

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 (input 128 bytes, output 256 bytes). 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

