



APPLICATION DATASHEET

AirMax VS® BGA Connector Development

BGA Backplane interconnect development to extend the performance of the AirMax VS press fit connector

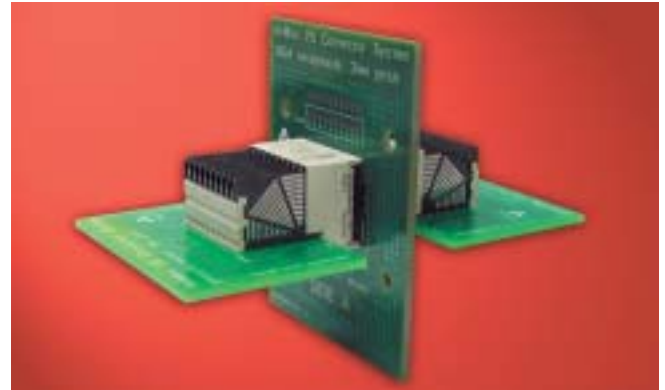
> Description

FCI is announcing the next step for their revolutionary AirMax VS® connector system by incorporating a BGA attach for the Receptacle, backplane connector. The press fit AirMax VS offers the highest performing connector in the marketplace. The BGA addition extends this performance.

The resulting system will show lower impedance through the footprint by reducing the signal reflection. AirMax VS connectors are leading the way to low cost, high performance system interconnect solutions. The development of a backplane BGA attach is built upon the foundation of FCI's manufacturing expertise of BGA connectors including MEG-Array® and Gig-Array™ products. FCI is partnering with several OEM and CEM companies in the development of this exciting technology.

> Features & Benefits

- Backplane BGA attach
- Enables minimum through via size
- Optimize footprint and routing options
- Orthogonal routing options
- Maximize the use of advanced PCB manufacturing techniques by utilizing buried and micro-vias
- Optimize or eliminate the need for backdrilling
- Reduce layer count and applied cost
- Backwards compatible with AirMax VS press fit connectors



> Target Markets/Applications

- Data Com
 - Servers
 - Storage Devices
 - Computing Platforms
- Telecom
 - Switches
 - Routers
 - Internet Equipment
- Chipset Design
- Medical
- Instrumentation



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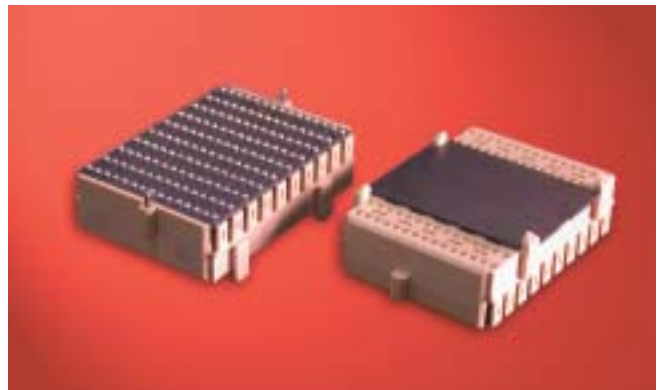
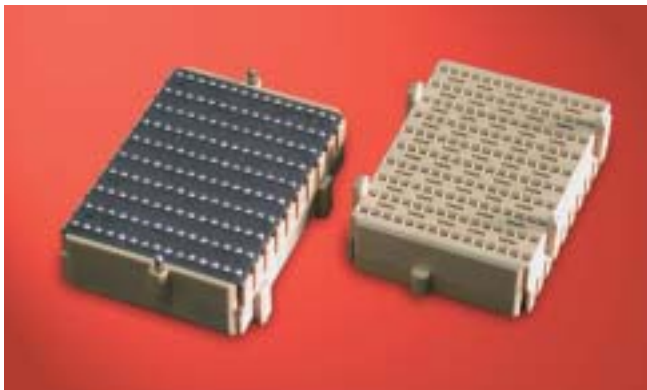
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> BGA Test Evaluation

Reliability Evaluations:

- Mechanical
 - Solder ball shear strength in both axis
 - Solder ball compressive strength
 - Solder ball tensile strength
 - Shock and Vibration
 - Flex test in 2 directions
- Environmental
 - Solder ball creep in both axis under load and elevated temperature
 - Temperature cycling
 - Current rating



FCI

Americas - Tel.: 1 (800) 237 2374

Europe - Tel.: 33 1 39 49 21 83

Asia/Pacific - Tel.: 65 6549 6666

www.fciconnect.com

