

AIRMAX VS® HIGH-SPEED CONNECTORS

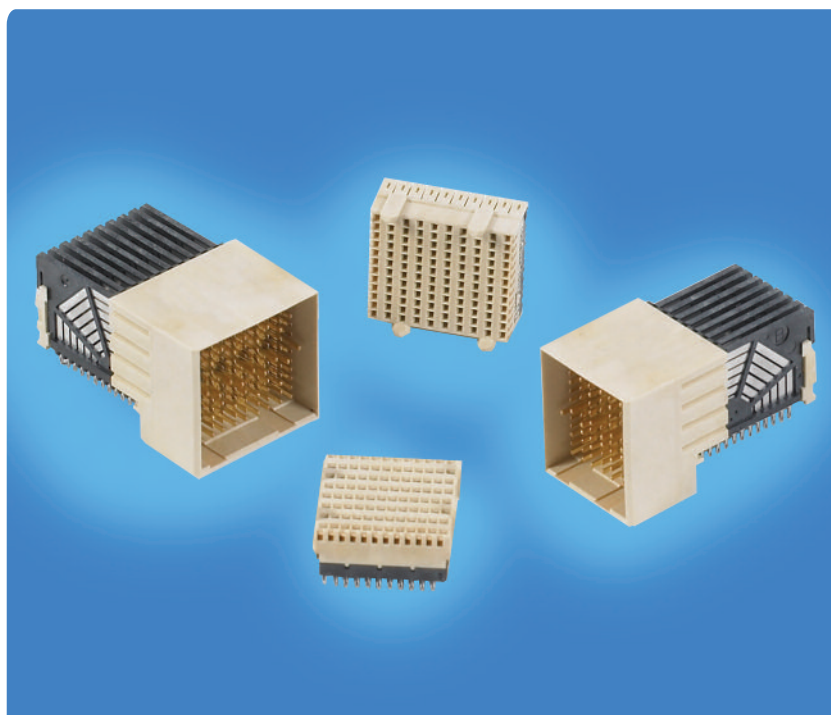
For Server System Infrastructure (SSI) Modular Blade Server Platforms

DESCRIPTION

The Server System Infrastructure (SSI) Blade Specifications define mechanical, electrical, and management interfaces for blade server platforms to ensure compatibility and interoperability among compute blade modules, compute blade mezzanine modules, chassis management modules, and midplanes or backplanes from a variety of independent vendors.

AirMax VS® high-speed signal connectors, guide modules, and power connectors serve to connect compute blade modules, compute blade mezzanine modules, or chassis management modules to a midplane or backplane in a SSI modular blade server chassis. The high-speed interconnect channels support industry-standard technologies such as PCI Express® Gen 2, Infiniband® QDR, 8 Gb/s Fibre Channel and IEEE802.3ap*-2007 "Backplane Ethernet" (1000BASE-KX, 10GBASE-KX4 and 10GBASE-KR).

From its BergStak® 0.8mm product range, FCI can also provide equivalent connectors for the primary and optional expansion interfaces between a compute blade and an optional mezzanine card when an additional high-speed I/O fabric connection to the midplane is needed. The mezzanine connection to the compute blade can support x16, x8, x4, and x1 PCI Express connections.



FEATURES & BENEFITS

- SSI Modular Blade Specifications ensure compatibility and interoperability among compliant modules and midplanes
- AirMax VS 96-position signal modules enable high-speed connections between the Compute Blade and Mezzanine modules and midplane
- AirMax VS 120-position signal modules enable connections between the Chassis Management Module and midplane
- Signal connectors deliver low insertion loss and crosstalk
- High-speed serial data rates can scale to 12.5 Gb/s
- Opposed dual-beam receptacle contact structure provides high reliability
- Compact 2x2 power connectors provide capacity for up to 20A/contact
- Rugged guide modules assure proper alignment
- Compatible with Hard Metric design practice

TARGET MARKETS / APPLICATIONS

- Server System Infrastructure (SSI) Modular Blade Server Platforms
 - Compute Blade Module
 - Mezzanine Module
 - Chassis Management Module (CMM)
 - Midplane
 - Chassis

* Product names are trademarks of their respective owners

TECHNICAL INFORMATION

PRODUCT SPECIFICATIONS

- GS-12-239 Press-fit signal connectors
- GS-12-220 Press-fit, high-power connectors

APPLICATION SPECIFICATIONS

- GS-20-035 Press-fit signal connectors
- GS-20-023 Press-fit, high-power connectors
- GS-20-045 Hard-metric guide connectors

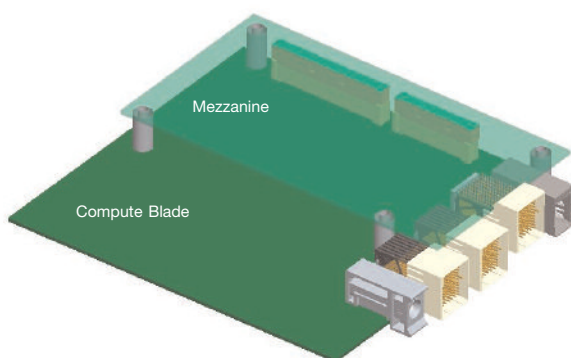
INDUSTRY SPECIFICATIONS

- Server Systems Infrastructure (SSI) Blade Specifications (www.ssiforum.org)
 - SSI Compute Blade Specification
 - SSI Compute Blade Mezzanine Specification
 - SSI Chassis Management Module Specification
 - SSI Ethernet Midplane Design Guide
- Telcordia GR-1217-CORE, Central Office

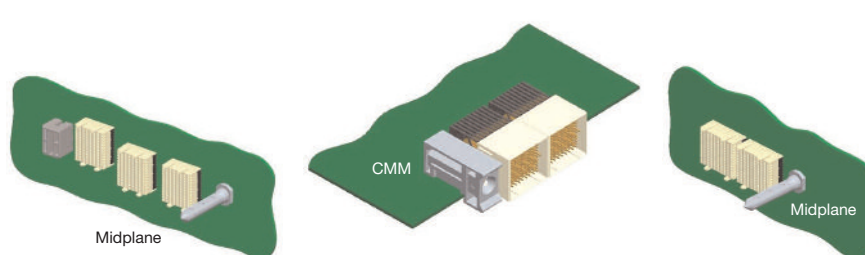
APPLICATION EXAMPLES

- The SSI Compute Blade, Compute Blade Mezzanine, and Chassis Management Module (CMM) connector applications are described below.

Compute Blade with Mezzanine



Chassis Management Module



PART NUMBERS

Compute Blade and Midplane Interface

AirMax VS° 2mm, 4-pair, 96-position signal module
 AirMax VS° 2mm, 4-pair, 96-position signal module
 (2nd optional signal module)
 AirMax VS° guide module without ESD clip
 AirMax VS° 2x2 power module

Compute Blade

10084604-111LF
 10084604-111LF
 10084609-111LF
 10084603-001LF

Midplane

10084605-101LF
 10084605-101LF
 10084610-101LF
 10084602-4554P00LF

Mezzanine and Midplane Interface

AirMax VS° 2mm, 4-pair, 96-position signal module

Compute Blade

10084604-111LF

Midplane

10084605-101LF

Chassis Management Module (CMM) and Midplane Interface

AirMax VS° 2mm, 4-pair, 120-position signal module
 AirMax VS° 2mm, 4-pair, 120-position signal module
 AirMax VS° guide module without ESD clip

CMM

10084600-111LF
 10084600-111LF
 10084609-111LF

Midplane

10084601-101LF
 10084601-101LF
 10084610-101LF

Compute Blade and Mezzanine Interface

BergStak° 0.8mm, 120-position, 16mm connector
 BergStak° 0.8mm, 80-position, 16mm connector
 (optional expansion connector)

Compute Blade (receptacle)

61082-123402LF or
 61082-123400LF
 61082-083402LF or
 61082-083400LF

Mezzanine (plug)

61083-124402LF or
 61083-124400LF
 61083-084402LF or
 61083-084400LF

Use web links www.fci.com/airmax or www.fci.com/bergstak to obtain product drawings, models, specifications and additional technical information.