USB to RS232 Adapter cable

Functional Description

The USB-RS232 adaptor cables are a family of communication devices. This model, US232R, provides a simple method of adapting legacy serial devices with RS232 interfaces to modern USB ports.

Each US232R adapter contains a small internal electronic circuit board which utilises the FTDI FT232R, mounted inside a rugged plastic enclosure capable of withstanding industrial temperature ranges. The integrated electronics also include RS232 level shifters and TXD/RXD LEDs to provide a visual indication of data traffic through the adapter.

The Cable incorporates a standard USB-A device connector for connection to an upstream host or hub port. RS232-level signals, including modem handshake signals, are available on an industry-standard DE-9P connector. The maximum RS232-level data rate is 1MBaud.

The US232R adapter cable requires USB device drivers, available free from FTDI, which are used to make the US232R appear as a Virtual COM Port (VCP). This allows existing serial communications software, such as HyperTerminal, to exchange data through the US232R to a legacy RS232 peripheral device.

Cable Features

- Adds one RS-232 serial port by connecting to USB

- Special high gloss white finish enclosure design
- Side-lit blue RXD and TXD traffic indicators
- Enhanced RS232 transceiver gives serial port speed of up to 1MBaud.
- Gold plated USB and DB9 connectors for enhanced connection reliability
- Integral 100cm (US232R-100) USB cable with moulded strain relief
- Quality 4-layer PCB design
- Easy plug & play installation and RS-232 device connection
- Works with USB 1.1 & 2.0 Host and Hub ports
- Industry Standard FTDI chip set & device drivers for maximum compatibility
- Microsoft Windows® WHQL-certified, Mac OS X, Linux and Windows CE device drivers
- Installs as a standard Windows COM port
- COM port number can be changed to any available COM port number, including COM1 to COM4, to support HyperTerminal, or any other serial communications software application running in Windows
- FIFO: 128 byte transmit buffer, 256 byte receive buffer

- RS-232 data signals: TxD, RxD, RTS, CTS, DSR, DTR, DCD, RI, GND

- Powered by USB port. No external power adapter required.

- Serial Communication Parameters
  - Parity:None, Even, Odd
  - Data bits: 7, 8
  - Flow control: RTS/CTS , DSR/DTR, X-ON/X-OFF, None
  - Stop bits 1,2

- Operating temperature of -20°C to +80°C