

Rail-mounted single-mode fiber optic transceiver



Article Overview

Rail-mounted single-mode fiber optic transceivers are DIN rail-compatible devices that convert Ethernet or fieldbus signals to single-mode fiber for long-distance, interference-free communication.

Overview

Rail-mounted single-mode fiber optic transceivers, often referred to as media converters, are designed to connect copper-based Ethernet networks to single-mode fiber optic cables. They are typically DIN rail mountable, making them suitable for industrial control panels, distribution boxes, and other compact installations (). These devices enable long-distance data transmission over fiber, often reaching up to 100 km depending on the model and optical wavelength ().

Key Features

- Fiber Type: Single-mode fiber (SMF), sometimes supporting multimode or single-strand fiber options ().
- Data Rates: Commonly support 10/100 Mbps or 1 Gbps Ethernet, with some models offering auto-negotiation and auto MDI/MDIX for simplified network integration ().
- Optical Wavelength: Typically 1310 nm for single-mode fiber, with some devices offering SC, LC, or BIDI connectors ().
- Mounting: Compact DIN rail housing allows easy installation in industrial environments, often with T-Bus power distribution for minimal space usage ()....

Article Content

Single-mode fiber transceiver

Single-mode optical fiber transceivers are an essential component in fiber optic communication systems, which transmit

Optics and Transceivers | Fiber Optical Transceivers

FS offers a growing portfolio of optical transceivers, with speed range from 100M, 1G, 10G, 25G, 40G, 50G, 100G, 200G, 400G to

Transceivers

Transceivers The Hirschmann line has a variety of transmitter and receiver options available, allowing users to choose the correct

Fiber Media Converters | Link Fiber and Copper Networks

Fiber Media Converters are critical in networks where fiber needs to be integrated with different kinds of cabling, such as copper or

SR-1110 DIN Rail Media Converters

Perle SR-1110 DIN Rail Media Converters transparently connect UTP copper to fiber. These rate

SEL-2830 Single-Mode Fiber-Optic Transceiver/Modem

Improve safety, signal integrity, and reliability by using two optical fibers instead of wire to transfer bidirectional serial data using

Fiber-Optic Products and Applications Data Sheet

Easy Application: SEL fiber-optic products are simple to install. Plug an EIA-232 transceiver into a standard 9-pin serial connector

Single Mode BiDi SFP+ Fiber Modules

Single Mode BiDi SFP+ Fiber Modules is a cost effective way to connect a single network device to a wide variety of fiber cable

Industrial Gigabit Ethernet Fiber Media Converters 10/100/1000M, DIN ...

Industrial Gigabit Ethernet Fiber Media Converters 10/100/1000M, DIN Rail Mount
Industrial Gigabit Ethernet Fiber Media Converter

Media converter DIN-rail singlemode

The EL100-3 is a compact RJ45 Ethernet to POF (Plastic Optic Fiber, HCS (Hard Clad Silica), multimode or singlemode fiber optic

SR-1000-SFP DIN Rail Media Converter

The Perle SR-1000-SFP DIN Rail Media Converter transparently connects UTP copper to fiber. The pluggable fiber optics port allows

Singlemode transceiver modules buy online

Singlemode solutions from Fiber24: Comprehensive and modern Discover our diverse selection of singlemode transceiver modules,

Singlemode Fiber Optics - Mouser

Singlemode Fiber Optics are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Singlemode Fiber

SEL-2831 Single-Mode Fiber-Optic Transceiver/Modem

Fiber-Optic Link— Connect a pair of transceivers and an SEL-C809 Single-Mode Fiber-Optic Cable with ST connectors for EIA-232

New One MC210FT-15 Single Mode Fiber Optic Transceiver

Find many great new & used options and get the best deals for New One MC210FT-15 Single Mode Fiber Optic

Ethernet-to-Fiber Media Converters

Moxa's Ethernet to Fiber media converters feature innovative remote management, industrial-grade reliability, and a flexible, modular

SEL-2829/2830/2831

The SEL fiber-optic attenuator kit (SEL part number 91560) is necessary for SEL-2830 and SEL-2831 Fiber-Optic Transceivers in

Media converter DIN-rail singlemode PoE | EKS

The EL100-3P with PoE (Power over Ethernet) function, is a compact RJ45 Ethernet to POF (Plastic Optic Fiber, HCS (Hard Clad

Fiber Media Converter

Single Mode SC WDM Single Fiber Mini Size DIN Rail Mount Industrial Type-Universal Gigabit Ethernet

Media converters for Ethernet networks

Media converters for single-fiber transmission Media converters with a WDM interface enable a full duplex

Media converters

Media converters FO media converters for Ethernet and fieldbus enable you to convert your copper

Single Mode 10GbE PoE++ Fiber Media Converter with SM LC

Buy Single Mode 10GbE PoE++ Fiber Media Converter with SM LC SFP+ Module
1310nm, 20km (12.42mi) Range, 90W PoE,

Amazon : Fiber To Ethernet Converter

A Pair of 1.25G/s Bidi Gigabit Single-Mode Fiber Ethernet Media Converter with 2PCS
Bidi SFP LC Transceiver Module Included,

SFP/SFP+, QSFP Network Transceivers & Media Converters | Newegg

Ubiquiti Networks 10 Gbps Bidirectional Single-Mode Optical Module Simplex
Transceiver UACC-OM-SM-10G-S-2 Device Type:

A Pair of 1.25G/s Bidi Gigabit Single-Mode Fiber

About this item What You Get: 2pcs Gigabit Single-mode Ethernet SFP Slot media
converters; 2pcs SFP

Singlemode Transceivers Fiber Optic Transmitters, Receivers ...

Singlemode Transceivers Fiber Optic Transmitters, Receivers, Transceivers are
available at Mouser Electronics. Mouser offers

Media converters

Fiber optic converter with SC duplex connection (1310 nm) for 100Base-TX to
singlemode fiber optics, DIN rail mountable, extended

DIN Rail Media Converters | Fiber to Ethernet | Perle

Perle DIN Rail mountable Media Converters are used to enable connections of UTP
copper-based

Contact Us

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