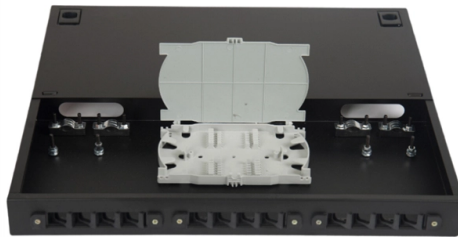


Card-mount fiber optic communication module



Overview

Shop DigiKey's large in-stock selection of Fiber Optic Transceiver Modules. View inventory, pricing and order now for same day shipping!

Key Takeaways

Card-mount fiber optic communication modules are interface cards that enable fiber optic data transmission and reception, designed to plug directly into a host system or chassis for network integration. OverviewCard-mount fiber optic modules are electronic interface cards that provide fiber optic connectivity for data or control networks. They typically include transceivers for transmitting and receiving optical signals and are designed to fit into a host CPU, chassis, or enclosure, occupying a defined card footprint.

These modules are widely used in fire-alarm systems, industrial networks, and enterprise data centers to extend communication distances and improve signal integrity over fiber optic cabling.

Mounting and Form Factor

Modules are mounted directly into a host system using a card slot or mounting plate, such as the COM-BRK plate for Siemens or the 3-CHAS7 chassis for Edwards EST3 systems. They occupy a half or full card footprint, depending on the system design, and can be installed in CAB-series enclosures or modular chassis. Some modules support daisy chain or star network configurations, allowing flexible network topologies that are not possible with standard copper RS-485 networks.

Fiber Types and Connectivity

Modules support single-mode (9/125 μm) and multi-mode (50/125 μm or 62.5/125 μm) fiber. Connections are typically made using SC-style duplex connectors, and modules can accommodate one to four transceivers for network expansion.

Fiber segments can reach up to 131,000 ft for single-mode and 13,100 ft for multi-mode, with total network length limited by communication delay across the system. Some modules also support hybrid copper/fiber configurations, enabling seamless conversion between copper and fiber networks.

Power and Indicators

Modules are powered by 24 VDC from the host system or an external power supply, ensuring continuous operation even during maintenance.

LE

D indicators provide real-time status for power and communication channels, simplifying troubleshooting and monitoring. Applications
Fire-alarm and safety networks: Transmit RS-485 or digital audio data between control panels and remote nodes. Enterprise and data center networks: Extend high-speed fiber connectivity using card-mount MPO, LC, or SC modules.

Industrial automation: Enable reliable long-distance communication in harsh environments where copper cabling is impractical. Key Advantages
Plug-and-play installation reduces setup time. Flexible network topologies support daisy chain, star, or hybrid configurations.

High reliability and long-distance communication with minimal signal loss. Compatibility with multiple fiber types and transceivers allows system scalability. Card-mount fiber optic communication modules are essential for modern network infrastructures, providing a compact, reliable, and flexible solution for integrating fiber optic communication into existing systems.

Article Content

Fiber Panels

CommScope's FPX series fiber panels are available to be shipped with factory installed adapter packs and/or preterminated pigtail assemblies which simplifies

Fiber Optic Transceiver Modules | Optoelectronics

Shop DigiKey's large in-stock selection of Fiber Optic Transceiver Modules. View inventory, pricing and order now for same day shipping!

Fiber Optic Hardware | Fiber Panels, Housings, Racks, and ...

Corning has a wide variety of hardware solutions to choose from to fit your cabling needs. Choose from racks, panels, modules, splice trays, ethernet fiber switches and other structured cabling components.

Fibre Optic Communications Interface

All copper and fiber circuits can be configured as supervised Class B, Class A, or Class X circuits. The 3-FIBMB2 has a constant output test signal that simplifies

Network Fiber Modules

Model FN2013-U1 and FN2014-U1 modules can be mounted in any CAB-1, CAB-2, CAB-3 enclosure and takes the same space as a CC-2 card cage. The Model FN2013-U1 and FN2014-U1 modules

ALINX 40G fiber optic interface fiber optic transceiver FH1224 FMC

FH1224 is a 2-channel 40G QSFP+fiber optic module, with each fiber optic transceiver integrating 4 transmission channels and 4 reception channels. This 4-channel pluggable interface has a

PowerLogic PM8000

This device is an optional module for advanced meter that provide fiber optic SC-duplex connectivity, converted from the onboard Ethernet port. The Fiber

Silent Knight® Multi-Mode/Single-Mode Fiber-Optic

Multi-mode and single-mode fiber-optic modules are plug-in fiber loop modules that work as a single channel to transmit or receive communications with Silent

3-FIBMB2 Fiber Module PDF | PDF | Optical Fiber

The SMXLO standard output single mode transceiver is suitable optic cable to copper wiring or from copper wiring to fiber optic for distances up to

Equipment for fibre optic networks Companies in South Korea | Find ...

Company Activity:manufacturing, distribution and salesOptical network detection fence system Supplier of: Installation and maintenance services for the optical industry Equipment for fibre optic networks

Network Fiber Modules

The connection between the Model FN2013-U1 module uses two (2), high-quality duplex 9/125 fiber optic cables and SC-style fiber connectors. Each segment of the fiber network can be up to 131,000

FireFly™ Mid-Board Optical Transceivers

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-mode fiber optic cable. The FireFly™ optical

Full text of "NEW"

Full text of "NEW" See other formats Word . the, > < br to of and a : " in you that i it he is was for - with) on (? his as this ; be at but not have had from will are they -- ! all by if him one your or up her there

Multiple Signal Fiber Optic Modems and Accessories for Panel and

Multiple Signal Fiber Optic Modems combine multiple system communications signals and converts them to fiber optic communications for transmission via a single, full duplex fiber optic cable

Chassis Rack Mount Card Cages Accessories

Accessories Chassis Rack Mount Card Cages Card Cage and Chassis Options for Ethernet, Data and Voice fiber optic network communication products in 1U and 4U 19" rackmounts. If you can't find a

Fiber Optic Transceiver Modules | Optoelectronics

Fiber Optic Transceiver Modules Fiber optic transceiver modules are fiber cable adaptive housings that contain a light source for transmitting data via fiber optic

Fiber Panels, Modules & Cassettes

Explore CommScope's efficient and scalable fiber splice panels designed for seamless connectivity. Accommodating LC, SC, and MTP/MPO connectors,

Optical Communication (OCM) Module

The Optical Communication Module (OCM) receives and transmits data via up to five independent safety qualified point to point fiber optic interfaces that are used to extend the RadICS Platform to additional

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: <https://metramarket.es>

Technical inquiry: <https://metramarket.es/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

