

High-speed backplane connectors and optical modules



Overview

Our backplane connectors provide reliable high-speed connectivity and signal integrity, while our backplane modules facilitate power and signal distribution along with system integration in complex assemblies. Amphenol offers an array of high speed interconnect solutions, suitable for next generation speed and density requirements. TE Connectivity gets the best. Molex collaborates with our customers to create innovative, scalable solutions that seamlessly support rapidly evolving speeds and feeds—while minimizing insertion loss and maintaining optimal signal integrity. Zap system performance with the flexibility of an open pin field design. The connectors leverage AirMax VS® and VSe® design features and technology to achieve. Open.

Article Content

High Speed Backplane Connectors | TE Connectivity

High-speed backplane connectors for keeping data flowing Our broad portfolio of high-speed backplane connectors provides you with the design flexibility you

Backplane Connectors | TE Connectivity

Backplane Connectors This type of connector is engineered to increase data rates and decrease signal rise, delivering a more reliable high-speed transmission with greater clarity. Our portfolio of

Amphenol Aerospace

Amphenol Aerospace designs and manufactures QPL Mil-spec and custom circular and rectangular electrical and electronic connectors for the military and

Quick Reference Guide High Speed Backplane Interconnect Solutions

High Speed Backplane Interconnect Solutions The emergence of faster data rates, and decreasing signal rise times, requires better performing, high speed connectors. TE Connectivity's broad

High Speed Connectors, Board-to-Board Connectors & Systems

Samtec offers the largest variety of high-speed board-to-board and backplane interconnects in the industry with full engineering support, online tools and an unmatched service attitude. A wide range

Backplane Connectors | Products | Amphenol

Millipacs® Plus Configurable Connectors Millipacs® Plus 2mm Hardmetric connector offers a choice of data rates ranging from 3 to 25Gb/s with configurable and

INTERCONNECT SOLUTIONS ALIGNED WITH THE SOSA

Beyond Speed TE is also reducing size through higher contact densities and supporting RF and optical interconnects at the board level allowing compact, high-speed box-to-box connectivity. TE has a full

Backplane Connectors

High-speed backplane and midplane solutions to meet the demand for increased network bandwidth and advanced technology. Each solution is designed for high

Backplane Connectors | TE Connectivity

Explore our latest rugged high-speed connector solutions for Aerospace, Defense and Marine industries supporting VITA standards, VPX protocols, and wired connections for protocols up to 10 GB/s.

High Speed Connectors, Board-to-Board Connectors & Systems

High speed connectors, mezzanine systems with integral ground planes, high-density arrays, backplane interconnects, rugged signal integrity optimized Edge Rate® systems and high-speed performance to

High-speed system architecture design of DCN core switch

Testing high-speed channels include a switch ASIC with 112G SERDES, a PCB trace, chip to the Overpass cable connector, QSFP-DD 800 connector, and 800G DR8 optical module.

High Speed Backplane Connectors | Amphenol CS

Amphenol CS is the leader in high-speed, high-density connection systems, designing and manufacturing the industry's leading connectors and

High-Speed Backplane PCB Design Guide

What is a backplane? Backplanes can be used to connect multiple devices, modules, or circuit boards together to achieve high-speed data transmission, signal

Board-to-Board | High-Speed Backplane

Board-to-Board | High-Speed Backplane Explore Amphenol's high-speed backplane connectors, delivering industry-leading density and performance for today's most

High Speed Backplane Interconnect Solutions

QUICK REFERENCE GUIDE The emergence of faster data rates and decreasing signal rise times requires better performing, high-speed connectors. TE Connectivity's (TE) broad portfolio of high

CABLED BACKPLANE SYSTEMS

In this paper, we will examine the need for high-speed cabled backplane connectivity, its advantages over PCB-based alternatives, its potential drawbacks, and how TE Connectivity (TE) delivers cabled

Backplanes | Open.Tech

Open.Tech specializes in providing custom backplane assemblies with a focus on high-speed, high-density components that power them. Our expertise includes

Quick Reference Guide High Speed Backplane Interconnect Solutions

High Speed Backplane Interconnects Once you have determined which connector description best suits your needs, use the chart below to find a part number to search the TE website.

Backplane Connectors, Micro Backplane Connector

Samtec's backplane connectors include ExaMAX® for high-speed 56 Gbps PAM4 performance and XCede® HD for high-density flexibility and space savings.

[AirMax® High-Speed Backplane Connectors | Amphenol](#)

AirMax VS ® High-Speed Backplane Signal Connectors The AirMax VS ® connector combines Virtual Shield Technology and air dielectric design for

[Gigabit Ethernet](#)

IEEE 802.3ap defines Ethernet operation over electrical backplanes at different speeds. Ethernet in the first mile later added 1000BASE-LX10 and -BX10

[LightCONEX Optical Backplane connectors | Smiths](#)

The LightCONEX ® optical interconnect family includes plug-in and backplane module connectors that have been developed to be compliant with the

[High Speed Backplane Connectors | TE Connectivity](#)

Consider our high-speed backplane connectors for your server, switch, router, and optical transport applications. TE Connectivity gets the best performance out of

[High-Speed Backplane Connectors and Cables Overview](#)

Paladin® HD Amphenol is a leader in high-speed, high-density connection systems, designing and manufacturing industry-leading connectors and backplane systems. We provide integrated

[Amphenol's Newest High Speed Interconnect Offerings](#)

Amphenol offers an array of high speed interconnect solutions, suitable for next generation speed and density requirements. Our extensive

[High Speed Connectors | Products | Amphenol](#)

CA Series™ high performance 32 Gb/s+ compression mount connectors & interposers offer exceptional signal integrity and high density for applications like

[Backplanes | Open.Tech](#)

Open.Tech's high-speed, high-density backplane assemblies and components, including connectors, modules, and contacts. SOSA aligned and built to meet

Contact Us

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