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E L E C T R O N I C S

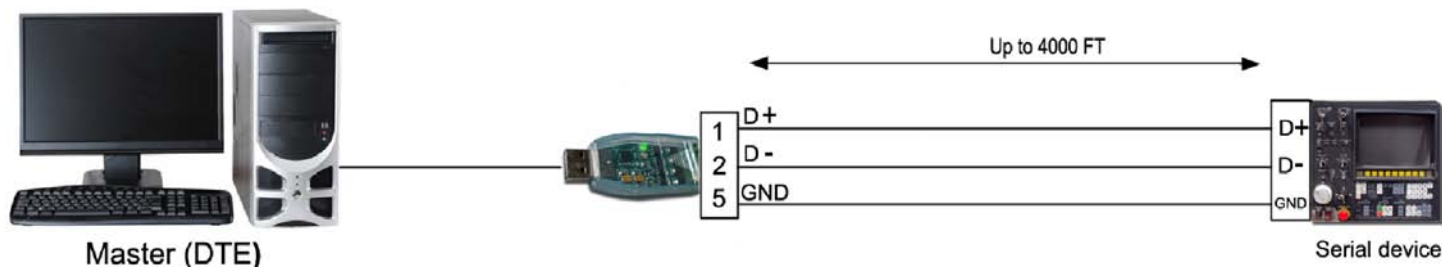USB to RS485/422 Mini Converter
Part no. MWE820A

This surge and static protected USB to RS-485 / RS-422 converter is powered from the USB port so there is no need for an external power supply.
It is designed around the high performance and very reliable CP2102 chip from Silicon Labs, so it is compatible with all versions of Windows, Mac and Linux.

This particular USB to RS-485 / USB to RS-422 adapter is suitable for most applications, including industrial, commercial and any general office computer device. It is a bi-directional, (meaning it communicates in both directions), reliable and cost-effective converter that easily lets you connect any RS-485 or RS-422 device directly to your computer's USB port, efficiently converting USB signals to half-duplex RS-485 or full-duplex RS-422 and vice versa.

The RS-485 / RS-422 end is a standard 4-screw terminal header for easy connection of single wires.
Automatic send data control is enabled by default so no external flow or handshake control is needed.

Application example: Extending communication distance with RS485

Master (DTE)

Up to 4000 FT

Serial device

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

Please download drivers for this product at:

www.USconverters.com

To access technical support, please visit the U.S. Converters website at:
www.USconverters.com
Here you will find:

- Latest drivers and updates for download
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- Configuration support
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Feel free to contact our technical support team at mail@usconverters.com with any issues.

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SPECIFICATIONS	
Part number	MWE820A
Operating system	• Windows 10, Windows 8.1 / 8 (32/64-bit), Windows 7 (32/64-bit), Vista (32/64-bit), XP 32/64, Server 2003, 2000, ME, 98Se (all WHQL compliant) • Linux 2.6.x, 3.x.x • Mac OS X 10.4, 10.5, 10.6, 10.7 and 10.8. • Windows CE 5.0, 6.0 • Android 4.2
Processor	Silicon Labs CP2102
RS485 output power	4.7VDC (between D+ and GND)
RS485 / RS422 Interface	Screw terminal block
Fail-safe bias resistors	Yes
Signals	RS485, 2-wire half duplex: D+, D-, GND RS422, 4-wire full duplex: TX+, TX-, RX+, RX-, GND
Compatible with	Modbus RTU/ASCII, BACnet
Bias resistors	Yes
USB interface	Standard Type B Female
Indication LEDs	Power, Send and Receive
Baud rate	300 to 921600bps
Parity	None, Odd, Even, Mark, Space
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
TX / RX buffer size	640 byte transmit buffer, 576 byte receive buffer
Flow Control	Hardware or Xon / Xoff
COM port accessible by	Included virtual COM port drivers
Special features	- Event character support - Line break transmission - Automatic Send Control
Electrostatic (ESD) protection	15KV/ 600W/ms high voltage protection
Current draw	Static: less than 80mA. Dynamic average: less than 150mA
Dimensions	65 x 22 x 12mm
Interface compliance	USB1.1, 2.0, 3.0, EIA/TIA RS-232
Regulatory compliance	FCC, CE and RoHS
Working temp	-20 to 70C
ECCN	4A994.a
Schedule B	8471.80.1000
HTS	8517.18.0050