

SI13U

USB → RS485 converter

Description



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BRIEF DESCRIPTION

The "**SI13U**" converter enables a connection from a USB interface to the 2-wire RS485 interface. The small dimensions of the housing and the low energy consumption of the **SI13U** enable both stationary use on PCs and mobile use on notebooks.

The **SI13U** is connected to the USB interface of the PC or notebook via an approx. 90 cm long cable. The RS485 interface is led out via a 9-pin DSub socket.

Optocouplers in the device ensure electrical isolation between the computer and peripherals. The RS485 level conversion is carried out with a driver module whose electrical properties comply with the EIA RS485 standard.

Three LEDs in the housing of the **SI13U** signal the operational readiness and data flow activity on the TxD and RxD lines.

The **SI13U** is powered via the USB cable from the PCs or notebooks. An external mains supply is therefore not required.

PIN ASSIGNMENT

9-pin DSUB socket, RS485 interface

PIN	Description
1	Not documented
2	Rx / Tx + (A)
3	Rx / Tx - (B)
4	Not documented
5	Not documented
6	Not documented
7	Not documented
8	Not documented
9	Not documented

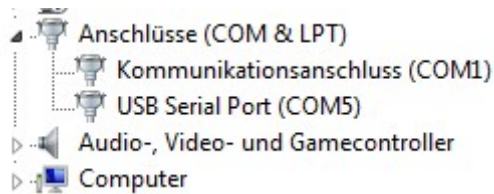
The **SI13U** has a permanently integrated terminating resistor of 120 ohms, which is mandatory for RS485 interfaces.

The user must ensure that the second terminating resistor is installed between RxTx+ and RxTx- at the other end of the RS485 line.

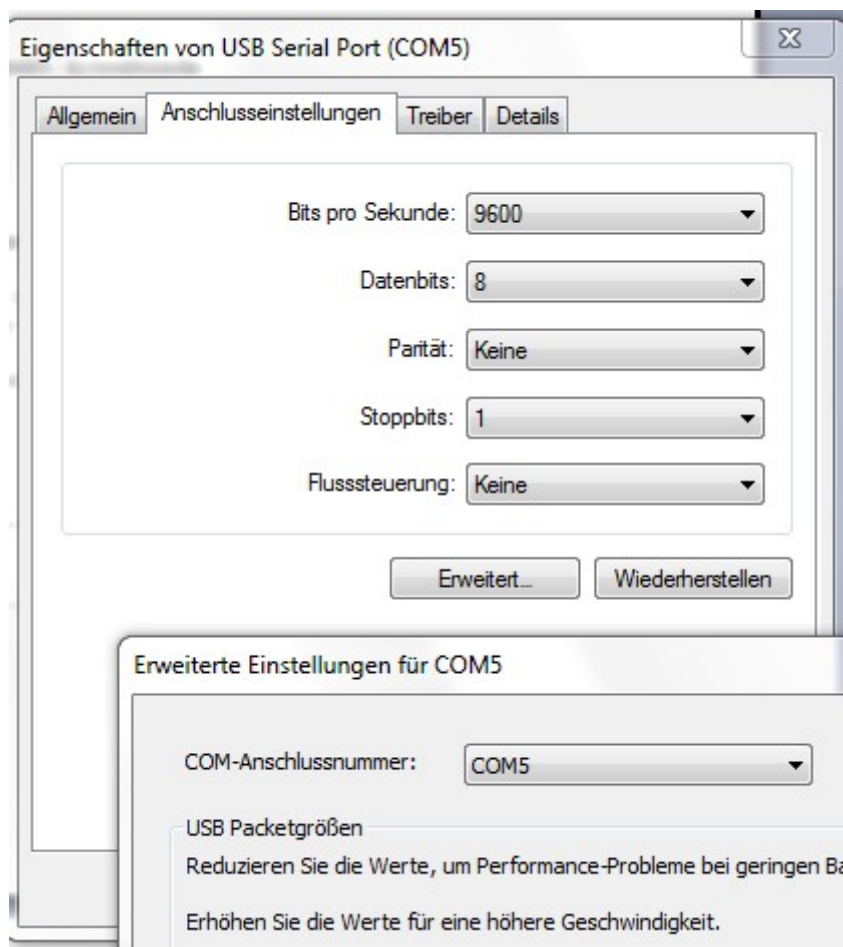
INSTALLATION / CONFIGURATION

The **SI3U** software is installed by simply starting the setup program contained on the CD supplied. No further user input is required.

The SI3u then appears as a USB serial port in the Windows device manager.



The port number can be selected there via the advanced port settings.



TECHNICAL DATA

RS-485:	2-wire max. transmission speed up to 115200 baud Maximum cable length 1000 m (at 9600 baud)
Power consumption:	450 mW (5 V / 90 mA)
Dimensions:	105 mm x 43 mm x 21 mm (without plug L x W x H)
Weight:	approx. 100 g (with USB cable)
Protection class:	IP50
Scope of delivery:	CD with USB driver and documentation
Supported Operating systems:	Windows Server 2008 R2 Windows 7 Windows 7 x64 Windows Server 2008 Windows Server 2008 x64 Windows Vista Windows Vista x64 Windows XP Windows XP x64 Windows 2000 Windows Server 2003 Windows Server 2003 x64