

Fiber to 485 switch



Article Overview

Fiber to RS-485 converters and switches allow RS-485 serial devices to communicate over long distances via fiber optics, providing electrical isolation and industrial reliability.

Overview

A fiber to RS-485 switch or converter is a device that converts RS-485 serial signals into optical signals for transmission over fiber, and vice versa. This enables long-distance communication, immunity to electromagnetic interference, and electrical isolation between devices, which is critical in industrial environments .

Key Types and Features

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Serial-to-Fiber Converters

- Convert RS-232, RS-422, or RS-485 signals to fiber optic signals.
- Support multi-mode (up to 5 km / 3 miles) and single-mode (up to 40 km / 25 miles) fiber transmission .
- Rugged industrial design, often with wide operating temperature ranges (-40°C to 85°C) and durable housings .
- Examples: Moxa industrial-grade converters, CommFront RS-485 to fiber converters

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Integrated Fiber Switches with RS-485 Ports...

Article Content

Nov 16, 2025

RS485 to Ethernet Converter | Transmit RS485 Data over Ethernet

RS485 to Ethernet Converters connect devices with RS485 serial interfaces to a LAN for transmitting serial data over wired or

May 26, 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.

Aug 21, 2025

What is RS-485 & How to Use MAX485 with Arduino for Reliable Long ...

Learn about the industry-favorite RS-485 (EIA-485) wired communication interface standard and learn how to

Apr 11, 2026

Two Ways of RS485 to Fiber Optic

1) There is no single optical fiber left for 485 optical fiber use, or a number of 485 host-slave systems need to pair-connection through

Jun 23, 2026

RS485 Serial to Fiber Optic Media Converters by S.I. Tech

SI Tech manufactures RS485 to fiber modems (media converters) for networking applications.

Jun 03, 2026

MDS 9124V 64-Gbps 24-Port Fibre Channel Switch Data Sheet

Cisco MDS 9124V 64-Gbps 24-Port Fibre Channel switch brings the latest high-performance, low-latency Fibre Channel

Feb 27, 2026

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

May 01, 2026

Point-to-Point Fibre Converter RS-422/485

The ODW-730-F1 has been designed to allow RS-422/485 protocols to be transmitted point-to-point over a fibre optic link. The

Sep 11, 2025

TCF-142 Series

The TCF-142 media converters are equipped with a multiple interface circuit that can handle RS-232 or RS-422/485 serial interfaces

May 03, 2026

The difference between Serial to Ethernet Adapter and optical fiber switch

Optical fiber switches pay more attention to transmission speed and capacity. Since optical fiber is used as the

Nov 22, 2025

SEL-2820 Multimode Fiber-Optic EIA-485 Transceivers

Easily Applied Implements fiber-optic links between two- and four-wire EIA-485 network segments. Set operating modes via control

Dec 23, 2025

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

Mar 12, 2026

RS232 / RS485 / RS422 to Fiber Optic Converters

Our rugged, industrial-grade, point-to-point RS232 / RS485 / RS422 serial to fiber optic converters work in pairs to extend serial

Apr 01, 2026

RS232/RS485 to Fiber Converters | Industrial Optic Links

Industrial RS-232/485/422 to optic fiber converter, single-mode 20 km, 9-36VDC, SC/ST optional. Model277 is one kind can offer RS

Jul 05, 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

Jan 06, 2026

Point-to-Point Fibre Converter RS-422/485

The switch selectable termination circuit saves the need for external terminating

Jul 24, 2026

PSI-MOS-RS485W2/FO 850 E

The floating switch contact is activated when the signal output on the fiber optic

Jul 28, 2025

ICF-1150 Series

The ICF-1150 serial-to-fiber converters transfer RS-232/RS-422/RS-485 signals to optical fiber ports to enhance transmission

Dec 04, 2025

Managed Serial RS422/RS485 to Fiber Media Converter

A built-in remote Fiber Loopback DIP-switch provides easy validation of the entire fiber segment without interrupting fiber operations.

Nov 06, 2025

Serial-to-Fiber Converters

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

Dec 24, 2025

Industrial Serial to Fibre optic converters | Amplicon

Serial to fibre optic converters allow RS232, RS422 or RS485 signals to be transmitted across a fibre-optic link. Plastic fibre provides

Dec 11, 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

Jun 05, 2026

RS-485/Modbus Fiber Optic Converter

It supports transmission of one bi-directional data channel over one multimode or singlemode optical fiber.

Jul 26, 2025

PSI-MOS-RS485W2/FO 850 T

FO converter with integrated optical diagnostics, alarm contact, for RS-485 2-wire

Dec 28, 2025

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

Sep 22, 2025

RS485 to Ethernet Converter

RS485 to Ethernet Converter, Easy-to-use, High-speed, Low-power, High-stability, Upgradable * This module does not support

Jan 23, 2026

Estink SFP Ethernet Fiber Optic Switch, 1000m Ethernet Fiber Optic ...

Product description SFP Ethernet Fiber Optic Switch, 1000m Ethernet Fiber Optic Transceiver, 4 Optical Ports 2

May 12, 2026

RS485 Serial to Fiber Optic Media Converters by S.I. Tech

RS-485 to fiber optic converters are used in many multipoint applications where one computer controls many different devices.

Contact Us

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