

# 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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2U, 4U PACKAGING

9U SUB-RACKS

VITA – VME International Trade Association

PICMG – PCI Industrial Computer Manufacturers Group

Open Compute Open Rack Architecture

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Screw Machine Connectors

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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

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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  
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