

InLine 33307E cable gender changer



Model: 33307E

Manufacturer: INLINE

EAN: 4043718353163

Product Code: 1545663

R1,154

USB to Serial RS485 Adapter with Lightning Protection for Industrial Communication

High operational reliability: The integrated lightning, overvoltage and ESD protection safeguards the RS485 interface against voltage spikes and electrostatic discharges. This makes the adapter suitable for installations with heightened requirements for immunity to interference.

Reliable RS485 communication: The FTDI FT232RNL chipset enables stable USB-to-RS485 communication via a virtual COM port and supports baud rates from 300 to 512,000 b/s.

Easy commissioning: Automatic hardware-based direction switching handles the transition between transmission and reception in half-duplex mode without the need for additional software configuration or RTS/CTS control.

Suitable for long bus cables: The integrated 120 Ω terminating resistor reduces signal reflections. RS485 supports cable lengths of up to approx. 1.2 km and up to 32 devices per bus segment.

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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Flexible system integration: The USB-A port, the 4-pin RS485 screw terminal and support for Windows, Linux, macOS and Android enable versatile use in a wide range of automation applications.

The InLine® USB to Serial RS485 Adapter with lightning protection reliably connects computers with a USB-A port to RS485 networks and serial devices. It is suitable for applications in industrial automation, building automation, measurement and control technology, energy monitoring, and Modbus RTU communication.

The high-quality FTDI FT232RNL chipset ensures stable data transmission via a virtual COM port. Automatic direction switching is handled entirely by the hardware, simplifying commissioning as no additional software configuration is required.

The integrated protection circuit, compliant with IEC 61000-4-5, protects the RS485 interface against overvoltages, indirect lightning strikes and electrostatic discharges. This is supplemented by protective diodes, a resettable fuse, a 200 mA PTC fuse on the USB side, and a PGND connection – galvanically isolated from the signal ground – for cable shielding or protective earth connections. With baud rates of up to 512,000 b/s, cable lengths of up to approx. 1.2 km and an integrated 120 Ω terminating resistor, the adapter is suitable for reliable RS485 communication even in demanding installations.

Product type: USB to RS485 serial adapter with lightning protection

Chipset: FTDI FT232RNL

Host connector: USB-A

Device connector: RS485 screw terminal

Pin assignment: GND, A, B, PGND (ground, RS485+, RS485–, protective earth)

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 resistor: integrated 120 Ω termination resistor

Lightning protection: 6 kV surge and lightning protection in accordance with IEC 61000-4-5

TVS protection: bidirectional TVS protection diode for RS485 A/B

ESD protection: ± 15 kV air discharge / ± 8 kV contact discharge

PGND connection: Protective earth (PGND) connection, galvanically isolated from the signal ground

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USB protection: 200 mA PTC fuse, ESD protection

RS485 protection: Protective diodes, overvoltage protection, resettable fuse

Status indicators: PWR, TXD, RXD (Power, Transmit, Receive)

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

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

Relative humidity: 5 % to 95 % RH, non-condensing

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