Connecting. Converting. Leading!

User's Manual: Isolated, RS232 / RS485 to USB Converter. Model SC11U

Introduction

The SC11U 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 SC11U 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 & does not need any external adapter. SC11U supports speed upto 115.2 Kbps. It is fully compatible with USB V1.0 to 2.0
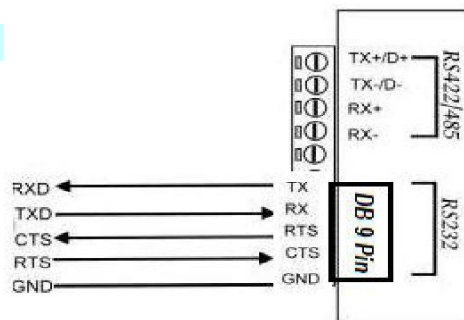
Specification

USB 1.0, 1.2 & 2.0. 12Mbps
Serial Ports: Auto Detect
RS232 signal: Rx, Tx, Gnd, CTS, RTS, DSR, DTR
RS422 signal: Differential 4 full-duplex wires.
RS485 signal: Differential 2 half-duplex wires.
Built in Terminal 100 Ohm Terminal resistor SW selection ON/OFF
Serial Parameters: Parity: None, Odd, Even, Mark, Space.
Data bits: 5,6,7,8.
Stop bits: 1, 1.5, 2.
Flow Control: Xon / Xoff or Hardware
Communication Speed: From 300bps to 921kbps for RS232 & 320kbps for RS485, Auto switching.
Surge Protection on RS422/485 lines.
Distance: Up to 4000ft (1250M)
Cable : USB Type A to Type B
Connection type: RS232:DB 9 Pin Male.
                 RS485/422: 4 Pin Screw Terminal.
Signals LED: Power on TX, RX.
Isolation Voltage: 3000V DC
ESD Protection: 15KV on all signals
Surge Protection: 600W on all 485/422 lines
Operating environment: 0 to 60 C
Storage temperature: -20 to 70 C
Dimension: 88mm X 91mm X 27mm
Weight: 95g
Power Supply: USB Port
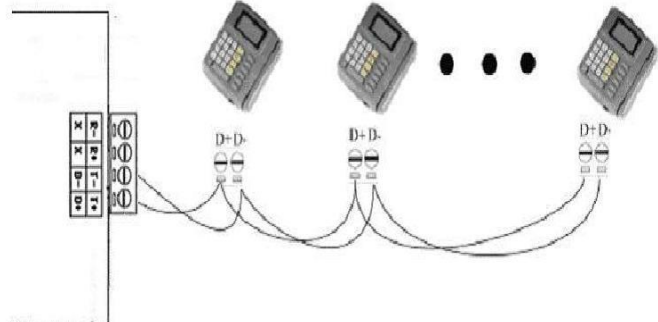OS supported: Win 7,8.1, 98/ME/2000/XP/2003 //Vista, Win 10, Linux, Mac.

LED Indicators

SYS (Red)   : Power,
RX (Orange)   : Data received indicator
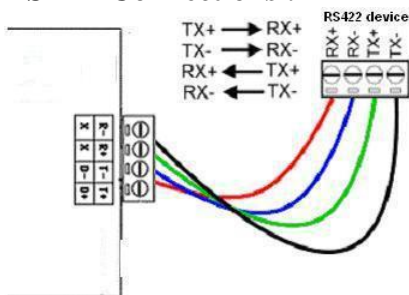TX (Green)   : Data sent indicator

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RS232 Connections.

RS 485 Connections :

RS 422 Connections :

RS422/485 Connections & Termination Resistors.

For 2 wire connect D+ or Tx+ to D+ or Tx+ & D- or Tx- to D- or Tx-.
For 4 wire connect TX+ to RX+, TX- to RX- & RX+ to TX+ & RX- to TX-.

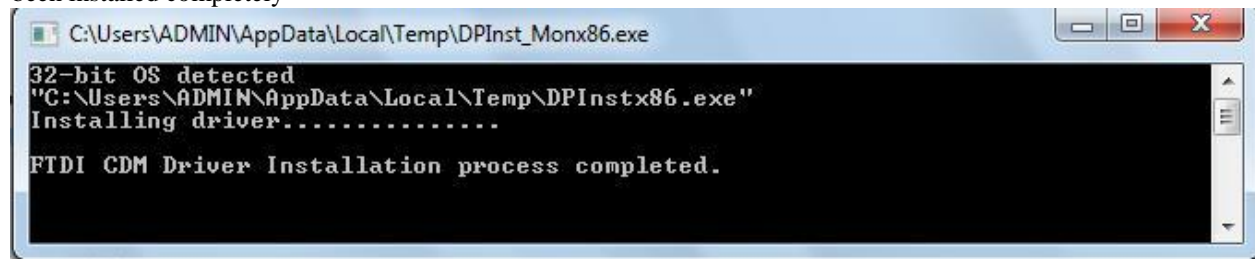Use the inbuilt terminator resistors if need be

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DRIVER INSTALLATION GUIDE

Driver: FTDI

FTDI driver you can be installed from CD that comes in product package or you can download it from our websites www.santelequip.com/download once on your PC ,proceed to install it with just double clicking on the **CDM20814_Setup.**

The USB Serial Port installation wizard is completed just as shown in the following figure. Now the driver has been installed completely

After the driver has been installed correctly please have a look at the device manager to make sure whether there is virtual COM port. If it's the first time to install the USB driver on this system then the default COM ports are COM1.as shown in the following figure. Up to now the driver of SC11U has been installed successfully.

USB to RS232 / RS485 / RS422 Optically Isolated Converter