

# High-Speed Board-to-Board Connectors

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## Abstracts

Bishop & Associates research report, High-Speed Board-to-Board Connectors, analyzes high-speed connectors used to connect boards, memory modules, hard drives and solid-state drives in electronic systems and how these connectors are changing as a result of new data center and communications architectures.

What are the market drivers that influence the growth of high-speed board-to-board connectors? How important is signal integrity? What standards are impacting the design of board-to-board connectors? What industry trends are driving growth in board-to-board connectors?

What refinements in high-speed board-to-board connectors have allowed mezzanine connectors to approach the 25Gb/s system speed?

Which board-to-board connector types are anticipated to show the most growth over the next five years? Which types will see a decline?

Who are the major suppliers of board-to-board connectors and what segment of the market are they focusing on? How important is cross-licensing of electrically identical products and for which product types has this occurred?

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19" RACK ARCHITECTURE

2U, 4U PACKAGING

9U SUB-RACKS

VITA – VME International Trade Association

PICMG – PCI Industrial Computer Manufacturers Group

Open Compute Open Rack Architecture

OpenCloud Connector Specifications

Storage Box Architectures

Mating Multiple Connectors at Once

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Inspection

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Wafer Style Connectors

Screw Machine Connectors

Right Angle to Right Angle Connectors to Connect Coplanar Boards

Vertical Edge Card Connectors

Riser Cards

Pluggable Modules

Memory Connectors

Modules

SODIMM

MiniDIMM

Angled DIMM  
JEDEC  
Storage Connectors  
SAS (Serial Attached SCSI)  
SATA (Serial ATA)  
SCA-2  
Micro SATA  
Slimline SATA

## **CHAPTER 4 – INDUSTRY STANDARDS**

IEC – International Electrotechnical Commission  
ANSI – American National Standards Institute  
IEEE – Institute for Electrical and Electronic Engineers  
PICMG  
AdvancedMC (AMC)  
MicroTCA  
MicroTCA MCH Plug Solutions  
COM Express Modules  
VITA – VME International Trade Association  
VITA 42 XMC Connector  
VITA 57 FMC Connector  
VITA 61 Rugged XMC Connector  
PCI-SIG  
PCI Express  
PCI Express Mini Card  
M.2  
MXM 3.0  
SFF-SIG  
PISMO Platform Independent Storage

## **CHAPTER 5 – HIGH-SPEED BOARD-TO-BOARD CONNECTOR SUPPLIER PROFILES**

TE Connectivity  
TE Mictor  
TE Mictor SB  
TE Mezalok  
TE STRADA Mesa

TE HM ZD Mezzanine  
Samtec  
Samec Q-Strip  
Samtec Q2 Shielded  
Samtec Edge Rate Connectors  
Samtec High Speed Edge Card Connectors (HSEC)  
Samtec Razor Beam System  
Samtec Q Rate  
Samtec SamArray  
Samtec SEARAY Connector  
Samtec SEARAY-LP  
Samtec Z-Ray Interposers  
Samtec SkyRay  
Amphenol-TCS  
Amphenol-TCS Strategy  
Amphenol-TCS NeXLev  
Amphenol-TCS InfinX  
Amphenol-TCS XCede  
Amphenol-TCS Paladin  
Amphenol High-Speed Edge-27  
Amphenol Lynx  
Amphenol-TCS Aptera  
Amphenol-TCS VHDM Stacker  
Molex  
Molex/Samtec SEARAY  
Molex/Samtec HD MEZZ  
Molex NeoScale High-Speed Mezzanine  
Molex NeoPress High-Speed Mezzanine  
Molex HS Dock+ System  
Molex SpeedStack  
Molex Edgeline  
Molex Edgeline  
Molex CoEdge  
Molex Impact Stacker  
Hirose  
Hirose Strategy  
Hirose FX10  
Hirose FX11  
Hirose FX12

Hirose IT3  
Hirose IT5/Samtec SkyRay  
Hirose XG1  
Hirose FX18 RA/Coplanar  
Amphenol FCI  
Amphenol FCI Meg-Array  
Amphenol FCI Gig-Array  
Amphenol FCI TwinMezz  
Amphenol FCI ExaMezz  
JAE  
JAE WA6  
JAE TX24A/TX25A  
JAE WD2  
JST  
JST JMD Connector  
JST JMC Connector  
JST Vertical SO DIMM  
Advanced Interconnect  
Advanced Interconnect B2B Mezzanine  
HARTING  
HARTING con:card+  
HARTING AMC Plug  
Yamaichi  
Yamaichi AMC and MicroTCA Compression  
ERNI MicroSpeed  
Fujitsu Differential Connector

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2016F HIGH-SPEED MEZZANINE CONNECTORS BY REGION

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2021F STORAGE CONNECTORS BY REGION

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2016F DIMM MODULES BY REGION

2021F DIMM MODULES BY REGION

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