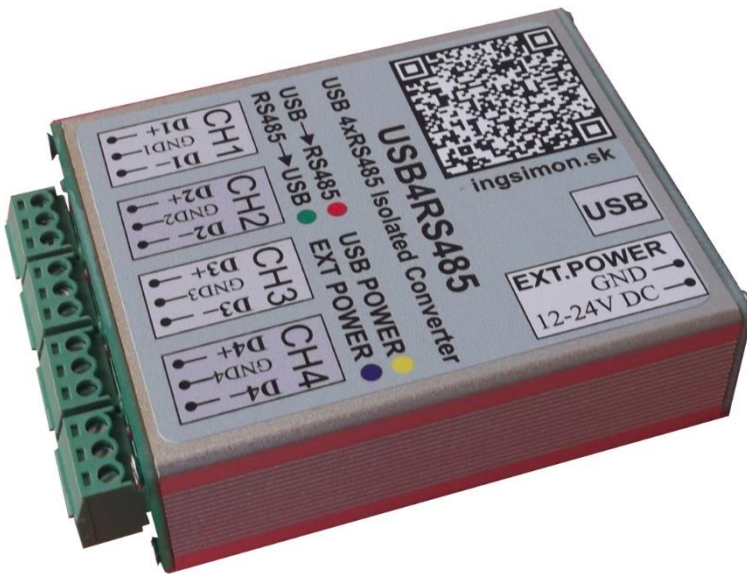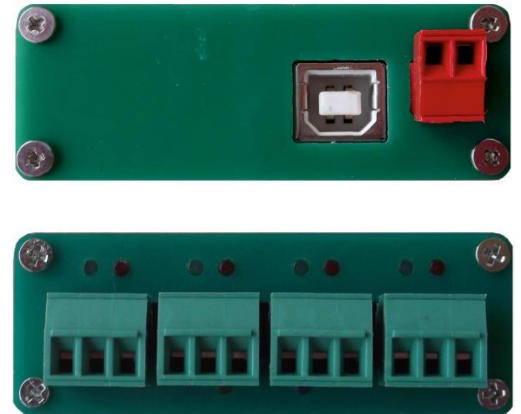# USB4RS485

USB4RS485 is the converter between USB and RS485 with optoisolated communication with four channels. Power for optocupler and for IC is solved via DCDC converter from external power.

Parameters		
Optoisolated	1 kV	
Line length	max 1200 m	Twisted pair
USB IC	FT4232H	
Connector USB	USB-B	
Connecting cable USB PC	USB AB	Optionally. 0.5 ÷ 5.0 m
Channel	4	Optoisolated
Communication speed	max 115200 Bd	
Power from USB	max 0.2W	
External power	max 0.8W	max 12V/65 mA or 24V/30mA
Protective elements	Transil	See wiring diagram below
Indication	LED	According to the sticker
Dimensions with connector	98 x 65 x 24 mm	Without USB cable
RS485 connector	Pluggable 3P	3.81 mm
Ext. Power connector	Pluggable 2P	3.81 mm
Test software terminal	ComTerSim	https://ingsimon.sk/usbrs485/comtersim.zip
Terminating resistor	120R	*
Used optocuplers	TLP2368-E-T	SMD

* It is possible to insert the terminating resistor 120R into the RS485 after opening the box by loosening the two screws and inserting the jumper on the pin strip.USB4RS485 is delivered from the factory without the insertion of a jumper, the impedance resistance is according to the 4K7 scheme.