JetCon 1104

USB to 4 RS-232 Serial Converter

- USB / RS-232 DTE and DCE Connection
- Fully RS-232C Signals, Flow Control
- USB 1.1/1.2/2.0 compatible
- 921.6 Kbps High Speed Serial
- 480Mbps USB Data Throughput
- 15KV Human Body ESD protection
- -30~75°C wide operating temperature

Overview

As digital technology advances and light-weight design requirements, more and more computer equipment does not support the traditional communication interface and change to USB (Universal Serial Bus technology) interface. The USB technology simplifies digital system design and support more number of communication interfaces, but also erected fences to traditional equipment isolation. Will challenge many automated control integration industry, the integration of old and new equipment, and approached full system function. Through the JetCon 1104 USB to 4-port Serial RS-232 Converter, the system integrator will be able to reduce the system integrate troubles, and make integration becomes easy and simply.

Fully Function USB/ RS-232C Serial Converter

The JetCon 1104 supports USB 2.0 interface and RS-232C serial channels with 921.6Kbps throughput. It provides fully flow control function enabled to connects Data Communication Equipment, like as PSTN modem, or Programmable Logic Control device which needs flow control. The serial interface supports fully communication parameters which can be configured by operating system- Windows, Macintosh and Linux systems.

Satisfy Field Site Application in One USB interface

Most of modern Note Book supports few serial interfaces; User may install USB mouse onto the Notebook, and the USB port number may present 1 or 2 ports only. The JetCon 1104 supports 4-channel RS-232 interfaces to satisfy the multiple serial communications in the field site application with few USB interface computing system.
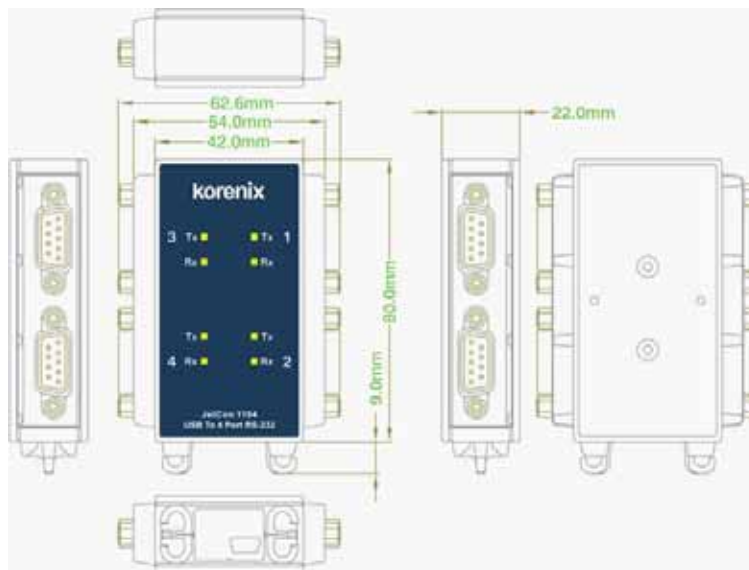
The computing system could be Windows based system, MAC based system or Linux system. With the software property software driver, user can configure the serial communication parameters and I/O interrupt, address through the system BIOS setting.

Applications

The following diagram shows the host computer communicates with programmer logic controller via the USB interface, and the JetCon1100 provides USB to serial port convert function. It offers the logical com mapping to physical serial port function.

Dimensions (Unit = mm)

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Specifications

Technology
Standard: EIA/TIA-232, RS-232 (ITU-T v.28)

System performance
Forwarding Rate:

USB 2.0 Slave with 480Mbps data throughput

RS-232 baud rate up to 921.6Kbps

FIFO Buffer: Transmit Buffer: 2Kbytes

Receive Buffer: 2Kbytes

Interface
Connector: USB: Mini USB slave , B-Type

Serial: 4 x DB-9- Male

Connection Distance: USB:5 Meters

RS-232 Serial: 15 Meters

Serial Parameters: Length of Data bit: 7, 8 bits

Stop Bit:1Bit, 2 Bits

Type of parity check: None, Even, Odd, Space, Mark

Type of Flow Control: RTS/ CTS, XON/ XOFF

Serial Signal: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

System LED: TX Blinking (Green): Transmitting Data

RX Blinking (Amber): Receiving Data

Operating System Support
Windows: XP, 2003, Vista, 2008, Win 7

Macintosh: System 8, 9

Linux: 2.4, 2.6

Power Requirements
System Power: Obtain from USB Host interface

Power Consumption: 0.83W, 5V/0.165A

Mechanical
Installation: DIN Rail mount

Case: Plastic Case with IP-30 protection

Dimension: 89mm(H) x 62.6 mm (W) x 22 mm (D) w/o DIN Rail Clip

Weight: 0.225kg with package

Environmental
Operating Temperature: -30°C~75°C

Operating Humidity: 0% ~ 90% non-condensing

Storage Temperature: -40°C~ 80°C

Storage Humidity: 0%~ 95%, non-condensing

Regulatory Approvals
EMC: CE, FCC Class A

MTBF: 273,000 Hours ,MIL-HDBK-217F

Warranty: 3 Years

Ordering Information

Art No. 130551   JetCon 1104 USB to 4 x RS-232C Serial Converter, -30~75°C

Includes:

- JetCon 1104
- DIN Rail Mounting Kit
- USB Mini B Type to USB A type Cable 100cm x 1
- Quick Installation Guide
- Driver CD

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