USB Device Solutions ASIC Design Product Design



Products **ICs**

<u>Home</u>

Cables <u>RPi</u>

USB TTL Serial USB RS232 <u>USB RS422</u> USB RS485

USB to USB

Modules

USB Hi-Speed

<u>Drivers</u> Firmware Support Android Sales Network Web Shop <u>Newsletter</u> Corporate

Contact Us

Google™ Site Search

USB RS232 Cables

USB to serial RS232 Converters. Custom cables are also available, please contact <u>FTDI sales</u> for more information on custom cables.

Chipi-X10 Cables The Chipi-X10 is the latest cost effective version of FTDI's USB to RS232 converter

cable range. It also serves as an evaluation cable for the FT231X. It utilises the minimum number of components required for a basic USB - RS232 converter designed using the FT231XS. Using the FT231X chip combined with an RS232 level converter and a few capacitors. Chipi-X10 is CE and FCC approved and is one of the simplest USB - RS232 solutions around. Using a standard DB9 connector and powered from the USB port, the Chipi-X10 converter can be used with FTDI's VCP drivers to provide a COM port on a PC which is capable of communication rates with RS232 devices, from 300 Baud up to 250kBaud.

enclosure fitted, which covers the electronics inside. A 10cm USB cable is fitted. The Chipi-X10 is fully RoHS compliant and is supplied loose packed in an anti-static bag. VCP Drivers D2XX Drivers

This version of the Chipi - X10 is supplied with a sculpted matt white plastic

Datasheet

USB-RS232 Converter Cables The USB_RS232 cables are a family of USB to RS232 levels serial.

UART interface IC device which handles all the USB signalling and protocols. The cables provide a fast, simple way to connect

devices with a RS232 level serial UART interface to USB. Each USB-RS232 cable contains a small internal electronic circuit board, utilising the FT232R, which is encapsulated into the USB connector end of the cable. The integrated electronics also include the RS232 level shifter plus Tx and Rx

UART converter cables incorporating FTDI's FT232RQ USB to serial

LEDs which give a visual indication of traffic on the cable (if transparent USB connector specified). The other end of the cable is bare, tinned wire ended connections by default, but can be customised using different connectors to support various applications.

Cables are FCC, CE, RoHS compliant. VCP Drivers D2XX Drivers

- Part Number



Link to

Datasheet

Buy from FTDI

Additional

Voltage

Output

Level

		Type	Rate	9	(lf available)		
USB-RS232-WE-1800-BT_0.0	FT232R	Wire-ended	1 Mbaud	1.8m	0∨	<u>Datasheet</u>	ONLINE
USB-RS232-WE-1800-BT_5.0	FT232R	Wire-ended	1 Mbaud	1.8m	5∨	<u>Datasheet</u>	ONLINE
USB-RS232-WE-1800-BT_3.3	FT232R	Wire-ended	1 Mbaud	1.8m	3.3V	<u>Datasheet</u>	ONLINE
USB-RS232-WE-5000-BT_0.0	FT232R	Wire-ended	1 Mbaud	5m	0∨	<u>Datasheet</u>	BUY
USB-RS232-WE-5000-BT_5.0	FT232R	Wire-ended	1 Mbaud	5m	5∨	<u>Datasheet</u>	BUY
USB-RS232-WE-5000-BT_3.3	FT232R	Wire-ended	1 Mbaud	5m	3.3V	<u>Datasheet</u>	ONLINE
USB-RS232-PCB (PCB only)	FT232R	-	1 Mbaud	USB connector with PCB only	Default configuration - 0V	<u>Datasheet</u>	ONLINE
US232R-10 Premium USB-Serial Converter							
US232R-10 is FTDI's premium USB to RS232 evaluation cable which can be used esting the functionality of the FT232R device and drivers prior to design-in.							

Max

UART

Baud

Cable

Length

UART

Connector

Type

FTDI

Chipset

The US232R-10 evaluation cable is supplied in retail packaging which includes instructions together with a Drivers and Utilities CD complete with Microsoft WHQL

USB cable uses gold plated USB and DB9 connectors.

gold plated USB and DB9 connectors.

approved.

certified VCP drivers for Windows XP. Drivers for the Apple Mac, Linux and other versions of Windows are also included on the CD.

communication rates from 300 The US232R-10 is RoHS compliant and is CE and FCC

The US232R-10 uses an enhanced RS232 level converter and is capable of

The electronics, including the FT232RQ chip are housed in an attractive glossy white enclosure with blue, side-lit LED TX and RX traffic indicators. A matching white 10 cm

 VCP Drivers D2XX Drivers US232R-10 Datasheet

US232R-100 - Premium USB - RS232 Serial Converter Cable The US232R-100 is FTDI's premium USB to RS232 evaluation cable which can be used for testing the functionality of the FT232R device and drivers prioThe electronics,

including the FT232RQ chip are housed in an attractive glossy white enclosure with blue, side-lit LED Tx and Rx traffic indicators. A matching white 1m USB cable uses

The US232R-100 evaluation cable is supplied in retail packaging which includes instructions together with a Drivers and Utilities CD complete with Microsoft WHQL certified VCP drivers for Windows XP. Drivers for the Apple Mac, Linux and other

pack version. The US232R-100 uses an enhanced RS232 level converter and is capable of communication rates from 300 Baud to 1M Baud. The US232R-100 is fully RoHS compliant and is CE and FCC approved.

The US232R-500 is FTDI's premium USB to RS232 evaluation cable which can be used

cable uses gold plated USB and DB9 connectors. The US232R-500 evaluation cable is supplied in bulk packing.

 VCP Drivers D2XX Drivers

US232R-100_Datasheet

The US232R-500 is fully RoHS compliant and is CE and FCC approved.

The UT232R-200 uses an enhanced RS232 level converter and is capable of

The UT232R-200 is fully RoHS compliant and is CE and FCC approved.

UT232R-200 USB-Serial Converter

for locking the connector to its mating half.

communication rates from 300 baud to 1M baud.

 UT232R-200 Datasheet VCP Drivers D2XX Drivers

The electronics, including the FT232RQ chip are housed in an attractive glossy white. A matching white 5m USB cable uses gold plated USB and DB9 connectors. The UT232R-500 evaluation cable is uses thumb screws on the DB9 connector to allow

for testing the functionality of the FT232R device and drivers prior to design-in.

UC232R-10 Economy USB-Serial Converter The UC232R-10 "ChiPi" is the economy version of FTDI's USB to RS232 converter. cable range. It also serves as an evaluation cable for the FT232R. It utilises the

 VCP Drivers D2XX Drivers UC232R-10-NE "ChiPi" USB - RS232 Converter

 UC232R "ChiPi" Datasheet VCP Drivers D2XX Drivers CE Approval

US232B/LC takes it's power from the USB bus. US232B L/C comes complete with drivers for Microsoft Windows '98, ME, 2000, XP and Server

The US232B evaluation cable replaces our older FT8U232AM evaluation cable with a new version complete with a 1m long tethered USB cable. The US232B is packaged as a compact USB <=> RS232 cable in an attractive enclosure and uses the enhanced Sipex

US232B 1m Converter Cable

certified VCP drivers for Windows XP.

Top PCB layer (PDF format)

Bottom PCB layer (PDF format)

format.

The following reference downloads are available: PCB Gerber files Schematic (PDF format)

US232R-500 Premium USB-- RS232 Serial Converter

for testing the functionality of the FT232R device and drivers prior to design-in.

The electronics, including the FT232RL chip are housed in an attractive glossy white enclosure with blue, side-lit LED TX and RX traffic indicators. A matching white 5m USB

 VCP Drivers D2XX Drivers US232R-500 Datasheet

The electronics, including the FT232RQ chip are housed in an attractive glossy white. A matching white 5m USB cable uses gold plated USB and DB9 connectors.

The UT232R-200 evaluation cable is uses thumb screws on the DB9 connector to allow

The UT232R-500 uses an enhanced RS232 level converter and is capable of communication rates from 300 baud to 1M baud.

The UT232R-500 is fully RoHS compliant and is CE and FCC approved.

UT232R-500 Datasheet

 VCP Drivers D2XX Drivers

230kBaud.

fitted.

cable.

anti-static bag.

is one of the simplest USB - RS232 solutions around. Using a standard DB9 connector and powered from the USB port, the UC232R-10

"ChiPi" converter can be used with FTDI's VCP drivers to provide a COM port on a PC which is capable of communication rates with RS232 devices from 300 baud up to

This version of the UC232R-10 is supplied with a nicely sculpted matte white plastic plastic enclosure fitted, which covers the electronics inside. A 10cm USB cable is

The UC232R-10 is fully RoHS compliant and is supplied loose packed in an anti-static

solutions around. Using a standard DB9 connector and powered from the USB port, the ChiPi can be used with the VCP drivers to provide a COM port on a PC which is capable of communication rates with RS232 devices from 300 baud up to 230kBaud.

This version of the UC232R-10-NE is supplied without the white plastic enclosure which covers the electronics fitted. This allows engineers access to the FT232RL chip for test

and evaluation purposes. This also allows for the possibility of customisation of the

The UC232R-10-NE is fully RoHS compliant and is supplied loose packed in an

US232B/LC 10cm Converter Cable

has an internal 128 byte transmit buffer FIFO and a 384 byte receive buffer FIFO. It supports RS232 data transfer rates of up to 500K bps. No external power supply is required as 2003. Drivers are also available for Apple OS-8, OS-9 and OS-X as well as Linux. VCP Drivers

US232B L/C Features a full set of RS-232 modem data and control signals (TxD, RxD, RTS, CTS, DSR, DTR, DCD, RI, and GND) on it's PC compatible DB9 male connector. US232B/LC

The US232B evaluation cable can be used for testing the functionality of the device and drivers prior to design-in. The electronics are housed in an attractive translucent blue enclosure with a matching 1m clear translucent cable. We are now shipping the US232 evaluation cable together with a Drivers and Utilities CD complete with Microsoft WHQL

USA and Japan. For those FTDI customers who wish to package their own USB design in an attractive enclosure, the USB cable, enclosure and DB9 connector are available as a set (without electronics). Contact <u>FTDI Sales</u> if you are interested.

which is supplied loose in an anti-static bag. No driver CD is supplied with the bulk

The US232R-500 uses an enhanced RS232 level converter and is capable of communication rates from 300 Baud to 1M Baud.

The UT232R-200 is FTDI's premium USB to RS232 evaluation cable which can be used for testing the functionality of the FT232R device and drivers prior to design-in.

UT232R-500 USB-Serial Converter

for locking the connector to its mating half.

minimum number of components required for a basic USB - RS232 converter designed using the FT232RL. Using the FT232R chip combined with an RS232 level converter. and a few capacitors, the UC232R-10 "ChiPi" is a CE and FCC approved product which

The UC232R "ChiPi" module is a basic minimum component USB - RS232 converter. Using the FT232R with an RS232 level converter and a few additional components, the UC232R is a CE and FCC approved module that is one of the simplest USB - RS232

 FCC Approval Schematic PCB Gerber Files

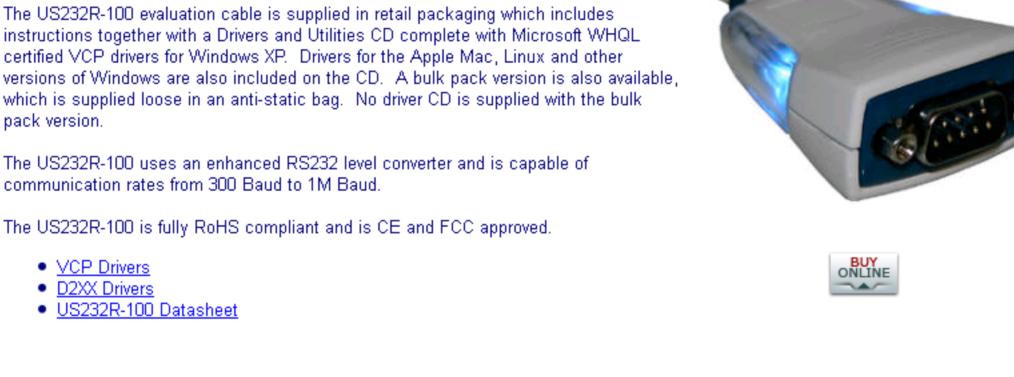
D2XX Drivers

to 460k Baud. The US232B is now available through the FTDI Sales Network in Europe, For manufacturers who are interested in making this product for themselves either with our

enclosure or one of their own design, we can supply you with the US232B reference design free of charge. This consists of schematics, bill of materials and the PCB design in Gerber

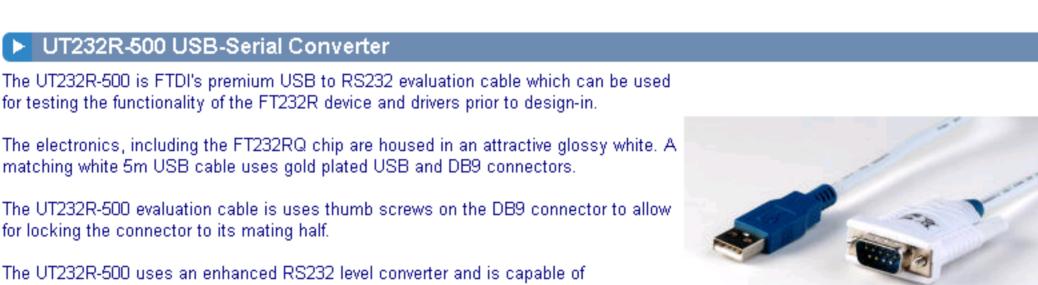
SP213EHCA as it's RS232 level converter so is now able to support RS232 Baud rates of up

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