San Telequip (P) Ltd., 504/505 Deron Heights, Baner Road, Baner Pune 411045, Mah, India Phone :+91-20-65001587, 9764027070, 8390069393 email : info@santelequip.com



User's Manual : Isolated, RS232 / RS485 / RS422 to USB Converter. Model SC11U4K

Introduction

The SC11U4K allows you to connect your Serial devices to various systems by using a USB (Universal Serial Bus) Interface. The Serial port is RS232 / RS485 & RS422 configurable. With Auto Detect and Auto baud rate function SC11U4K is able to automatically detect the data flow and switch the direction of the data lines as well as to automatically configure RS422/485 signals to any baud rate. 3000VDC Optical Isolation and Surge-protection on each data line gives the interfacing devices protection from high voltage spikes. It draws Power from the USB port & DC (9V ~24V) Power Adapter (option). SC11U4K supports speed upto 115.2 Kbps for RS485/RS422 and RS232 up to 921.6Kbps. It is fully compatible with USB V1.0 to 2.0

Specification

USB 1.0, 1.1 & 2.0. 12Mbps Serial Ports: Auto Detect RS232 signal: Rx, Tx, Gnd, CTS, RTS, DSR, DTR, DCD, RI RS422 signal: Differential 4 full-duplex wires. (T+, T-, R+, R-) RS485 signal: Differential 2 half-duplex wires. (D+, D-) Flow Control: Xon / Xoff or Hardware Communication Speed: From 300bps to 921.6kbps for RS232 & 115.2kbps for RS485/RS422, Auto switching. Surge Protection, over current Protection on RS422/485 lines. Distance: Up to 4000ft (1250M) Cable : USB Type A to Type B Connection type: Screw terminal. Signals LED: Power, USB Ready, TX1, RX1TX2, RX2, TX3, RX3, TX4, RX4. 4 Port Isolation Voltage: 3000V DC Surge Protection :All 485/422 lines Operating temperature: 0 to +70 C Storage temperature: -45 to +85 C Dimension: 107mm X 183mm X 26mm (W*D*H) Weight: 500gm Power Supply : USB Port Power Adapter 9V~24V DC OS supported: Windows 98/ME/2000/XP/2003 Server/Vista, Linux, Mac.

LED Indicators

Power (Red)	: Power indication	
	When the power is on and USB port to PC is on ,the LED will be on.	
USB Ready (Green): USB device signal indicator.		
	When the USB signal is detected, the LED will be on.	

Port1

TX1 (Red)	: Data sent indicator
RX1 (Green)	: Data received indicator

Port 2

TX2 (Red)	: Data sent indicator
RX2 (Green)	: Data received indicator

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Port 3

TX3 (Red)	: Data sent indicator
RX3 (Green)	: Data received indicator

Port 4

TX4 (Red)	: Data sent indicator
RX4 (Green)	: Data received indicator

RS232 Connection

RS-232(RTS/CTS , DTR/DSR) Wiring

Serial Device	SC11U4K
RX	—— тх
тх ———	RX
GND	GND
RTS	CTS
CTS	RTS
DTR	DSR
DSR	DTR



RS422/RS485 Connection

RS-422 Wiring

 Serial Device
 SC11U4K

 T R

 T+
 R+

 R T

 R+
 T+

RS-485 Wiring



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SC11U4K SETUP STEPS

- 1. Connect the SC11U4K to PC, The converter will be detected by PC as below screen.
- Select Yes this time only and click on "Next" 2.
- Found New Hardware Wizard



- 3. Select Install from a list or specific location (Advanced), and click on Next.
- Insert the driver CD to CD-ROM, Checkmark the checkbox of "Include this location in the search", and 4. click on Browse.

Hardware Update Wizard	Hardware Update Wizard	
	Please choose your search and installation options.	
This wizard helps you install software for:	Search for the best driver in these locations.	
USB Serial Port	Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.	
If your hardware came with an installation CD or floppy disk, insert it now.	Search removable media (floppy, CD-ROM) Include this location in the search Browse Browse	
What do you want the wizard to do?	○ Don't search. I will choose the driver to install.	
Install the software automatically (Recommended) Install from a list or specific location (Advanced)	Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.	
Click Next to continue.		
< <u>B</u> ack <u>N</u> ext > Cancel	< <u>Back</u> <u>Next</u> > Cancel	

- The driver CD contains different driver for different O/S ,Choose "CDM 2.06.00 WHQL Certified" then 5. click on OK
- 6. It will begin to search the driver from indicated path.

Browse For Folder	<u>?</u> ×
Select the folder that contains drivers for your hardwar	re.
E 🛅 5.0	•
🕀 🛅 Asp	
E BACKUPCDR	
🗉 🗀 Billing	
🖃 🗁 CDM 2.06.00 WHQL Certified	
amd64	
i386	-
To view any subfolders, click a plus sign above.	
OK Cance	
	_//

Hardware Update Wizard	
Please wa	ait while the wizard searches
- Providence in the second sec	USB Serial Port
	3
	Cancel

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7 Click on Next as below Screen

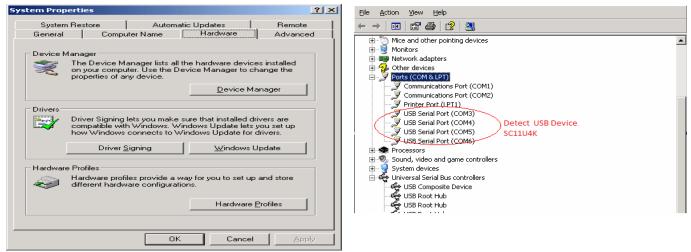
······································		
8. System begins ti install the driver as below.		
Hardware Update Wizard	Hardware Update Wizard	
Please select the best match for your hardware from the list below.	Please wait while the wizard installs the software	
USB Serial Port Description Version Manufacturer Location USB Serial Port 2.6.0.0 FTD1 et/windows\inf\coem3.inf USB Serial Port 2.6.0.0 FTD1 et/windows\unif\coem3.inf USB Serial Port 2.6.0.0 FTD1 Windows\unif\coem3.inf	USB Serial Converter A	
This driver is digitally signed.	FTLang.dll To E:\WINDOWS\system32	
< <u>B</u> ack Next> Cancel	< <u>B</u> ack, <u>N</u> ext>	Cancel
	9. Click on Finish as below.	
Hardware Update Wizard		

Hardware Update Wizard		
	Completing the Hardware Update Wizard	
	The wizard has finished installing the software for:	
	USB Serial Port	
	Click Finish to close the wizard.	
	< <u>B</u> ack Finish Cancel	

10. Then go to System Properties and choose Device Manager as below Screen. and see if there are 4 ports of USB serial Port correctly displayed, means the installation are complete and correct.

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11. This finishes the installation.