

Fiber Optic Serial Port Adapter



AI Overview

Fiber optic line to serial port adapters allow for the conversion of serial data signals (like RS-232, RS-422, and RS-485) to optical signals, enabling long-distance communication with immunity to electromagnetic interference.

Overview of Fiber Optic Serial Converters

Types of Converters:

- RS-232 to Fiber Optic Converters:** These converters transmit RS-232 serial data over fiber optic cables, making them suitable for applications requiring reliable long-distance communication.
- RS-422/485 to Fiber Optic Converters:** Similar to RS-232 converters, these devices can handle RS-422 and RS-485 signals, allowing for multi-drop configurations and longer distances.

Key Features:

- Distance:** Many fiber optic converters can extend serial signals over distances ranging from a few kilometers (multi-mode) to over 40 kilometers (single-mode).
- Environmental Resistance:** Industrial-grade converters are designed to operate in harsh environments, with temperature ranges from -40°F to 185°F (-40°C to 85°C).
- Plug and Play:** Most converters are easy to install with no need for additional software or complex configurations, making them user-friendly.

Applications:

- Industrial Automation:** Used in factories and plants to connect serial devices over long distances without interference.
- Telecommunications:** Ideal for connecting remote devices in telecommunications networks where electromagnetic interference is a concern.
- Data Acquisition:** Useful in systems that require reliable data transmission from sensors and other devices over long distances.

Recommended Products

- Moxa Serial-to-Fiber Converters:** Known for their reliability and ease of use, Moxa offers a range of industrial-grade converters that support various serial protocols.
- CommFront RS232/RS485/RS422 to Fiber Optic Converters:** These rugged converters are designed for industrial applications and come with a 5-year warranty.
- Thor Fiber Multi-Serial Converters:** These units support both RS-232 and RS-485 protocols and are designed for point-to-point bi-directional transmission.

By selecti...

Article Content

Industrial Serial RS232 RS485 RS422 to Fiber Converter ...

Overview Industrial RS232/RS485/RS422 to fiber optic converter solves the problems of electromagnetic interference, ground ring interference and lightning damage. It greatly improves the reliability,

Serial to Fiber Optic Converters

Converts RS232 RS485 RS422 to Optical Fiber Signals and vice versa. Rack (DIN-Rail) or Wall / Panel mounting for easy installation. Industrial grade with wide

Industrial RS232 To Multimode Fiber Optic Converter

The unit extends the maximum distance of any RS-232 signal up 1.2 miles (2.0 kilometers) using multimode fiber optic cable. The unit is enclosed in a rugged

Serial to Fiber Converters

Reliable Long-Distance Communication with Serial-to-Fiber Converters Westward Sales provides rugged serial-to-fiber converters that extend RS-232, RS-485,

RS232 / RS485 / RS422 to Fiber Optic Converters

Rugged industrial-grade RS232 / RS485 / RS422 to fiber optic converter. Transmits serial data (RS232, RS485 or RS422) over long distances through fiber links (multi-mode: 3 miles or 5 km). Standards

USB Serial Optical Converter | Coptonix

The adaptor allows the connection of devices with optical serial interfaces using optical fiber with a PC/laptop through USB. The adaptor appears as virtual COM port in the device manager. Standard

USB to Serial Adapter

8.3ft (2.5m) 1-Port FTDI USB to Serial RS232 Adapter Cable with Optical Isolation, USB to RS232 Adapter - TAA

Serial to Fiber Media Converters | Perle

Emi, RFI and Transient Surge ImmunityPSI-MOS Serial to Fiber Media Converter ApplicationsHigh Quality Features and SupportThe PSI-MOS Serial to Fiber Converters are equipped with comprehensive diagnostic functions to increase system availability, simplify start-up and permanently monitor the optical transmission quality. This allows for more efficient troubleshooting and less on-site maintenance. These cost and time saving features, along with free worldwide technical...See more on perle CommFront

RS232 / RS485 / RS422 to Fiber Optic Converters - CommFront

Our rugged, industrial-grade, point-to-point RS232 / RS485 / RS422 serial to fiber optic converters work in pairs to extend serial signals (RS232, RS485, RS422, and TTL) over long distance.

RS232 / RS485 / RS422 to Single Mode Fiber Optic Converter

The SER-FIBER-SM has a 8 position terminal block for the serial port, and either an ST type or SC type connector for the fiber optic link. The unit extends the maximum distance of any

Serial to Fiber Converter, RS485 and RS232 over Fiber

Thor Fiber now has a line of multi-serial (RS-232 / RS-485 / RS-422) to fiber optic converters that transmit a serial protocol over fiber. Fiber transmission extends a serial signal up to 120km. These

Serial to Fiber Converter, RS485 and RS232 over Fiber

Thor Fiber Multi-Serial (RS-232 / RS-485) + 2 x RJ45 Fiber Optic Converters that transmit a serial protocol over fiber with 2 ports for Ethernet transport. These units support single-mode and come

RS232 / RS422 / RS485 to Fiber Optic Converter and Media

Fiber Optic Media Converters SerialComm's certified commercial or industrial Ethernet fiber optic converter or serial to fiber optic converter products include free worldwide ship from NJ and CA /

Serial to Fiber Media Converters | Perle

PSI-MOS Serial to Fiber Converters transparently connect RS232, RS422 and RS485 devices to fiber optic cable. By transmitting data over optical fiber, these serial media converters provide an

Serial to Fiber Optic Converters

RS232 RS485 RS422 TTL USB Serial Fiber Optic Converters, Ethernet Media Converters, 5-year warranty, 30-day money back satisfaction guarantee! Same

One Pair Serial to Fiber Converter RS232 RS485 RS422 Optic

Data Port: RS-232/RS-422/RS-485 phoenix terminal serial port Product information Dimension: 110mm*104mm*28mm Weight: 0.75kg/pair Outlook: Black and rugged case Packing: One pair fiber optic modem, two USA power adapters, and a user manual

Semiconductor & System Solutions | Infineon Technologies

Power adapters and chargers Complete system solutions for smart TVs Mobile device and smartphone solutions Semiconductor solutions for home entertainment applications Smart conference systems

Serial Data Fiber Optic Converter | RLH Industries, Inc.

The RLH Serial Data Fiber Optic Converter transmits RS-232/422/485 serial data over fiber optic cable. It transmits simultaneously to each serial port, providing the option to interface between one of three

Industrial Serial to Fiber Converter RS232 RS485

ZP-SC Series is an industrial-grade RS232/RS485/RS422 to fiber optic converter which extends the signal up to 20Km on single-mode SC fiber . It can be widely

Optical Fiber Serial Device Server | Serial Port to Fiber Optic | RS485 ...

ZLAN9153 Optical fiber serial port server is an industrial serial port - optical fiber conversion equipment developed by Shanghai ZLAN Information Technology Co., LTD.

Contact Us

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