NordField
Electronics

USB to RS485/422 Converter - Mini
Part no.: XS885

- Port powered from USB port
- Light duty industrial grade
- RS485 and RS422 capabilities
- FTDIFT232RL processor
- Electrostatic protection
- Indication lights for Power, RX and TX
- Compatible with Windows, Linux and Mac

As a converter made in particular for light industrial and commercial projects and applications requiring a stronger than standard converter this USB to RS485 / RS422 converter is made of semi-transparent hardened ABS plastic, so it won't break easily. The wire terminals are reinforced and slightly larger than standard to make it stronger and the operating temperature is from -40°C to +85°C.

As most of our other converters this converter is 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.

Power for the converter is provided by the USB port so no external power supply is needed. The internal circuitry is designed around the high performance FT232RL serial processor chip from FTDI.

A very solid design which is compatible with all versions of Windows, Linux and Mac.

Once the drivers are installed a virtual COM port will show up in Device Manager, this port can be used as if it was a regular built-in COM port. The drivers software will allow you to adjust several port settings such as COM port number, baud rate, data bits and latencies. Automatic Send Control is enabled so no external hand shake control or flow control is required.

This USB to RS485 / RS422 converter will automatically sense if RS485 or RS422 is connected to the serial interface. Simply connect your wires and its ready to use; no need to fiddle with jumpers or software settings. It can be used with up to 32 nodes in point-to-

NORDFIELD
Specialists in serial communication. With over 15 years of experience in the field we can solve most serial problems.

PRODUCTS
Large selection of Serial RS232, RS485 and RS422 converters, USB to Serial adapters, Isolators, Ethernet to Serial converters, Serial Repeaters, Wireless Serial modules, Serial Bluetooth adapters and Serial Port Cards.
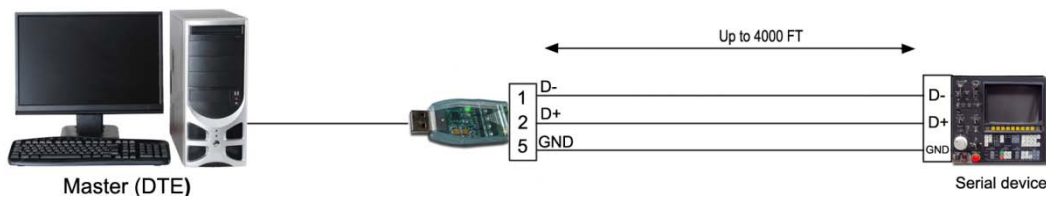
TECHNICAL SUPPORT
To access technical support, please visit www.NordField.com where you will find:
- Latest drivers and updates
- Technical tips
- Documentation
- Configuration support
- and much more…

Feel free to contact our technical support team at mail@usconverters.com

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SPECIFICATIONS	
Model number	XS885
Recommended operating system	• 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 • Linux • Mac OS 8, OS 9, OS X • Windows CE.NET (Version 4.2 and greater) • Android
Baud rate	300-921.600bps, auto detection
Power	Port powered from USB port
RS232 interface	Reinforced terminal header
USB interface	Male type A
Chipset	FTDI FT232RL
Output voltage	3.60VCD (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 than100mA
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.	-40° to 85°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

Connection example: extending communication distance with RS485

Master (DTE)

Up to 4000 FT

D-
D+
GND

Serial device

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

www.Nordfield.com