

Product sheet: USB485-STISO

Date: August 2011

Rev: 1.1

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**Electrically isolated USB - RS485 converter**

The USB485-STISO is a 2 wire RS485 adapter, that performs automatic receive / transmit switching, being default in receive mode, and when having to transmit data, it changes to transmit mode 1 bits time before the startbit, sending the data, and then falls back to receive mode 1 bit time after the last stopbit have been transmitted.

Unlike most converters, the USB485-STISO have a 2.5kV isolation barrier that ensures a high quality electrically separation between the PC and remote device, thus offering excellent protection of the PC if the remote device should fail.

Easy to install - easy to use.

Just connect it, install the drivers, and use it like any other comport in the PC.

**Comport specs**

Baudrates : 300, 600, 1200, 1800, 2400, 4800, 7200, 9600, 14400, 19200, 38400, 57600, 115200, 230400, 460800, 921600 Bps

Startbits : 1

Databits: 7, 8

Parity: None, even, odd, mark, space

Stopbits: 1, 2

Flowcontrol: Auto

Buffers: 128 bytes Rx and 256 bytes Tx fifo.

**RS485 specs**

- Powerful RS485, able to drive 256 nodes
- $\pm 15$  kV ESD protection on RS-485 pins
- Drive voltage (load 47 ohm~256 nodes):  $\pm 4$  V
- Drive voltage (load 100 ohm):  $\pm 5$  V
- Drive voltage (load 12k ohm~1 node):  $\pm 6$  V

- **Modbus capable**
- **USB 2.0 full speed device**
- **Virtual comport drivers**
- **Win-7, Win Vista and Win XP compatible**

**Hardware details**

- Connection: Screw terminals - 2.5mm space
- Visual indicators (Leds) : 2 (Rx and Tx)
- Speed : up to 1Mbps
- Isolation voltage: 2.500 Vrms / 1 minute
- Power : Powered from the PCs USB port
- Operating temperature : 0 to 70°C

**Mechanical details**

- Height : 14mm
- Width : 23mm
- Length : 66mm
- Weight : 15 gr

**Commercial details**

- Order : **USB485-STISO**
- Price(2011) : **EUR 65 @1**  
**EUR 58 @10**  
**EUR 45 @100**