

## Good to know:

The serial interface is mainly used in industrial fields for measurement technique and control systems.

The RS-232 standard was originally developed for long-distance data transmission in different applications and is still used for data communication e.g. IP-network.

Single data bits are transmitted successively as voltage states through a transmission and reception line.

The serial interface is universal due to its wide functionality and can be easily integrated into systems of industrial machines. It is being supported by almost all microcontroller and does not demand a great deal of hard- and software.

### Terms out of the serial field:

RS-232 DB9 - RS = Recommended Standard; Norm for the serial interface; other norms would be e.g. RS-422 or RS-485

UART - Universal Asynchronous Receiver Transmitter describes a digital data block for sending and receiving data through a data line; 16450 UART = 115.220 Bit/s

FIFO - is a data buffer technology, related to the First In First Out (=FIFO) system; hence e.g. 16550 UART is equipped with 2 x 16 Byte buffer storage.

Baud rate - Baud is a unit for the transmission speed (symbol rate) indicated for serial connections.

## The universal interface for industrial applications and hobbyists.

### Products



#### Cable Serial RS-232 SUB-D9 male / female

- 1 m - Item 82984
- 2 m - Item 84064
- 3 m - Item 84289
- 5 m - Item 84016
- 10 m - Item 82979



Item 66219

#### Express Card 2 x Serial RS-232 SUB-D9

- Data transfer rate up to 460 Kb/s
- Compatible with 16C950 UART
- FIFO: 128 bytes



Item 66211

#### Express Card 1 x Serial RS-232 SUB-D9

- Data transfer rate up to 230,4 Kb/s
- No IRQ Ressource necessary



Item 87414

#### Hub USB 2.0 to 4 x Serial RS-232 SUB-D9

- Data transfer rate up to 230,4 Kb/s
- No extra power supply required
- Plug & Play



Item 61860

#### Hub USB 2.0 to 8 x Serial RS-232 SUB-D9

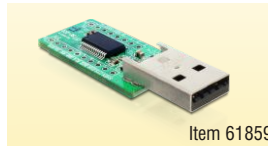
- Automatic IRQ and I/O address selection
- Eight 16C450 / 16C550 compatible UAR Ts
- Supports FIFO 512 bytes per port (transmit / receive)



Item 65269

#### Adapter Serial RS-232 SUB-D9 to Terminal Block

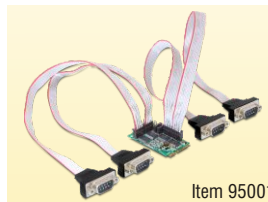
- 10 pin Terminal Block
- Pitch 3.81 mm



Item 61859

#### Development module USB 2.0 to Serial

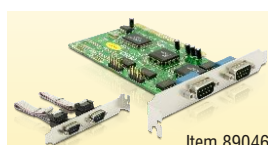
- 18 pin
- Chipset: Prolific PL-2303HXD
- Full-duplex transmitter and receiver (TXD and RXD)



Item 95001

#### MiniPCIe I/O PCIe full size 4 x Serial RS-232 SUB-D9 with Power Management

- 4 x 9 pin serial
- 1 x 2 pin power connection
- Data transfer rate up to 460 Kb/s
- Compatible with 16950 UART
- FIFO: 128 byte



Item 89046

#### PCI Card 4 x Serial RS-232 SUB-D9

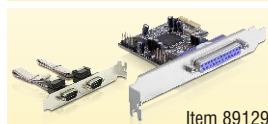
- Data transfer rate up to 1 Mb/s
- Compatible with 16C550 UART
- FIFO: 16 byte



Item 89306

#### PCI Express Card to 4 x Serial RS-232 SUB-D9 with Power Management

- Data transfer rate up to 230,4 Kb/s
- Compatible with 16C950 UART
- FIFO: 128 byte



Item 89129

#### PCI Express Card 2 x Serial RS-232 SUB-D9 1 x DB25 Parallel

- Compatible with 16C550 UART
- FIFO: 16 byte



Item 61516

#### Adapter USB to Serial RS-232 SUB-D9 + Parallel DB25

- Male with screw nuts
- Cable lenght 35 cm + 15 cm
- Data transfer rate up to 115,2 Kb/s



Item 61887

#### Adapter USB 2.0 to 4 x Serial RS-232 SUB-D9, supports Power Management

- Male with screws
- Data transfer rate up to 115,2 Kb/s
- Cable lenght ca. 140 cm



Item 65267

#### Adapter Serial RS-232 SUB-D9 male to female 270° angled

- Female with screws
- Male with screw nuts