

Data sheet:

Interface USB <> RS232/RS422/RS485 Industry



Article no.: 38211

EUR 168.00

*Net price for commercial users

Expand any PC system with a serial port

The USB Interface model 38211 converts a USB interface into a full-function serial interface. RS232, -422 and -485 devices as well as RS485 bus systems can now be connected through the USB port.

Properties

Interfaces:

- **1 x USB socket, type B**
- **1 x RS232/422/485**
 - 9-pin SUB-D adapter
- **Galvanic isolation between the ports**
 - Isolation voltage min. 1kV DC

Management and connectivity:

- **USB 2.0 Full Speed Device (12 Mbit/s)**
- **Compatible with RS485 2-wire and 4-wire bus systems**
- **Automatic bus access control**
- **Common solution for Windows, Linux and Mac:**
 - Supports all Windows versions 98 / Server 2003 (x86 and x64 versions) and higher.
 - Supports macOS from macOS 8 and higher
 - direct Linux support without additional driver from kernel version 2.4.0

Power supply:

- **No additional power supply required**
 - Voltage supply via the USB
 - Galvanically isolated power connection
- **Integrated overvoltage protection for the serial port**

Standards & more

- **Conforms to standards both in office and industrial environments:**
 - High noise resistance per EN 61000-6-2
 - Low noise emission per EN 55032:2015 + A1 Cl. B, EN 61000-3-2 & EN 61000-3-3
- **5 year guarantee**



Wish for something!

[Your suggestions for improvement and additions](#)

Worth knowing

Overvoltage protection for serial interfaces

The permissible voltages allowed to have an effect on serial ports in case of an error are limited to rather low values

according to the data sheet specifications for the interface components. Voltages which exceed these values even for a short time will inevitably result in damage to or even destruction of the integrated circuits.

To prevent such effects the USB-Interface 38211 includes integrated overvoltage protection which uses suppressor diodes to limit the maximum occurring voltages to harmless values in a variety of application situations.

Technical data

Connections and displays:

USB port:	Type B female
Serial port:	RS232/422/485 interface 9-pin SUB-D adapter
Operating modes:	RS232, RS422 RS485 2-wire with automatic control, with and without echo RS485 4-wire with automatic control
Baud rate:	Standard: 300..115200 baud Configurable: application- and operating system-specific up to 1 Mbaud (RS232), up to 3 Mbaud (RS422, RS485)
Data format:	Data bits: 7,8 Stop bits: 1,2 Parity: odd, even, no, mark, space
Signal lines:	RS232: RxD, TxD, RTS, CTS, DTR, DSR, DCD, RI RS422: RxD A/B, TxD A/B, CTS A/B, DTR A/B (RTS A/B) RS485: RxD A/B, TxD A/B
RS485 switching time:	A bit time for switching between sending and receiving
Termination:	Connectable termination network for RS485 operation
Overvoltage protection:	Limiting of the signal voltages using suppressor diodes
Galvanic isolation:	Isolation voltage min. 1kV DC between USB and serial connection
USB-UART:	FTDI FT232R
Power supply:	5V DC over USB, optional supply from external 5V power supply
Current consumption:	Maximum: 200mA Idle: RS232 typ. 70mA, RS422/485 typ. 90mA
Displays:	1x LED Data 1x LED On Line


Housing and other data:

Housing:	Plastic housing for top hat rail installation 105 x 22 x 75mm (L x W x H)
Enclosure rating:	IP20
Weight:	approx. 170g
Enclosure rating:	IP20
Ambient temperature:	Storage: -40..+70°C Operating in non-rowed installation: 0..+60°C Operating in rowed installation 0..+50°C
Permissible relative humidity:	5..95% RH (non-condensing)
MTBF:	358,939h @25°C per MIL-HDBK-217
Life expectancy:	> 25 years at 25°C ambient temperature
Scope of delivery:	Interface USB <> RS232/422/485 Industry USB cable with ferrite bead Product CD with driver and manual in German and English






Accessories

*Net unit price for
commercial users


Power supplies

Mini USB Power Supply 5V / 1A with Euro plug	11046	17.00€	
Power cable USB A - coax power plug (5.5/2.1mm)	11391	6.00€	

Cable and Connector Accessories

RS232 PC/PC cable, DB9F x DB9F, 1.8m	11992	9.90€	
RS232 1:1-Cable, DB9F - DB9M, 2m	11952	9.90€	
DB9F connection cable with open cable ends, right angled, 1.5m	11903	17.50€	
9-pol. SUB D socket with soldering terminals and shielded housing	11904	9.90€	
9-pol. SUB D socket with screwing terminal and shielded housing	11905	21.00€	

Further accessories

USB-Hub Industry	33601	178.00€	
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Mechanical Accessories

Wall mount housing, enclosure rating IP66 / IP67	11120	54.00€	
Mounting bracket for wall mounting	58812	11.20€	
19" DIN rail	58813	21.00€	

* Our offering is intended only for commercial users. We will be happy to refer private end customers to trading partners through whom our products can be purchased.



We are available to you in person:

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