

485 bus to fiber optic cable



Overview

Up to ten (10) Serial to Fiber Converters can be grouped together using the TBUS DIN Rail bus system for voltage and data. This allows the serial converter to operate as a star coupler, taking the serial data input signal and distributing it to a. Up to ten (10) Serial to Fiber Converters can be grouped together using the TBUS DIN Rail bus system for voltage and data. This allows the serial converter to operate as a star coupler, taking the serial data input signal and distributing it to all Fiber optic output ports. RS485 Serial transmission is commonly limited to 100 kbps over a distance of only 1200 meters (4000 feet). Using the FO 850 E Serial to Fiber Converter you can extend your serial data transmission up to 4.2km (2.6 miles). The result is that any two pieces of asynchronous serial equipment, located miles apart, can communicate at half duplex over fib. Another advantage of the FO 850 E fiber optic transmission system is the electrically isolated connection of devices. Electromagnetic interference (EMI) is a common phenomenon in typical environments like industrial plants, warehouses and factory floors. This interference can cause corruption of data over RS485 or copper-based Ethernet links. Data. The FO 850 E operates at 850 nm wavelength, using a separate LED emitter and photo-detector on ST type connectors. Almost any multimode glass fiber size can be used including 50/125 m, 62.5/125 m, and 200/230 m. Calculating the power budget is critically important with planning the fiber optic link. The optical power budget is the amount of light required to transmit data successfully over distance through a fiber-optic connection. The amount of light energy available within the setup will dictate the length of the fiber optic cable run between serial medi.



Article Content

May 20, 2026

Profibus to fiber optic converters, DL485-PB/DL485-PBR

The DL485-PB systems stand out as robust solutions connecting ProfiBus field bus networks via fiber optics, introducing innovative capabilities for diverse network architectures. These converters enable

Oct 05, 2025

What Is an RS485 to Fiber Optic Converter and How Does It Work?

An RS485 to fiber optic converter converts RS485 electrical signals into optical signals, allowing data transmission over long distances with immunity to electromagnetic interference. This

Feb 21, 2026

Modbus to fiber optic converters, DL485-MBR

The DL485-MBR fiber optic systems are engineered to ensure secure optical data transfer within MODBUS networks, supporting data speeds of up to 115.2 KBit/s.

Aug 11, 2025

Gateway / Multi-drop Fibres Optic Converter

Benefits: Resistant to harsh environmental specifications Designed for serious use
Very easy to configure Low cost Rail din mountable Isolation between Power

Dec 28, 2025

RS-485 Cable

RS-485 Cable The RS-485 Belden cables are the reference choice for automation systems, including Modbus, BACnet MS/TP, CANopen, or DMX512. Low

Jun 02, 2026

Serial RS-485, RS-422, RS-232 to Fiber Media Converters

This device is Point to Point Bi-Directional Fiber Optic Converter that transmits RS-232, RS-485 and RS-422 a serial protocol over fiber. This unit converts electrical

Dec 09, 2025

Two Ways of RS485 to Fiber Optic

2. 485 two ways to transfer fiber. There are two types of optical fiber, namely the protocol type and the level type, respectively to ZLAN9153 and ZLAN9163. 1)

Mar 10, 2026

RS-485/Modbus Fiber Optic Converter

RS-485 Modbus Fiber Optic Converter Point to point/Multi-drop Bus/Self-healing Ring Fiber Links The RS-485 Fiber Optic Converter data series uses the most

Jul 06, 2025

RS485 4-wire to multimode converter, DL485-4W | EKS

The DL485-4W is a RS485 4-wire to multimode fiber optic converter for point-to-point connections. For adapter you can make the choice between ST, SC or SC-BIDI.

Apr 19, 2026

MODBUS-Plus to Singlemode converter, DL485-MBP | EKS

The fiber optic systems DL485-MBP connect a Modbus-Plus interface to optical field bus networks. With the help of this innovative system optical bus, star, tree and mixed structures are possible. LEDs and

May 17, 2026

RS485 to RJ45 via fibre optic

I have a MODBUS RTU(RS485) at one end and TCP/IP (RJ45) at another end and I want to connect via Fibre Optic. Can a media converter convert directly from the fibre optic to RJ45 or I

Jan 05, 2026

Serial to Fiber Converter | PSI-MOS-R485/FO 1300 E | Perle

Star structures You can network RS-485 2-wire devices within a star structure. Depending on the number of star lines required, several PSI-MOS-RS485W2/FO 1300 E Serial to Fiber Converters are

Aug 17, 2025

MODBUS Redundant to multimode converter, DL485

The DL-485-MBR is a MODBUS to multimode fiber optic converter to create a redundant MODBUS network. As adapter you can make a selection between ST,

Jan 29, 2026

How to Use Universal RS-485 Interface Asynchronous Fiber Modem ...

Introduction The Universal RS-485 Interface Asynchronous Fiber Modem is a robust communication device designed to extend RS-485 signals over long distances using fiber optic cables. It converts

May 07, 2026

RS-485 to Singlemode Fiber Optic Converter | rdc485SFO

Our RS-485 to Singlemode Fiber Optic Converter (rdc485SFO) robustly connects your panel mounted RS-485 devices to fiber optic cables up to 20km long, providing the ultimate in isolation, surge, and

Sep 26, 2025

Modbus-Plus to fiber optic converters, DL485-MBP/DL485-MBPR

The DL485-MBP modules establish the connection between a MODBUS-Plus interface and fiber optic fieldbus networks, thus offering innovative possibilities for the communication structure. This optical

Mar 15, 2026

F485CT: Fiber-Optic <=> RS485 Converter

User connections are the two fiber ports, a 3 position removable screw terminal strip for the RS485 port, and a terminal strip and barrel connector for the input power.

Nov 22, 2025

Serial to Fiber Converter | PSI-MOS-RS485/FO 850 E | Perle

Transmit each serial signal out over 10 fiber optic lines Up to ten (10) Serial to Fiber Converters can be grouped together using the TBUS DIN Rail bus system for voltage and data. This allows the serial

Nov 26, 2025

RS485 to fiber optic converters, DL485 and DL485-4W

The DL485 and DL485-4W fiber optic systems serve as vital components for connecting field bus systems with RS485 interfaces, enabling safe and reliable

May 31, 2026

RS-485 to Fiber Optic Converter

RS-485 Multi-Drop Bus Fiber Optic converter The RS-485/422 Multi-Drop Bus Fiber Optic Modem series products provide an optical bus network for RS-232, RS-422 or RS-485 data interfaces over a pair of

Apr 06, 2026

RS-485/Modbus Fiber Optic Converter

It supports transmission of one bi-directional data channel over one multimode or singlemode optical fiber. RS232, RS422 and RS485 (2 wire & 4 wire) standards

Nov 04, 2025

RS485 2-wire to POF or HCS converter, DL485

The DL485 is a RS485 2-wire to POF (Plastic Optical Fiber) or HCS (Hard Clad Silica) fiber optic converter for point-to-point connections with ST adapter.

Aug 03, 2025

What Is an RS485 to Fiber Optic Converter and How Does It Work?

An RS485 to fiber optic converter is a communication device that translates RS485 serial signals into optical signals for transmission through fiber optic cables.

Dec 03, 2025

Serial-to-Fiber Converters | Moxa

Moxa's industrial-grade serial-to-fiber optic converters can convert RS-232/422/485 to optical fiber, which provides users with an easy and reliable way to

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.moletenare-ew.co.za>

Email: info@moletenare-ew.co.za

Phone: +86 138 1658 3346

Address: Ningbo, China

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