Expand your 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 the Windows, Linux and Mac world

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 for industrial environments
  - Low noise emission for residential and business areas
- 5 year guarantee

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, 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:** Max.: 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  
**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

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**Accessories**

<table>
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<tr>
<th>Power supplies</th>
<th>*Net unit price for commercial users</th>
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</thead>
<tbody>
<tr>
<td>Mini USB Power Supply 5V / 1A with Euro plug</td>
<td>11046 15.00€</td>
</tr>
<tr>
<td>Power cable USB A - coax power plug (5.5/2.1mm)</td>
<td>11391 4.00€</td>
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</tbody>
</table>

**Cable and Connector Accessories**

| PC/PC RS232 Cable, DB9F - DB9F, 2m | 11992 9.00€ |
| RS232 1:1-Cable, DB9F - DB9M, 2m | 11952 9.00€ |
| DB9F connection cable with open cable ends, right angled, 1.5m | 11903 16.00€ |
| 9-pol. SUB D socket with soldering terminals and shielded housing | 11904 9.00€ |
| 9-pol. SUB D socket with screwing terminal and shielded housing | 11905 19.00€ |

**Further accessories**

| USB-HUB Industry | 33601 198.00€ |

**Mechanical Accessories**

| IP wall mount housing, 180 x 130 x 175 mm | 11120 49.00€ |
| Mounting bracket for wall mounting | 58812 9.98€ |
* 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.