

USB to RS485/422 Converter

Part no.: MWE820A



- Port powered from USB port
- Light duty commercial grade
- RS485 and RS422 capabilities
- Silicon Labs CP2102 processor
- Electrostatic protection
- USB Plug and Play
- Two feet USB extension cable included

This USB to RS485 / RS422 converter is similar to our model XS885, the main difference is that the serial processor chip in this converter is a Silicon Labs CP2102 converter chip whereas the XS885 has a FTDI chip. Both processor chips are of equally high quality and performance however some customers prefer one over the other due to slight differences in the driver software features or application compatibility.

Another difference between this converter and the XS885 is that this converter has a light duty housing, made of fully transparent plastic which makes it ideal for laboratory, office and most consumer applications and projects.

As with the FTDI drivers, the Silicon Labs drivers also create a virtual COM port in your operating system's Device Manager which can be used as if it was a standard built-in serial COM port. The software drivers are compatible with all versions of Windows, Linux and Mac.

This converter is also electrically protected against static electricity, high voltage spikes and other high voltage spikes which potentially may damage your equipment and cause data loss or communications errors. The electrostatic protection is achieved by four high-speed TVS's (Transient Voltage Suppressors), one for each data line.

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105 Stations West Drive
Sedona, AZ 86336, USA
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Specifications

SPECIFICATIONS	
Model number	MWE820A
Recommended operating system	<ul style="list-style-type: none"> Windows 10 32/64-bit, Windows 8 32/64-bit, Windows 7 32/64-bit, Server 2008 32/64, Server 2008 R2, Vista 32/64-bit , XP, 2000, ME, 98 Linux Mac OS 8, OS 9, OS X
Baud rate	300-921.600bps, auto detection
Power	Port powered from USB port
RS232 interface	Terminal header
USB interface	Male type A
Chipset	Silicon Labs CP2102
Output voltage	4.7VDC (between D+ and GND)
Parity	None, Odd, Even, Mark, Space
Data bits	7, 8
Stop Bits	1, 2
Flow Control	None, Xon/Xoff, Hardware
Indication LEDs	TX, RX and Power
Buffer size	128/385 Bytes
Serial signals	RS422: TX-, TX+, RX-, RX+, GND (full duplex) 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	Less than 100mA
ESD electrostatic protection	15KV / 600W/ms
Compliance	EIA/TIA RS-232C, USB: v1.0, 1.1, 2.0
Operating humidity	5% To 95% - No Condensation
Operating Temp.	-20° to 70°C
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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Connection table

Screw Terminal	RS485	RS422
1	D+	TX+
2	D-	TX-
3		RX+
4		RX-
5	GND	GND

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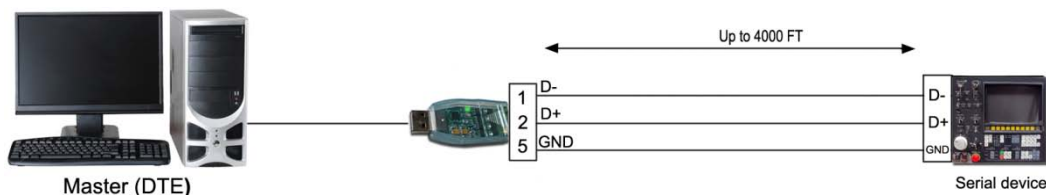
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Connection example: extending communication distance with RS485



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

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