



InLine 33307D cable gender changer



Model: 33307D

Manufacturer: INLINE

EAN: 4043718353156

Product Code: 1552757

R1,494

Electrically isolated USB connection for reliable RS485 communication

Electrical isolation for greater operational reliability: The integrated isolation up to 2.5 kV protects connected devices from potential differences, ground loops and electrical interference.

Reliable RS485 communication: The FTDI FT232RNL chipset enables stable data transmission via a virtual COM port and supports baud rates from 300 to 512,000 bps.

Quick commissioning: Automatic direction switching is handled entirely by the hardware. Configuration via RTS/CTS signals or software commands is not required.

Comprehensive protection functions: Integrated overvoltage, lightning, ESD and USB protection enhances operational safety and protects connected devices from electrical interference.

Flexible deployment in existing RS485 networks: The integrated 120 Ω terminating resistor and the screw terminal enable easy integration into existing bus systems.

The product information provided is for reference purposes only. Technical specifications, photos, descriptions and prices may change without prior notice. The manufacturer and seller are not responsible for possible data discrepancies or typographical errors. We recommend checking the current information before purchasing.

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The InLine® USB to Serial RS485 Adapter with isolator connects computers with a USB-A interface to devices and networks based on the RS485 standard. Communication takes place via a virtual COM port and is suitable for applications in industrial automation, building automation, measurement and control technology, energy monitoring, and Modbus RTU systems.

The integrated galvanic isolation, with an isolation voltage of up to 2.5 kV, prevents a direct electrical connection between the USB and RS485 sides. This reduces potential differences, ground loops and electrical interference. This enhances operational reliability, particularly in demanding installations.

The adapter uses the FTDI FT232RNL chipset and supports baud rates from 300 to 512,000 b/s. Automatic direction switching in half-duplex mode is handled entirely by the hardware. No additional settings via RTS/CTS signals or software are required.

In addition, overvoltage, lightning and ESD protection functions, as well as a USB PTC fuse, ensure reliable operation. The integrated 120 Ω terminating resistor supports stable signal transmission over longer RS485 cables.

Product type: USB to RS485 serial adapter with isolator

Chipset: FTDI FT232RNL

Host connection: USB-A

Device connection: RS485 screw terminal

Pin configuration: GND, A, B, GND (ground, RS485+, RS485-, additional ground)

Baud rate: 300 to 512,000 bps

Transmission mode: half-duplex with automatic direction switching

Maximum RS485 cable length: up to approx. 1.2 km

Maximum USB cable length: up to approx. 5 m

Bus participants: up to 32 devices per bus segment (an RS485 repeater is recommended for larger networks)

Termination resistance: integrated 120 Ω termination resistor

Signal isolation: galvanic isolation

Isolation voltage: up to 2.5 kV galvanic isolation

Isolated RS485 transceiver: integrated

Lightning protection: 600 W surge and lightning protection

ESD protection: up to 15 kV

USB protection: 200 mA PTC fuse, ESD protection

RS485 protection: TVS diode, protective diodes, overvoltage protection

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Status indicators: PWR, TXD, RXD (power, transmit, receive)

Supported operating systems: Windows XP / 7 / 8 / 8.1 / 10 / 11, Linux, macOS, Android

Operating temperature: -40 °C to +85 °C

Humidity: 5 % to 95 % RH, non-condensing

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