

► **COMMUNICATIONS, DATA, CONSUMER DIVISION**

AirMax VS®

High Speed Connector System

FCI: SETTING THE STANDARD FOR CONNECTORS

With operations in 30 countries, FCI is a leading manufacturer of connectors.

Our 13,500 employees are committed to providing customers with high-quality, innovative products for a wide range of consumer and industrial applications.

AIRMAX VS® HIGH SPEED CONNECTOR SYSTEM

SHIELDLESS CONNECTORS

- The AirMax VS® connector is a revolutionary connector system that offers scalability, flexibility, high density and headroom in performance. "VS" stands for Virtual Shield as this technology requires no interleaving shields.
- The elimination of these shields results in lower cost, lower weight and offers greater flexibility.

The main target markets & applications for AirMax VS® connectors are:

DATA

- High end servers
- Mid range servers
- Entry servers
- Storage devices



COMMUNICATIONS

- IP routers
- IP Switches & gateways
- ATM switches
- IP PBX's
- High speed enterprise routers
- 3G Base stations
- ATCAT™ Zone 3



INDUSTRIAL

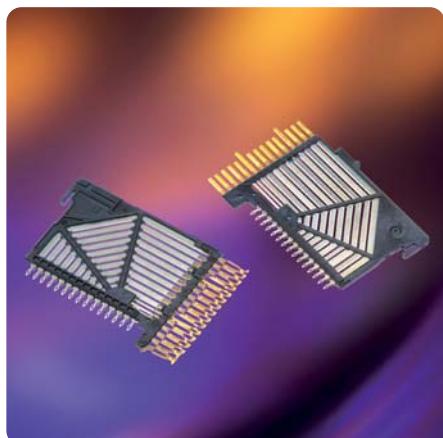
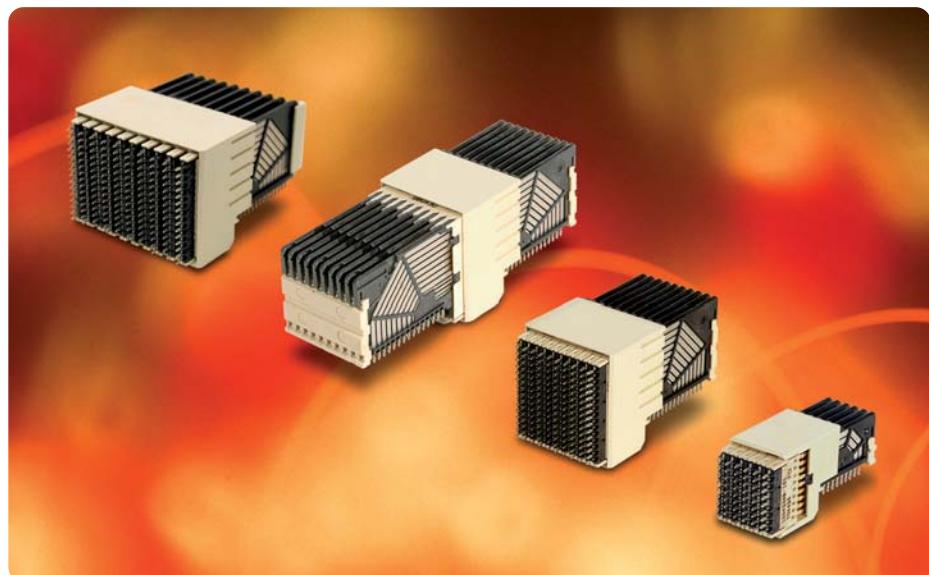
- Medical
- Test & measurement

SCALEABILITY

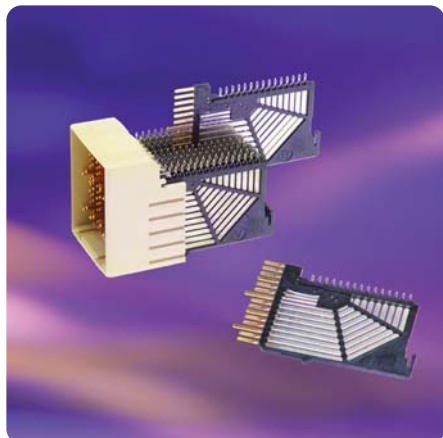
► The basic building block of an airmax connector is an IMLA (Insert Molded Leadframe Assembly) and modules can consist of a number of these IMLA's. AirMax VS® connectors are scaleable to the number of columns (or IMLA's).

By developing housings dedicated to certain IMLA-counts, various module sizes can be offered. Even IMLA counts per module are recommended in order to enjoy the very low cross talk performance, even when multiple modules are stacked.

► FCI has IMLA's available in 15 position, 12 position and 9 position.



AirMax VS® 5 pair IMLA



FLEXIBILITY

► The IMLA design offers maximum flexibility by its "open pin field" structure. Each of the pins in an IMLA can be assigned as per what the application dictates. In some applications, both single ended & differential pair signals are combined with power within the same AirMax VS® module. A 15 position IMLA accommodates 5 differential pairs, whereas a 12 position IMLA supports 4 differential pairs and a 9 position IMLA 3 differential pairs.

count of a PCB by providing the possibility to route multiple traces onto a single layer.

LOW COST

► In some applications, opening the IMLA spacing up from 2 mm to 3 mm by using a dedicated housing, resulted in a significant layer count reduction of the PCB because multiple differential pairs can be routed onto the same layer. The fact that AirMax VS® does not contain shields (VS = Virtual Shield) generally speaking results in less (ground) vias in a back plane, which offers another opportunity for cost reduction.

HIGH DENSITY

► When compared to other high speed connector offerings, AirMax VS® connectors offer the highest pin density, at a given plug in unit pitch in a system. For example, within a 25 mm card pitch, a 5 pair 2 mm AirMax VS® module provides 75 pins (or 25 differential pairs) per linear centimeter. If routing density is more important than pin density, modules with IMLA's on a 3 mm spacing are available to help reducing the layer

AIRMAX VS® QUICK SELECTOR GUIDE

| # Contacts per module | # Differential pairs per module | Nominal Plug In Unit pitch [mm] | Contact pitch (columns) | Header Drawing Number | Receptacle Drawing Number |
|-----------------------|---------------------------------|---------------------------------|-------------------------|-----------------------|---------------------------|
|-----------------------|---------------------------------|---------------------------------|-------------------------|-----------------------|---------------------------|

APPLICATION: BACK PANEL, GENDER: RIGHT ANGLE HEADER, VERTICAL RECEPTACLE

| | | | | | | |
|---------------------|-----|----|----|------|---------------------|----------|
| AirMax VS® "5 pair" | 150 | 50 | 25 | 2 mm | 10025613 / 10016527 | 10016537 |
| | 150 | 50 | 25 | 3 mm | 10037324 / 10037323 | 10035146 |
| | 120 | 40 | 25 | 2 mm | 10041460 / 10041746 | 10040993 |
| AirMax VS® "4 pair" | 120 | 40 | 20 | 2 mm | 10028436 / 10029391 | 10028264 |
| | 120 | 40 | 20 | 3 mm | 10035515 / 10035514 | 10035465 |
| | 96 | 32 | 20 | 2 mm | 10052838 / 10052837 | 10052842 |
| | 72 | 24 | 20 | 2 mm | 10052825 / 10052824 | 10052829 |
| AirMax VS® "3 pair" | 90 | 30 | 17 | 2 mm | 10034249 / 10034264 | 10034251 |
| | 72 | 24 | 17 | 2 mm | 10045267 / 10045266 | 10045271 |
| | 54 | 18 | 17 | 2 mm | 10039851 / 10040862 | 10043546 |

APPLICATION: BACK PANEL, GENDER: RIGHT ANGLE RECEPTACLE, VERTICAL HEADER

| | | | | | | |
|---------------------|-----|----|----|------|----------|----------|
| AirMax VS® "5 pair" | 150 | 50 | 25 | 2 mm | 10056098 | 10034475 |
| | 120 | 40 | 20 | 2 mm | 10056100 | 10035754 |
| AirMax VS® "4 pair" | 120 | 40 | 20 | 3 mm | 10056430 | 10045722 |
| | 90 | 30 | 17 | 2 mm | 10056103 | 10056335 |
| AirMax VS® "3 pair" | 54 | 18 | 17 | 2 mm | 10056101 | 10053656 |

APPLICATION: COPLANAR, RIGHT ANGLE RECEPTACLE TO RIGHT ANGLE HEADER

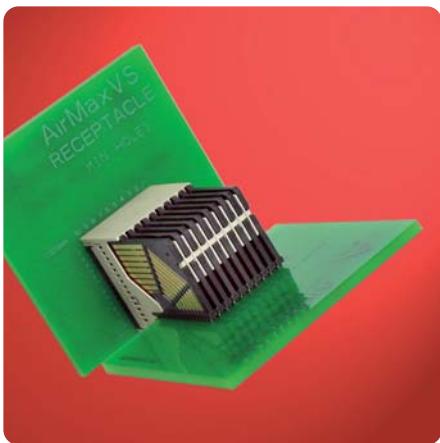
| | | | | | | |
|---------------------|-----|----|----|------|---------------------|----------|
| AirMax VS® "5 pair" | 150 | 50 | 25 | 2 mm | 10025613/10016527 | 10034475 |
| | 150 | 50 | 25 | 3 mm | 10037324 / 10037323 | 10057041 |
| AirMax VS® "4 pair" | 120 | 40 | 20 | 2 mm | 10028436 / 10029391 | 10035754 |
| | 120 | 40 | 20 | 3 mm | 10035515 / 10035514 | 10045722 |
| AirMax VS® "3 pair" | 90 | 30 | 17 | 2 mm | 10034249 / 10034264 | 10056335 |
| | 54 | 18 | 17 | 2 mm | 10039851 / 10040862 | 10053656 |

APPLICATION: MEZZANINE, VERTICAL RECEPTACLE TO VERTICAL HEADER

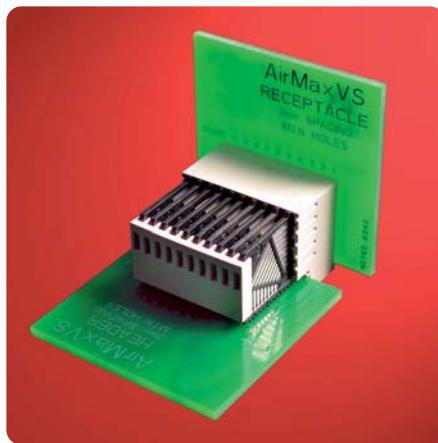
| | | | | | | |
|---------------------|-----|----|------|------|----------|----------|
| AirMax VS® "5 pair" | 150 | 50 | 12,5 | 2 mm | 10056098 | 10016537 |
| | 150 | 50 | 26 | 2 mm | 10056246 | 10016537 |
| AirMax VS® "4 pair" | 120 | 40 | 12,5 | 2 mm | 10056100 | 10028264 |
| | 120 | 40 | 12,5 | 3 mm | 10056430 | 10035465 |
| AirMax VS® "3 pair" | 90 | 30 | 12,5 | 2 mm | 10056103 | 10034251 |
| | 54 | 18 | 12,5 | 2 mm | 10056101 | 10043546 |

APPLICATION: FRONT IO AND REAR PLUG UP

| | | | | | | |
|---------------------|-----|----|----|------|----------------------|----|
| AirMax VS® "4 pair" | 120 | 40 | 25 | 2 mm | 10041268 vertical | na |
| | 96 | 32 | 25 | 2 mm | 10061399 right angle | na |
| | 72 | 24 | 25 | 3 mm | 10062319 right angle | na |



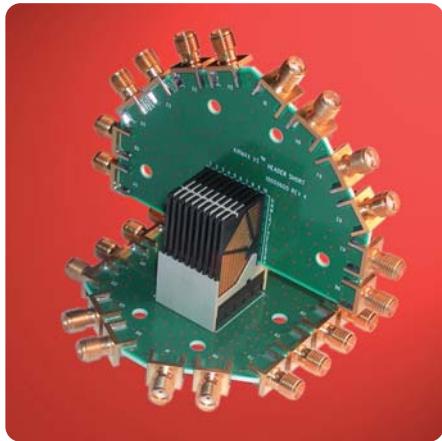
AirMax VS® 2 mm pitch



AirMax VS® 3 mm pitch

AIRMAX VS® FACT SHEET

| | |
|-------------------|--|
| 2003-10-01 | FCI Delivers Industry's First Shieldless High-Speed Connector, Operating at 2.5 Gb/s to Greater than 12 Gb/s (AirMax VS® Connector System) |
| 2004-01-01 | FCI and TFT demonstrate passive equalization applied in AirMax VS® connectors |
| 2004-01-19 | FCI licenses AirMax VS® technology to GORE |
| 2004-01-29 | FCI to Showcase the AirMax VS® Connector System at DesignCon 2004 |
| 2004-05-01 | <u>FCI and Accelerant demonstrate a 40 Gb back plane design with AirMax VS® connectors</u> <u>FCI and EIT demonstrate optimized routing on next generation back planes with AirMax VS® connectors</u> <u>FCI and Marvell demonstrate 2.5 Gb/s transmission links using AirMax VS® and MEG Array® connectors</u> <u>FCI and MAXIM demonstrate 10 Gb/s transmission links using AirMax VS® connectors</u> <u>FCI and Mitsubishi Electric demonstrate 10 Gb/s back plane with AirMax VS® connectors</u> |
| 2004-05-04 | FCI adds 3 mm pitch AirMax VS® modules to its offering |
| 2004-07-13 | FCI Signs Amphenol as Second Source for AirMax VS® Connector System |
| 2005-01-01 | <u>FCI and Xilinx demonstrate 10 Gb/s NRZ transmission links using AirMax VS® connectors</u> <u>Lucent Technologies' BELL LABS and FCI demonstrate 25Gb/s data transmission over electrical back plane connectors (AirMax VS® Back Panel Connectors)</u> |
| 2005-01-31 | <u>FCI demonstrates BGA technology used with AirMax VS® connectors</u> <u>FCI adds coplanar capability to AirMax VS® product portfolio</u> |
| 2005-02-01 | FCI's AirMax VS® connector system honored at DesignCon 2005 and wins Design Vision Award 2005 |
| 2005-05-03 | FCI adds low profile (3 pair) AirMax VS® Back Panel Connectors to its offering |
| 2005-05-27 | FCI announces the availability of AirMax VS® power modules |
| 2005-08-24 | AirMax VS® vertical headers added to the product offering |
| 2005-08-25 | FCI announces RoHS qualification of its AirMax VS® signal modules |
| 2005-10-24 | <u>FCI AirMax VS® product offering expanded with dedicated mezzanine offering</u> <u>FCI's AirMax VS® Connector System and Northrop Grumman ATCA™ topology design reaches 10Gb/s</u> |
| 2005-11-08 | FCI's AirMax VS® power modules now include coplanar capability |
| 2005-12-15 | Huawei and FCI announce 12.5Gb/s ATCA® Reference Design that exhibits very low crosstalk |
| 2005-12-31 | FCI's AirMax VS® coplanar system awarded Product of the Year (Electronic Products) |



WORST-CASE NEAR-END CROSSTALK AIRMAX VS® HIGH SPEED CONNECTOR SYSTEMS WIRED FOR DIFFERENTIAL (Signal injected into HEADER Side)

| | 55ps (20-80%) 80ps (10-90%) | 105ps (20-80%) 150 ps (10-90%) | 150ps (20-80%) 220 ps (10-90%) |
|-----------|--------------------------------|-----------------------------------|-----------------------------------|
| AB | 1.5% | 1.1% | 0.9% |
| BC | 2.0% | 1.5% | 1.2% |
| DE | 1.8% | 1.4% | 1.2% |
| EF | 1.9% | 1.5% | 1.3% |
| GH | 2.0% | 1.5% | 1.2% |
| HI | 1.8% | 1.6% | 1.3% |
| JK | 2.1% | 1.9% | 1.6% |
| KL | 1.8% | 1.6% | 1.5% |
| MN | 1.9% | 1.6% | 1.4% |
| NO | 1.1% | 0.9% | 0.8% |

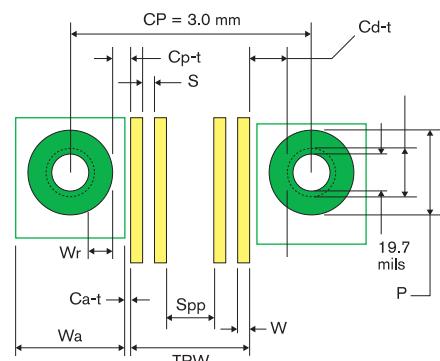
HEADROOM IN PERFORMANCE

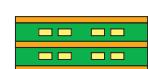
Today's high end communication equipment that is commercially available, operates at line speeds in the back plane ranging from 1.25 Gb/s up to 6.25 Gb/s. With AirMax VS® connectors, a complete platform redesign is not required when a system gets upgraded to higher line speeds, as AirMax VS® connectors have been demonstrated in transmission links of 1.25 Gb/s up to 25 Gb/s.

TRACE ROUTING EXAMPLE

| | LAYOUT | |
|-------------------------|-------------|-----------------|
| | mil | um |
| Column pitch | CP | 118,0 2997 |
| Trace | W | 8,0 203 |
| Space | S | 8,0 203 |
| Pair-Pair spacing | Spp | 18,0 457 |
| Pad | P | 36,0 914 |
| Antipad | Wa | 48,0 1219 |
| Total Routing Width | TRW | 66,0 1676 |
| Annular Ring | Wr | 8,2 207 |
| Clearance Drill -Trace | Cd-t | 14,2 361 |
| Clearance Pad-Trace | Cp-t | 8,0 203 |
| Clearance Antipad-Trace | Ca-t | 2,0 51 |

Design Flexibility reduces applied cost



 Two differential pairs per routing channel (only 2 high speed signal layers required to route 4 differential pairs)

AIRMAX VS® HIGH SPEED CONNECTOR SYSTEM

A FULL SET OF BUILDING BLOCKS

The AirMax VS® technology can be applied in a variety of connector modules, including right-angle & vertical receptacles as well as the mating headers (right-angle & vertical). Combining these modules allows for a variety of applications, including back panel, co-planar, mezzanine and cable to board.



FEATURES

- Shield less connector system
- High pin density per module
- Designed to fit HM (hard metric) building practice
- No pre-assigned ground pins
- Full product family support
- Various module sizes available
- Excellent electrical performance
- Versatile IMLA design (Insert Molded Lead frame Assembly)
- Low weight and low mating forces
- Opposed dual team contact system

BENEFITS

- Allows for improved pcb routing density, so less layers required in the pcb
- Allows for multiple IMLA-counts and - spacings for optimized board real estate consumption and trace routing
- Allows for custom pin assignment (signal, power, differential or single ended)
- Head room in electrical performance (25 Gb/s demonstrated)
- No redesign of basic platform required: saves time to market
- Less ground vias required when compared to connectors with shields
- Provides high reliability
- Vertical & horizontal routing within same slot possible

BACK PANEL RECEPTACLE

KEY FEATURES

- Right-angle header and vertical receptacle
- No pins on back panel
- Future extension with BGA receptacle
- Same right-angle header can be used in co-planar application

BACK PANEL HEADER

KEY FEATURES

- Right-angle receptacle and vertical header
- Pins on back panel
- Robust receptacle design
- Protective cap on header also serves as press in block

CO-PLANAR

KEY FEATURES

- Same right-angle header and right-angle receptacle as used in back panel application
- Robust receptacle design

MEZZANINE

KEY FEATURES

- Vertical header and vertical receptacle
- Header supports various stack heights (12.5-30 mm)
- Protective cap on header also serves as press in block
- Same receptacle can be used in back plane application

CABLE TO BOARD

KEY FEATURES

- Vertical header and terminal block
- Passive latch with active latch option
- Custom cable assemblies
- Right-angle header for front I/O applications are planned

AIRMAX VS®

BACK PANEL - RECEPTACLE



FEATURES

For back panel applications the AirMax VS® product family offers both genders. Vertical receptacles eliminating the risk of having bend pins on the back plane can be combined with the right-angle headers on the daughter boards. At very high pin counts a reduction of weight of the back panel assembly can become significant.

MAIN PRODUCTS

Right-angle headers 5 pair

| | | |
|--------------|------------------------|----------|
| 150 pos 2 mm | 10 IMLA with end walls | 10025613 |
| 150 pos 2 mm | 10 IMLA | 10016527 |
| 150 pos 3 mm | 10 IMLA with end walls | 10037324 |
| 150 pos 3 mm | 10 IMLA | 10037323 |
| 120 pos 2 mm | 8 IMLA with end walls | 10041460 |
| 120 pos 2 mm | 8 IMLA | 10041746 |

Vertical receptacle 5 pair

| | | |
|--------------|---------|----------|
| 150 pos 2 mm | 10 IMLA | 10016537 |
| 150 pos 3 mm | 10 IMLA | 10035146 |
| 120 pos 2 mm | 8 IMLA | 10040993 |

Right-angle headers 4 pair

| | | |
|--------------|------------------------|----------|
| 120 pos 3 mm | 10 IMLA with end walls | 10035515 |
| 120 pos 3 mm | 10 IMLA | 10035514 |
| 120 pos 2 mm | 10 IMLA with end walls | 10028436 |
| 120 pos 2 mm | 10 IMLA | 10029391 |
| 96 pos 2 mm | 8 IMLA with end walls | 10052838 |
| 96 pos 2 mm | 8 IMLA | 10052837 |
| 72 pos 2 mm | 6 IMLA with end walls | 10052825 |
| 72 pos 2 mm | 6 IMLA | 10052824 |

Vertical receptacle 4 pair

| | | |
|--------------|---------|----------|
| 120 pos 3 mm | 10 IMLA | 10035465 |
| 120 pos 2 mm | 10 IMLA | 10028264 |
| 96 pos 2 mm | 8 IMLA | 10052842 |
| 72 pos 2 mm | 6 IMLA | 10052829 |

Right-angle headers 3 pair

| | | |
|-------------|------------------------|----------|
| 90 pos 2 mm | 10 IMLA with end walls | 10034249 |
| 90 pos 2 mm | 10 IMLA | 10034264 |
| 72 pos 2 mm | 8 IMLA with end walls | 10045267 |
| 72 pos 2 mm | 8 IMLA | 10045266 |
| 54 pos 2 mm | 6 IMLA with end walls | 10039851 |
| 54 pos 2 mm | 6 IMLA | 10040862 |

Vertical receptacle 3 pair

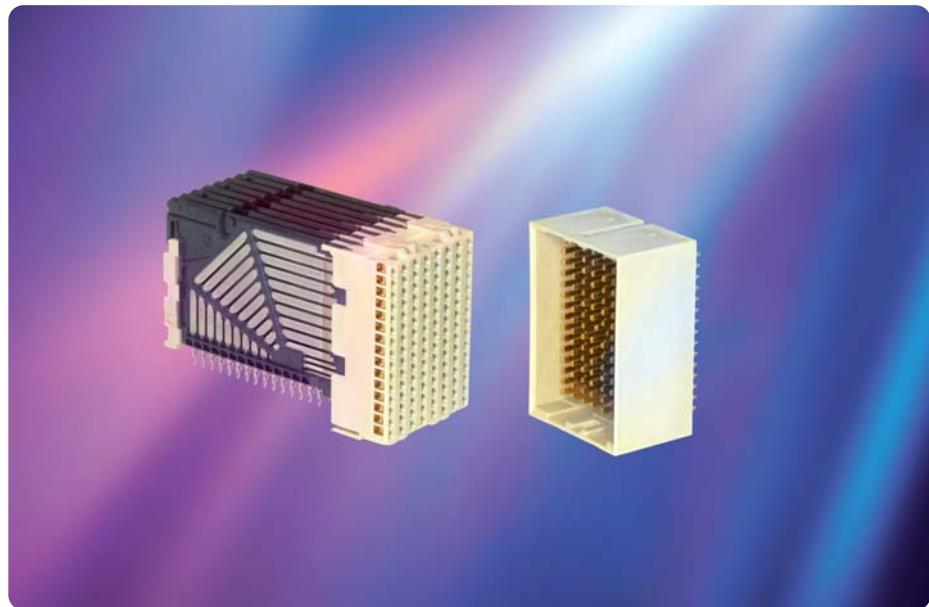
| | | |
|-------------|---------|----------|
| 90 pos 2 mm | 10 IMLA | 10034251 |
| 72 pos 2 mm | 8 IMLA | 10045271 |
| 54 pos 2 mm | 6 IMLA | 10043546 |

AIRMAX VS®

BACK PANEL - HEADER

FEATURES

For applications where risks of damaging connectors on daughter cards is more apparent, FCI offers right-angle receptacles that mate with vertical headers dedicated to back panel application. The protective cover on these vertical headers also serves as press in block and provides maximum protection from shipment to installation.



MAIN PRODUCTS

| | | | PART REFERENCES |
|-------------------------------|--------------|---------|-----------------|
| Vertical header 3 pair | 54 pos 2 mm | 6 IMLA | 10056101 |
| Right-angle receptacle 3 pair | 54 pos 2 mm | 6 IMLA | 10053656 |
| Vertical header 4 pair | 120 pos 2 mm | 10 IMLA | 10056100 |
| | 120 pos 3 mm | 10 IMLA | 10056430 |
| Right-angle receptacle 4 pair | 120 pos 2 mm | 10 IMLA | 10035754 |
| | 120 pos 3 mm | 10 IMLA | 10045722 |
| Vertical header 5 pair | 150 pos 2 mm | 10 IMLA | 10056098 |
| Right-angle receptacle 5 pair | 120 pos 2 mm | 8 IMLA | 10045548 |
| | 150 pos 2 mm | 10 IMLA | 10034475 |

AIRMAX VS®

CO-PLANAR

FEATURES

► An increasing number of applications require co-planar type interconnects (examples are extender cards and ATCA™ zone 3 interconnects). The right-angle receptacle/ right-angle header combination of the AirMax VS® family allows for this type of interconnect. The same right-angle header as used in back panel applications can be mated with a co-planar dedicated right-angle receptacle.

AIRMAX VS® ADVANCED TCA® Solutions for “zone 3”

FEATURES

► Advanced Telecom Computing Architecture, or AdvancedTCA is a series of industry standard specifications (PICMG 3.x) for the next generation of carrier grade communications equipment.
► AdvancedTCA incorporates the latest trends in high speed interconnect technologies, next generation processors, and improved reliability, manageability and serviceability, resulting in a new blade (board) and chassis (shelf) form factor optimized for communications.



MAIN PRODUCTS

Right-angle receptacle 3 pair

| | | |
|-------------|---------|----------|
| 54 pos 2 mm | 6 IMLA | 10053656 |
| 90 pos 2 mm | 10 IMLA | 10056335 |

Right-angle headers 3 pair

| | | |
|-------------|------------------------|----------|
| 54 pos 2 mm | 6 IMLA with end walls | 10039851 |
| 54 pos 2 mm | 6 IMLA | 10040862 |
| 90 pos 2 mm | 10 IMLA with end walls | 10034249 |
| 90 pos 2 mm | 10 IMLA | 10034264 |

Right-angle receptacle 4 pair

| | | |
|--------------|---------|----------|
| 120 pos 2 mm | 10 IMLA | 10035754 |
| 120 pos 3 mm | 10 IMLA | 10045722 |

Right-angle headers 4 pair

| | | |
|--------------|------------------------|----------|
| 120 pos 2 mm | 10 IMLA with end walls | 10028436 |
| 120 pos 2 mm | 10 IMLA | 10029391 |
| 120 pos 3 mm | 10 IMLA with end walls | 10035515 |
| 120 pos 3 mm | 10 IMLA | 10035514 |

Right-angle receptacle 5 pair

| | | |
|--------------|---------|----------|
| 120 pos 2 mm | 8 IMLA | 10045548 |
| 150 pos 2 mm | 10 IMLA | 10034475 |

Right-angle headers 5 pair

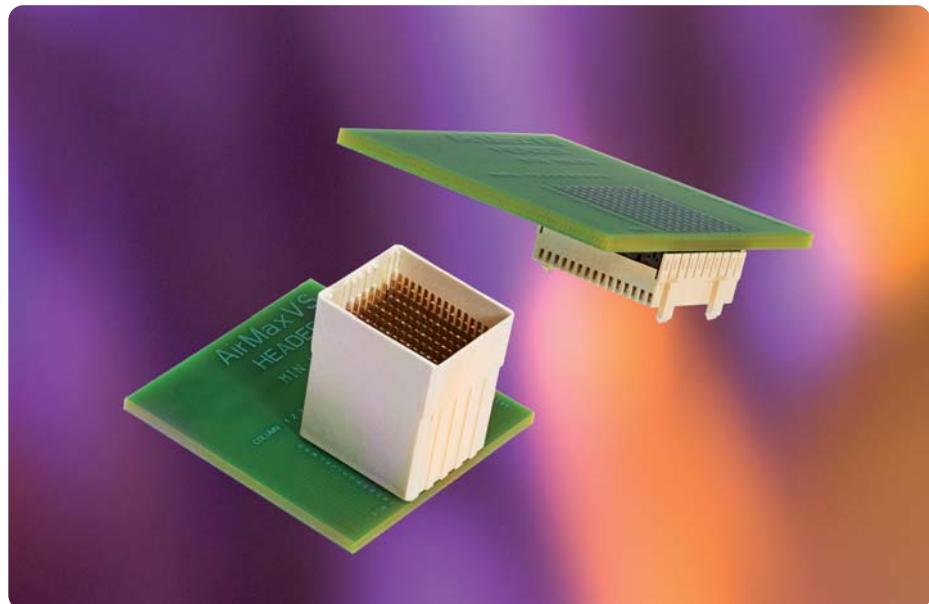
| | | |
|--------------|------------------------|----------|
| 120 pos 2 mm | 8 IMLA with end walls | 10041460 |
| 120 pos 2 mm | 8 IMLA | 10041746 |
| 150 pos 2 mm | 10 IMLA with end walls | 10025613 |
| 150 pos 2 mm | 10 IMLA | 10016527 |

PART REFERENCES

AIRMAX VS® MEZZANINE

FEATURES

- Mezzanine type interconnects can be built when combining vertical headers with vertical receptacles. Within the AirMax VS® family the same vertical receptacle as used in back panel applications can be mated with mezzanine dedicated vertical headers. These vertical headers will determine the total mated stack height and are provided with a protective cover that also serves as press in block.
- Mezzanine headers allow for stack heights of 12.5 mm up to 30 mm in a variety of IMLA-counts and -spacings.



MAIN PRODUCTS

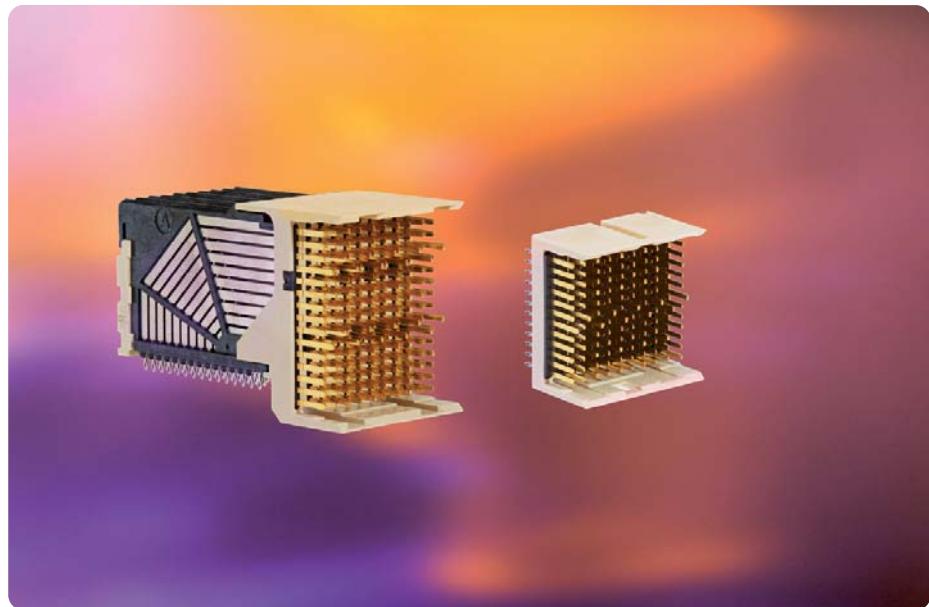
| MAIN PRODUCTS | STACK HEIGHT | PART REFERENCES | |
|----------------------------|--------------|-----------------|----------|
| Vertical header 3 pair | 54 pos 2 mm | 12.5 mm | 6 IMLA |
| | 90 pos 2 mm | 12.5 mm | 10 IMLA |
| Vertical receptacle 3 pair | 54 pos 2 mm | 6 IMLA | 10043546 |
| | 90 pos 2 mm | 10 IMLA | 10034251 |
| Vertical header 4 pair | 120 pos 2 mm | 12.5 mm | 10 IMLA |
| Vertical receptacle 4 pair | 120 pos 2 mm | 10 IMLA | 10028264 |
| Vertical header 5 pair | 150 pos 2 mm | 26 mm | 10 IMLA |
| | 150 pos 2 mm | 12.5 mm | 10 IMLA |
| Vertical receptacle 5 pair | 150 pos 2 mm | 10 IMLA | 10016537 |

AIRMAX VS®

I/O HEADERS

DESCRIPTION

- AirMax VS® I/O headers mate with AirMax VS® Cable Assemblies in internal or external I/O type applications. Vertical headers allow for cabling off a back panel (Rear Plug Up) whereas right angle headers accommodate front panel I/O applications and both headers will accept cable plugs with or without active latches.
- AirMax VS® headers are designed to support the shortest possible cable exits down to 22 mm in back panel applications (excluding cable bend radius).
- The AirMax VS® headers are scalable to the number of columns (6, 8 or 10 columns) and are end to end stackable. The standard product consists of 10 columns and accommodates 4 pairs per column providing a density of 100 differential pairs per 50 mm of linear board length. The column differential pairs demonstrate low insertion loss and low cross talk performance at data rates greater than 12.5 Gb/s. Consistent with the complete AirMax VS® family of products, pins can be assigned to either signal or ground so that the same product can be used for differential or single ended (coaxial) cable configurations.



FEATURES

Use of AirMax VS® technology:

- Air as dielectric;
- NO interleaving shields;
- Plug compatible with all license suppliers of AirMax VS®

12 contacts per column:

- 120 contacts per module;
- 40 differential pairs per module;

Open pin field structure:

- Allows for single ended and differential application;

Dual beam, dual sided contact structure:

- Improves reliability and durability;

Right angle and vertical headers:

- Front panel I/O;
- Back panel I/O;

TARGET MARKETS & APPLICATIONS

Data Com

- Servers;
- Storage devices
- Computing platforms

Telecom

- Switches
- Routers
- 3G Base stations

Industrial

- Test & measurement equipment
- Industrial controller units

MAIN PRODUCTS

PART REFERENCES

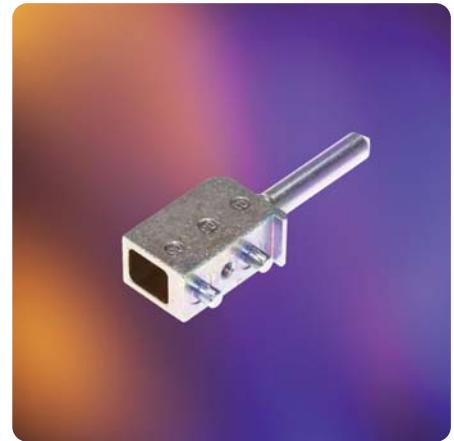
| | | |
|---------------------------|----------------------|----------|
| Vertical header 4 pair | 2 mm 10 column - I/O | 10041268 |
| Right angle header 4 pair | 2 mm 8 column - I/O | 10061399 |
| | 3 mm 6 column - I/O | 10062319 |

Please contact FCI to find the right partner for customised cable assembly solutions.

AIRMAX VS® ACCESSORIES

FEATURES

The AirMax VS® product family is complemented with power headers & receptacles as well as a variety of guide pins & modules. Since the AirMax VS® connector is designed for application in Hard Metric environments, the modules can be combined with FCI's Millipacs modules on the same card without the need to provide special cut outs on the card edges. The guide pin & guide module combination provides additional coding options as well as an ESD contact. The smaller guide blade & guide module combination is designed for minimum board real estate consumption.



MAIN PRODUCTS

AirMax VS® Guides

| PART REFERENCES | |
|---|----------|
| 7.2 mm Guide Blade - External Thread, Long | 10037908 |
| 7.2 mm Guide Blade - External Thread, Short | 10037915 |
| 7.2 mm Guide Module Receptacle | 10037909 |
| 10.7 mm Guide Pin - Internal Thread | 10037911 |
| 10.7 mm Guide Pin - External Thread | 10037910 |
| 10.7 mm Guide Module Receptacle | 10037912 |
| 7.2 mm Guide Blade Co-Planar | 10044314 |
| 10.7 mm Guide Pin Co-Planar | 10044366 |
| 4 Contact receptacle | 10028916 |
| 2x2 Contacts right-angle header | 10028917 |
| 1x2 Contacts right-angle header | 10028918 |
| Co-planar power receptacle | 10052620 |

AirMax VS® Power Modules

DRAWING NUMBERS INDEX

| DRAWING NUMBER | PAGE | DESCRIPTION |
|----------------|------|--|
| 10016527 | 8-10 | Right-angle header 5 pair 150 pos 2 mm |
| 10016537 | 8-11 | Vertical receptacle 5 pair 150 pos 2 mm |
| 10025613 | 8-10 | Right-angle header 5 pair 150 pos 2 mm |
| 10028264 | 8-11 | Vertical receptacle 4 pair 120 pos 2 mm |
| 10028436 | 8-10 | Right-angle header 4 pair 120 pos 2 mm |
| 10028916 | 13 | AirMax VS® Power Module 4 Contact receptacle |
| 10028917 | 13 | AirMax VS® Power Module 2x2 Contacts right-angle header |
| 10028918 | 13 | AirMax VS® Power Module 1x2 Contacts right-angle header |
| 10029391 | 8-10 | Right-angle header 4 pair 120 pos 2 mm |
| 10034249 | 8-10 | Right-angle header 3 pair 90 pos 2 mm |
| 10034251 | 8-10 | Vertical receptacle 3 pair 90 pos 2 mm |
| 10034264 | 8-10 | Right-angle header 3 pair 90 pos 2 mm |
| 10034475 | 9-10 | Right-angle receptacle 5 pair 150 pos 2 mm |
| 10035146 | 8 | Vertical receptacle 5 pair 150 pos 3 mm |
| 10035465 | 8 | Vertical receptacle 4 pair 120 pos 3 mm |
| 10035514 | 8-10 | Right-angle header 4 pair 120 pos 3 mm |
| 10035515 | 8-10 | Right-angle header 4 pair 120 pos 3 mm |
| 10035754 | 9-10 | Right-angle receptacle 4 pair 120 pos 2 mm |
| 10037323 | 8 | Right-angle header 5 pair 150 pos 3 mm |
| 10037324 | 8 | Right-angle header 5 pair 150 pos 3 mm |
| 10037908 | 13 | AirMax VS® Guide 7.2 mm Guide Blade - External Thread, Long |
| 10037909 | 13 | AirMax VS® Guide 7.2 mm Guide Module Receptacle |
| 10037910 | 13 | AirMax VS® Guide 10.7 mm Guide Pin - External Thread |
| 10037911 | 13 | AirMax VS® Guide 10.7 mm Guide Pin - Internal Thread |
| 10037912 | 13 | AirMax VS® Guide 10.7 mm Guide Module Receptacle |
| 10037915 | 13 | AirMax VS® Guide 7.2 mm Guide Blade - External Thread, Short |
| 10039851 | 8-10 | Right-angle header 3 pair 54 pos 2 mm |
| 10040993 | 8 | Vertical receptacle 5 pair 120 pos 2 mm |
| 10040862 | 8-10 | Right-angle header 3 pair 54 pos 2 mm |
| 10041268 | 12 | Vertical header 4 pair 2 mm 10 column - I/O |
| 10041460 | 8-10 | Right-angle header 5 pair 120 pos 2 mm |
| 10041746 | 8-10 | Right-angle header 5 pair 120 pos 2 mm |
| 10043546 | 8-11 | Vertical receptacle 3 pair 54 pos 2 mm |
| 10044314 | 13 | AirMax VS® Guide 7.2 mm Guide Blade Co-Planar |
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| 10045266 | 8 | Right-angle header 3 pair 72 pos 2 mm |
| 10045267 | 8 | Right-angle header 3 pair 72 pos 2 mm |

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| 10045271 | 8 | Vertical receptacle 3 pair | 72 pos 2 mm |
| 10045548 | 9-10 | Right-angle receptacle 5 pair | 120 pos 2 mm |
| 10045722 | 9-10 | Right-angle receptacle 4 pair | 120 pos 3 mm |
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| 10052825 | 8 | Right-angle header 4 pair | 72 pos 2 mm |
| 10052829 | 8 | Vertical receptacle 4 pair | 72 pos 2 mm |
| 10052837 | 8 | Right-angle header 4 pair | 96 pos 2 mm |
| 10052838 | 8 | Right-angle header 5 pair | 96 pos 2 mm |
| 10052842 | 8 | Vertical receptacle 4 pair | 96 pos 2 mm |
| 10053656 | 9-10 | Right-angle receptacle 3 pair | 54 pos 2 mm |
| 10056098 | 9-11 | Vertical header 5 pair | 150 pos 2 mm |
| 10056100 | 9-11 | Vertical header 4 pair | 120 pos 2 mm |
| 10056101 | 9-11 | Vertical header 3 pair | 54 pos 2 mm |
| 10056103 | 11 | Vertical header 3 pair | 90 pos 2 mm |
| 10056246 | 9-11 | Vertical header 5 pair | 150 pos 2 mm |
| 10056335 | 10 | Vertical receptacle 3 pair | 90 pos 2 mm |
| 10056430 | 9 | Vertical header 4 pair | 120 pos 2 mm |
| 10061319 | 12 | Right-angle receptacle 4 pair | 2 mm 8 column - I/O |
| 10061399 | 12 | Right-angle receptacle 4 pair | 2 mm 8 column - I/O |
| 10062319 | 12 | Right-angle header 4 pair | 3 mm 6 column - I/O |

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