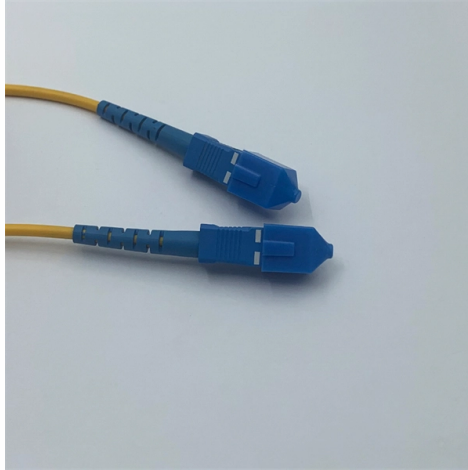


Samtec optical modules



Overview

Samtec offers mid-board optical transceiver solutions. This growing and comprehensive family of products delivers reliable signal integrity over an extended distance in chip-to-chip, board-to-board, system-to-system, and onboard connectivity. FireFly™ Micro Flyover System™ is the first. Samtec's FireFly™ Micro Flyover System™ is a future proof, inside-the-box interconnect solution, with performance to 28 Gbps and proven 850 nm VCSEL array technology. Optical cable systems also include PCIe®. The designs take data connection "off the board" for up. To accomplish these goals, next generation enablement technologies will be needed, and Samtec is in development for a new line of mid-board optical transceivers, called the Halo-C, part of the planned Halo line.



Article Content

Samtec FireFly™ Mid-Board Optical Transceiver Solutions

Samtec offers mid-board optical transceiver solutions. This growing and comprehensive family of products delivers reliable signal integrity over an extended distance in chip-to-chip, board-to-board,

High Performance Active Optics & Passive Optics Solutions

Samtec is the industry-leading provider of mid-board optical transceiver solutions. This growing and comprehensive family of products provides reliable signal integrity over an extended distance in chip

Evolution of Co-Packaged Interconnects

Here's some history of Samtec's optical innovations: FireFly demonstrates the viability of combining optical and copper lanes in a pluggable

Samtec Halo Optical Transceivers to Pave Way for High

Samtec says that it's designed these next-gen mid-board optical transceiver solutions to achieve best-in-class power consumption rates, smallest

Halo® Next Gen Mid-Board Optical Transceivers

Samtec's Halo® mid-board optical transceivers (IN DEVELOPMENT) are designed for next gen embedded applications demanding 56/112 Gbps PAM4 performance

OPTICS O O

APPLICATIONS Samtec mid-board optical transceivers are ideal for embedded and rugged applications, including phased array radar, ASIC emulation, medical imaging and embedded computing.

Samtec Highlights Innovative Mid-Board Optical Transceiver Solutions

BonChip Electronics is a proud authorized distributor of Samtec products, offering their complete range of high-performance interconnect solutions, including the innovative FireFly®, Halo®, and

Samtec Halo® Next Gen Mid-Board Optical Transceivers | ECOC

Samtec is the industry-leading provider of mid-board optical transceiver solutions. This growing and comprehensive family of products provides reliable signal integrity over an extended

Passive Optical Systems | Cables and Adaptors

This passive optical system features a patch cable with MTP end options and a single or double port adaptor with keying options for proper alignment.

OPTICAL SOLUTIONS

Samtec's 25/28 Gbps FireFly™ FMC+ Module is VITA 57.4 electrically compliant and provides up to 400/448 Gbps full-duplex bandwidth over 16 channels from FPGA to an industry-standard multi

Samtec Optics Group, Industry Leading Provider Of Mid-Board Optical ...

Samtec is the industry leading provider of mid-board optical transceiver solutions. Our design tools and expertise help you develop systems with reliable signal integrity over extended distances in chip-to

Samtec Inc hiring Principal Optoelectronic Packaging Engineer in San ...

Apply Six Sigma methodologies (DMADV) and FMEA to design and document new processes. Ensure optical module reliability by conducting necessary testing to meet commercial and military standards.

Samtec Halo® Next Gen Mid-Board Optical Transceivers | ECOC

Optical products are offered with Samtec's Sudden Service® - full engineering support, online tools and a service attitude that is unmatched. Samtec's new Halo® Next Gen Mid-Board

Mid-Board Optical Transceiver Solutions At OFC 2025

Mid-Board Optical Transceiver Solutions At OFC 2025 By Danny Boesing April 21, 2025 Optics, Products Samtec's booth at OFC 2025 featured

Samtec Wiki

Samtec provides connectors, cable assemblies and active optical modules. Their products take the data produced by the chips in a system and

Halo optical transceivers deliver low error rate at high speed

Samtec offers several product families of mid-board optical transceivers. The Samtec Halo mid-board transceiver has been designed for next-generation embedded applications that

FireBlade™ FireFly™ OCP OAI EXP Module

Samtec offers an optical OAI EXP module featuring FireFly™ mid-board optical transceivers in a compact form factor ideal for AI/ML system topologies.

Samtec Mid-Board Optical Transceiver Solutions (OFC 2025)

Samtec had several live-product optical demonstrations at OFC 2025, including PCIe 5.0 over fiber, co-packaged chip systems, the new Halo low-profile and rugged transceiver, and the new Fireblade

IN DEVELOPMENT

Rugged surface mount connector with integrated locking latch mechanism simplifies mating/unmating of the cable assembly Contact Optics@samtec for more

14 Gbps FireFly™ FMC™ Development Kit

Overview Samtec's 14 Gbps FireFly™ FMC™ Module provides up to 140 Gbps full-duplex bandwidth over 10 channels from an FPGA to an industry-standard multi

The New 2024 Catalog

Samtec releases new 2024 catalog featuring new products and technologies, as well as highlighting industry leading service and online tools.

New Halo Optical Transceiver Achieves BER of e-12 at

By Danny Boesing January 8, 2025 Optics, Products Samtec's new Halo™ optical transceiver was featured in a live product demonstration at SC24. It was one of

Samtec At OFC 2025

Samtec At OFC 2025 At OFC 2025, Samtec's newest optic and copper solutions will be on display and in live product demonstrations.

Samtec FireFly™ Mid-Board Optical Transceiver Solutions

The optical engines in FireFly™ provide adjustable power levels to support cable lengths up to 100 m. As a VITA 57.4 FMC+ solution, the Samtec 25/28 Gbps FireFly™ FMC+ Module can be used for

Contact Us

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