

isolating  
protecting  
simplifying

"The fastest isolating converter  
with active outputs"

- High isolating strength
- Data rates up to 1 MBaud
- All 8 RS232 lines isolated
- Active outputs by energy transfer
- Supports non-standard baudrates
- 4 colored functional lights
- Supports Windows and Linux
- Made in Germany, 3 years warranty
- Includes the **CleverTerm** terminal software



### Solid and safe with isolation

Fastest isolating RS232 converter with active outputs **and** a data rate up to 1 MBaud.

High isolating strength for safe connection of potential shifted devices.

Active RS232 outputs by integrated energy transfer. No additional power supply necessary, no ground loops through external supplies.

### Technical data

Data rates

Standard baudrates 300 to 1 MBaud, unusual baudrates via 'aliasing' and programmable divisor (e.g. operate at 512kBaud by selecting 115200 Baud in your program application). Possible non-standard rates are calculated as:  $3000000 / (n + (0.125 * m))$  where  $n = 2...16384$ ,  $m = 0...7$ .

### Isolation

High isolating strength 1600Vrms 1 min.

### Handshake

Fully assisted hardware (RTS/CTS, DTR/DSR) and X-On / X-Off software handshaking on chip for fastest response times.

### Protocol

Provides 7 or 8 Data Bits, 1 or 2 Stop Bits and Odd/Even/Mark/Space/No Parity.

### RS232 lines

All output lines with active  $\pm 15\text{mA}$  output,  $\pm 15\text{kV}$  ESD. Supports the RS232 break command.

### Chipset

FTDI FT232R: Additional functions for high transmission safety, internal data buffer of 384 bytes (256 input, 128 output). Direct controlling of the RS232 lines possible (bit bang mode).

### Driver access

Transparently working software with generation of virtual com-ports and/or USB direct drivers for own applications. Windows: Accessing via COMx, Linux: Device access via /dev/ttyUSBx

### Supported OS

Windows: Windows 10, 8/8.1, 7, Vista, Windows XP (all Microsoft certified driver).  
Linux: Kernel 2.4.x or higher, needed driver (ftdi\_sio module) is part of all newer kernels.

### Connectors

USB: USB Cable about 1 m length with PC compatible type A connection jack and integrated inductance. RS232: Standard RS232 DSub9 Male Connector with undetachable UNC screw nuts (full PC compatible).

### USB compatibility

Compatible to USB 1.1/2.0. Absolutely functionable with all USB-Interfaces of old and new PCs.

### Scope of delivery

USB to RS232 Converter Cable (1m), CDROM with drivers (Windows), installation manual and documentation for direct access (Bitbang Mode) as PDF file. Also included: CleverTerm terminal program.

### Dimension

Case without cable [mm]: 36 x 17 x 63 (Width, Height, Length). Minimal cable seat: 18mm.

### Remark

Isolated USB

Certified USB isolators with energy transfer and unique insulation. Visit our website.

### Special features

**Direct control** of the data stream with 4 LED indicators, easy check for correct connection and activation: green: RxD, yellow: TxD, blue: USB activation for both isolated sides.

**Unusal baudrates:** New FTDI chip generation allows the adjustment of non standard baudrates.

**Bigbang Mode:** Parallel read/write of the signal lines like an IO port (5 inputs, 3 outputs).

### Connection Schematics

