USB to RS485/422 Converter

Part no.: XS850

- Ideal for older operating systems
- RS485 and RS422 capabilities
- Port powered from USB port
- Prolific processor
- Baud rates from 300bps to 921.600bps
- Surge / static electrical protection
- FCC, RoHS, CE compliant

If you need a USB to RS485 / RS422 converter for older operating systems and legacy devices then this converters is suitable. It is designed around the low-cost processor chip PL-2303HX from Prolific which is a good all-round processor ideal for many low-performance applications, simple point-to-point setups and devices however we do not recommend using this coverter for newer operating systems (Windows Vista, 7, Mac OS-X), complex and industrial applications.

The XS850 is a bi-directional converter, it communicates in both directions, it has both RS485 and RS422 capabilities and is powered through the USB port so no external power supply is required.

The serial connector is a standard DB9 male connector and a screw terminal header for easy connection of single wires is included with each converter.

The drivers that comes with this USB to RS485 / RS422 converter are standard drivers compatible with older operating systems (Windows 95, 98, 2000) and simple point-to-point networks, so again: WE DO NOT RECOMMEND USING THIS CONVERTER WITH NEWER OPERATING SYSTEMS OR COMPLEX DEVICES.

NordField
ELECTRONICS

Specifications

SPECIFICATIONS	
Model number	XS850
Recommended operating system	• Windows 98, ME, XP 32-bit • Linux ver 2.4 or older • Mac OS 8 For newer operating systems please see our selection of other USB to RS485 / RS422 converters
Baud rate	300-921.600bps, auto detection
Power	Port powered from USB port
RS485 / RS422 interface	DB9 male + optional screw terminal header
USB interface	Male type A
Cable length	3 feet (1 meter)
Chipset	PL-2303HX
Parity	None, Odd, Even, Mark, Space
Data bits	7, 8
Stop Bits	1, 2
Flow Control	None, Xon/Xoff, Hardware
Indication LEDs	No
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	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
Certifications	CE, FCC, RoHS
Warranty	2-year Limited Warranty
ECCN	4A994.a
Schedule B	8471.80.1000
HTS	8517.18.0050

Connection table

Pin no.	RS485 DB9 Male	RS422 DB9 Male	Terminal board
1	D+	TX+	T/R+
2	D-	TX-	T/R-
3		RX+	RX+
4		RX-	RX-
5	GND	GND	GND
6			
7			
8			
9			

DB9 Male
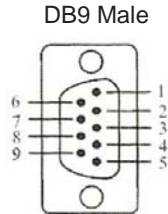
Connection example: extending communication distance with RS485

3 Feet

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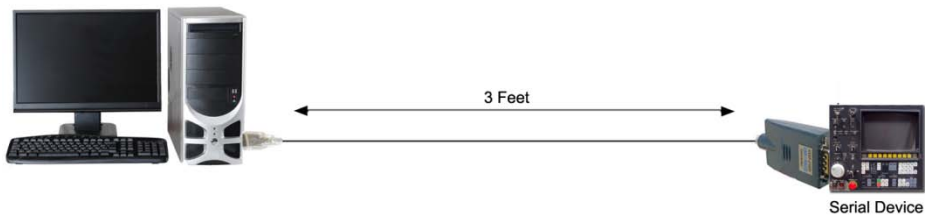
Please download drivers and driver installation instructions for this product at:

www.Nordfield.com