

# Manual

## RS232 T-Box



Release  
Typ

1.0  
85210

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**1. Function**

The W&T RS232 T-Box #85210 allows bi-directional interconnection of three devices with RS232 interfaces. The T-Box has 2 RS232 ports with DTE assigned (Port A and B), with their plug-in connectors attached directly to the T-Box housing, and one port with DCE assigned (Port C) which is connected to the T-Box with a 2-meter cable.

The T-Box supports a data line and a hardware handshake line in each direction at each port. Data can be transferred either between connections A and C or between connections B and C; a direct link between connections A and B is not possible. Data and handshake signals from Port C are transmitted to both Port A and Port B; the signals for Ports A and B are interconnected logically and output to Port C. The interface multiplier has no conflict protection, so the user must ensure that only one of the devices connected to Ports A and B is sending data at a time.

The T-Box gets its energy from the signal lines, so that no additional external power supply is needed. The T-Box consumes so little power that the devices can be cascaded without problem in order to obtain a greater number of inputs.

**2. Connectors**

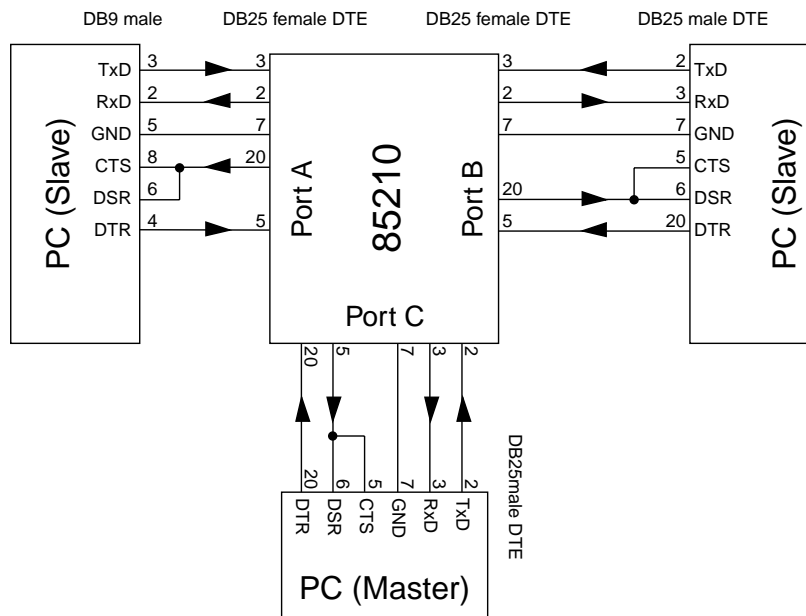
All three ports of the W&T RS232 T-Box 85210 use DB25 connectors. The connector pin assignments are shown in the table below:

RS232 interface A and B (DB25 female)	
pin#	function
2	Data Out
3	Data In
5	Handshake In
7	Signal GND
20	Handshake Out

RS232 interface C (DB25 male)	
pin#	function
2	Data In
3	Data Out
5	Handshake Out
7	Signal GND
20	Handshake In

**3. Application**

PC network via RS232 with hardware handshake control



**5. Technical data**

Baudrate:	0..115200 Baud
Data format:	any data format
RS232 signals:	RxD, TxD, CTS, DTR
Power supply:	not necessary
Input impedance:	> 20 k $\Omega$
RS232 interfaces:	Port A and B: DB25 female connector, DTE pin assignment Port C: DB25 male connector, DCE pin assignment
Housing / Dimensions:	Small plastic housing, 63 x 54 x 16 mm
Weight:	150 g incl. cable
Packing list:	1 x RS232 T-Box, type 85210