

Connector pinouts

Pin side view

**Canon 9V**

No.	Pin name	I/O	Description
1	DCD	IN	Data Carrier Detect
2	RD	IN	Receive data
3	TD	OUT	Transmit data
4	DTR	OUT	Data Terminal Ready
5	SG	PWR	Signal Ground
6	DSR	IN	Data Set Ready
7	RTS	OUT	Request To Send
8	CTS	IN	Clear To Send
9	RI	IN	Ring Indicator

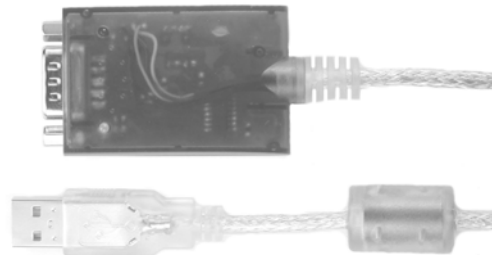
### Technical specification:

Absolute			
Operation temperature	$T_{PWR}$	min. 0 °C	max. 70 °C
USB power consumption	$I_{PWR}$		max. 100 mA
Max. input voltage	$V_{RIN}$		max. $\pm 25$ V
Typical			
Data rate	$D_R$		typ. 500 Kbit/s
RS232 input voltage Low	$V_{RIL}$	0.8 V min.	1.4 V typ.
RS232 input voltage High	$V_{RIH}$	1.9 V typ.	2.4 V max.

UCAB232\_EN

## UCAB232 – RS232 interface for USB

UCAB232 is a comfortable USB to RS232 converter dedicated for connection of most of the industrial and commercial applications to PC using USB bus. UCAB232 is based on FT232BM integrated circuit by FTDI.



UCAB232 is equipped by a level converter with guaranteed data rate of 250 Kbaud and fully supports all RS232 signals on the 9-pin connector.

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## USAGE

UCAB232 adds an RS232 interface to a USB equipped computer. The VCP (Virtual Com Port) drivers are available for Win 98SE/2K/ME/XP, Mac OS8/OS9/OS X and Linux. After installation of the drivers a new COM port device will be ready to use by software applications in standard fashion (e.g. Win32 API function calls).

UCAB232 is designated for all standard RS232 devices (mouses, modems, data terminals, barcode readers, serial printers) and industrial applications.

## FEATURES

- Data rate from 300baud up to 500kbaud
- Powered from USB, no additional power supply needed
- Standard 9-pin SubD connector
- Receive buffer 384 Byte
- Transmit buffer 128 Byte
- Full hardware flow control using RTS/CTS, DTR/DSR/DCD, hardware assisted XON/XOFF
- USB 2.0 compatible, Full speed
- Possibility to customize VID, PID for OEM products
- Drivers for Win 98/2K/ME/XP, Mac OS8/OS9/OSX, Linux available for free
- Low power consumption (USB suspend mode)
- Cable length 1 m
- Red LED indicates PC to device data transfer
- Green LED indicates device to PC data transfer

## INSTALLATION

*Example of driver installation process for WindowsXP*

- Connect UCAB232 to any free USB port of your computer. Once the system detects new device continue by clicking NEXT.
- Select "Install from a list or specific location (advanced)" and click NEXT.
- Check only "Include this location in the search" and click BROWSE
- Select the directory with FTDI VCP driver and click OK. Drivers are available on the attached CD-ROM or from the FTDI website [www.ftdichip.com](http://www.ftdichip.com).
- The selected directory will be filled in the edit box in the window you just returned to. Now hit NEXT twice and then FINISH.

**NOTE :** *Virtual COM port number assigned to UCAB232 can be changed in device properties in the control panel (for Windows systems).*

**ADVANCED FEATURES:** *If more than one UCAB232 is to be connected to a single computer the cable must be assigned a serial number which is to be stored in the built in EEPROM memory. Moreover VID, PID and USB device description may be also changed.*