

## USB to RS485 Compact

Part no.: US485COM



- Port powered from USB port
- Compact design
- Compatible with most operating systems
- FTDI FT232BL processor
- Electrostatic protection
- Screw terminal interface

This is a compact version of the USB to RS485 converter. It has the converter circuitry built directly into the USB housing which makes it ideal for applications with limited space or if you like to have just the communication wires available without the converter part.

The processor chip is a FT232BL from FTDI so the reliability and performance of this converter is guaranteed with all newer operating systems. The USB housing which encloses the converter circuitry is made of rubberized half-transparent black plastic which makes it a very strong and durable converter. Indication LED lights for power, TX and RX makes it easy to see when data is present and is an advantage when troubleshooting.

Power to the converter is drawn from the USB port so no external power supply is required.

The serial side of this USB to RS485 converter is terminated in a terminal header with 3 terminals, one each for TX, RX and GND. There is also an optional 5V power wire which can be used to power your device.

This USB to RS485 converter has built-in electrostatic protecting which provides effective protection against common static electricity and other high-voltage spikes however if you need protection against high voltage surges and ground loops or need a converter for industrial use we recommend an optical isolated USB to RS485 converter.

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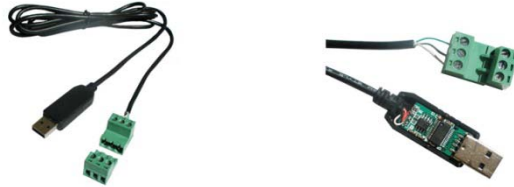
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## Specifications

SPECIFICATIONS	
Model number	US485COM
Recommended operating system	<ul style="list-style-type: none"> <li>Windows 10 32/64, Windows 8 32/64, Windows 7 32/64, Vista 32/64, XP 32/64, Server 2003/8R2 32/64, 2000, ME, 98Se</li> <li>Linux 2.40 or higher</li> <li>Mac OS 9, OS X</li> </ul>
Chipset	FT232RL
Serial driver	SP485EE
Baud rate	300-1Mbps, auto detection
Power	Port powered from USB port
RS485 interface	Stripped wires + detachable screw terminal header
USB interface	Male type A
Cable length	5 feet
Parity	None, Odd, Even, Mark, Space
Data bits	7, 8
Stop Bits	1, 2
Indication LEDs	TX, RX, Power, COM and 5VDC limit
Buffer size	128/385 Bytes
Serial signals	RS485: D-, D+ GND (half duplex)
USB signals	VCC, DATA+, DATA-, GND, FG
Flow control	Automatic. No IRQ Conflicts, no IRQs, IO or DMA required
Current draw	Static less than 80mA, dynamic average consumption less than 150mA
ESD electrostatic protection	15KV / 600W/ms
Operating humidity	5% To 95% - No Condensation
Operating Temp.	-40 to 85C
Dimensions	50 x 8 x 18mm (USB part only)
Certifications	CE, FCC, RoHS
Warranty	2-year Limited Warranty
ECCN	4A994.a
Schedule B	8471.80.1000
HTS	8517.18.0050

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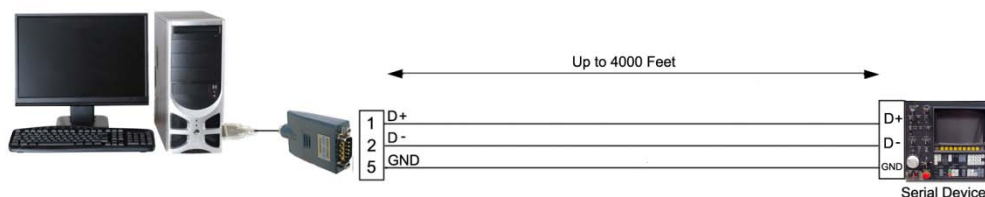
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## Connection table

Wire	RS485
Black	GND
Green	A +
White	B -
Red	5VDC

Connection example: extending communication distance with RS485



**Please download drivers and driver installation instructions for this product at:**

**[www.Nordfield.com](http://www.Nordfield.com)**

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