assures proper mating of the connector

FEATURES & BENEFITS

friendly attachment

MEG-ARRAY

www.fci.com/megarray

www.fci.com/gigarray

and electrical performance

Bandwidth of 5Ghz (10Gb/s) for differential pairs Demonstrated solder joint reliability of greater than 22 year (IPC-SM-785)

Ball Grid Array (BGA) termination for process

1.27mm x 1.27mm BGA grid optimizes routing

Stack Heights of 4 mm to 14 mm

Meets Telcordia GR-1217-CORE and NPS-25298-2 specifications for utilization in telecom applications

- Servers, storage
- Industrial controls & equipment



WHERE TO USE

- The MEG-Array® connector is designed to meet the needs of 10Gb/s applications requiring up to 528 signal pins per connector. The combination of multiple stack heights (4mm to 14mm) and multiple sizes (81 signals to 528 signals) allows for optimal design flexibility while yielding less than 1% cross-talk performance when configured differentially.
 - Transmissions, access, switches, optics, networking
 - Servers, storage
 - Industrial controls & equipment Analytical & diagnostic
 - Medical



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