



JetCon 1100 / JetCon 1200 series
Quick Installation Guide v1.1

Overview

The JetCon 1100 and JetCon 1200 series provide USB to serial communicate ability with RS-232 (JetCon 1100) and RS-422/RS-485 (JetCon 1200) serial modes. They also provide 15KV ESD protection for Human Body Contact Mode and Insulation protection for some extreme application environment, such as medical application. The JetCon 1100 series support RS-232 serial interface from 1 port to 4 ports in standard DB-9 connector for different JetCon 1100 models, and the JetCon 1200 series support RS-422/RS-485 serial mode in removable terminal block connector. Both of product lines support several operating systems, including Microsoft Windows System, Macintosh System and Linux System. To learn and use it, please study the QIG and CD-user manual first.

Package Check List

- ▶ JetCon 1100 Series USB/Serial RS-232 Converter or JetCon 1200 Series USB/Serial RS-422/RS-485 Converter
- ▶ One Mini-USB female to USB female cable
- ▶ Quick Installation Guide
- ▶ One CD-ROM with User manual and Drivers. (JetCon 1100 and JetCon 1200)

Model Name and function description

Model Name	Product Description	USB Port	Serial Port	ESD / Insulation Protect
JetCon 1101	USB to 1-Port RS-232 Serial	V1.1/1.2/2.0 12Mbps	1 x 921.6Kbps	15KV ESD
JetCon 1101i-5KV	USB to 1-Port RS-232 Serial	V1.1/1.2/2.0 12Mbps	1 x 921.6Kbps	15KV ESD/ 5KV Isolation
JetCon 1102	USB to 2-Port RS-232 Serial	V1.1/1.2/2.0 480Mbps	2 x 921.6Kbps	15KV ESD
JetCon 1104	USB to 4-Port RS-232 Serial	V1.1/1.2/2.0 480Mbps	4 x 921.6Kbps	15KV ESD
JetCon 1201	USB to 1-Port RS-422/485 Serial	V1.1/1.2/2.0 12Mbps	1 x 921.6Kbps	15KV ESD
JetCon 1201i-3KV	USB to 1-Port RS-422/485 Serial	V1.1/1.2/2.0 12Mbps	1 x 921.6Kbps	15KV ESD/ 3KV Isolation

Installation

Mounting the Unit

The USB / Serial Converter support one EN50022 DIN-Rail mounting clip on the bottom side.

Note: Before mounting to the DIN rail, please ensure the DIP switch is with correct setting if there is DIP switch located on the bottom side of USB/Serial converter.

Serial and USB interface

RS-232 Serial interface (JetCon 1100): the serial port supports RS-232 Hand-shaking function, which means the converter provides full control signals and data signal as the listing below.

DB-9 Male RS-232									
Pin	1	2	3	4	5	6	7	8	9
Signal	DCD	RD	TD	DTR	GND	DSR	RTS	CTS	RI

Follow the pin assignment instruction to connect DCE with cross-over mode serial communication cable for the serial communicate application in the further.

RS-422/RS-485 Serial interface (JetCon 1200): the serial port of JetCon 1200 supports RS-422/RS-485 type serial signal with removable terminal block connector (5-wired). The detail wiring instruction is also on the front panel of JetCon 1200, and so is the serial mode selection guide. The information is shown as the following tables:

JetCon 1200 5-pin Terminal Block Connector assignment					
Conductor No.	5	4	3	2	1
RS-422/RS-485 4-Wire	Signal GND (S.G)	RX -	RX +	TX-	TX-
RS-485 2-Wire	Signal GND (S.G.)	Data -	Data+		

JetCon 1200 Serial Mode Select DIP-Switch				
DIP-SW1	DIP-SW2	DIP-SW3	DIP-SW4	Serial Mode and Description
OFF	OFF		ON (with T.R.) OFF (without T.R.)	RS-422 4-Wire Serial Mode, DIP-SW4 (120ohm line terminator resistor selection)
ON	OFF		ON (with T.R.) OFF (without T.R.)	RS-485 4-Wire Serial Mode, DIP-SW4 (120ohm line terminator resistor selection)
OFF	ON	OFF	ON (with T.R.) OFF (without T.R.)	RS-485 2-Wire Serial Mode without ECHO, DIP-SW4 (120ohm line terminator resistor selection)
OFF	ON	ON	ON (with T.R.) OFF (without T.R.)	RS-485 2-Wire Serial Mode with ECHO, DIP-SW4 (120ohm line terminator resistor selection)

Mini-USB Interface: the Mini-USB port supports USB 1.1-2.0 with 12-480Mbps throughput and also applied power from PC's USB port to converter. Connect the USB/Serial converter with PC by USB/Mini-USB cable which attached in the packing box.

Install Software Driver into Computer

The USB/Serial Converters support several Operating Systems, and the converters need additional drivers for different Operating Systems. Get more information and driven to activate the USB/Serial converter, please check the User manual and install driver from the CD-ROM attached in the packing box.

Support

5 Years Warranty

Each of Korenix's product line is designed, produced, and tested with high industrial standard. Korenix warrants that the Product(s) shall be free from defects in materials and workmanship for a period of five (5) years from the date of delivery provided that the Product was properly installed and used.

This warranty is voided if defects, malfunctions or failures of the warranted Product are caused by damage resulting from force measure (such as floods, fire, etc.), other external forces such as power disturbances, over spec power input, or incorrect cabling; or the warranted Product is misused, abused, or operated, altered and repaired in an unauthorized or improper way.

Attention! To avoid system damage caused by sparks, please DO NOT plug in power connector when power is on.

The product is in compliance with Directive 2002/95/EC and 2011/65/EU of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronics equipment(RoHS Directives & RoHS 2.0)

Korenix Customer Service

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<http://www.korenix.com/downloads.htm>

引言

JetCon 1100和JetCon 1200系列提供USB到串口通讯能力，包括RS-232(JetCon 1100)和RS-422/RS-485(JetCon 1200)串口模式。设备支持15KV ESD保护，针对一些极端应用环境，如医疗等，提供人体接触绝缘保护。JetCon1100系列支持RS-232串口，JetCon 1100的不同型号提供1到4个不等的标准DB9接头。JetCon 1200系列则提供接线端子形式的RS-422/RS-485串口。各个型号支持多操作系统，包括Microsoft Windows系列、Macintosh和Linux系统。学习及使用请参阅QIG和用户手册。

产品清单

- ▶ JetCon 1100系列USB转RS-232串口转换器或JetCon 1200系列USB转RS-422/RS-485串口转换器
- ▶ 一条Mini-USB female转USB female线缆
- ▶ 快速安装向导
- ▶ 用户手册和驱动光盘(JetCon 1100和JetCon 1200)

产品名称和功能描述

型号	产品描述	USB Port	Serial Port	ESD / Insulation Protect
JetCon 1101	USB to 1-Port RS-232 Serial	V1.1/1.2/2.0 12Mbps	1 x 921.6Kbps	15KV ESD
JetCon 1101i-5KV	USB to 1-Port RS-232 Serial	V1.1/1.2/2.0 12Mbps	1 x 921.6Kbps	15KV ESD/ 5KV Isolation
JetCon 1102	USB to 2-Port RS-232 Serial	V1.1/1.2/2.0 480Mbps	2 x 921.6Kbps	15KV ESD
JetCon 1104	USB to 4-Port RS-232 Serial	V1.1/1.2/2.0 480Mbps	4 x 921.6Kbps	15KV ESD
JetCon 1201	USB to 1-Port RS-422/485 Serial	V1.1/1.2/2.0 12Mbps	1 x 921.6Kbps	15KV ESD
JetCon 1201i-3KV	USB to 1-Port RS-422/485 Serial	V1.1/1.2/2.0 12Mbps	1 x 921.6Kbps	15KV ESD/ 3KV Isolation

安装

安装设备

USB串口转换器支持EN50022 DIN-Rail导轨安装，设备底部装有导轨夹。

备注：将设备卡上导轨夹之前，请先确认位于设备底部的DIP拨码开关已经拨到正确位置

串口和USB口

RS-232系列接口(JetCon 1100): 串口支持RS-232握手功能，这表示转换器提供全部控制信号和数据信号。根据pin脚定义用交叉串行通讯线缆连接DCE，适应将来的串行通讯应用需求。

DB-9 Male RS-232									
Pin	1	2	3	4	5	6	7	8	9
Signal	DCD	RD	TD	DTR	GND	DSR	RTS	CTS	RI

在串口通讯应用中，请使用cross-over串口通讯电缆并按照引脚分配去连接DCE。

RS-422/RS-485串口(JetCon 1200): JetCon 1200的串口支持RS-422/RS-485通讯模式，配备可拆卸接线端子(5-wired)。详细的配线方式在JetCon 1200前面板和选型指南上均有标识。请参阅下表：

JetCon 1200 5-pin Terminal Block 接口配置					
Conductor No.	5	4	3	2	1
RS-422/RS-485 4-Wire	Signal GND (S.G)	RX -	RX +	TX-	TX-
RS-485 2-Wire	Signal GND (S.G.)	Data -	Data+		

JetCon 1200 串口模式DIP拨码开关				
DIP-SW1	DIP-SW2	DIP-SW3	DIP-SW4	Serial Mode and Description
OFF	OFF		ON (with T.R.) OFF (without T.R.)	RS-422 4-Wire Serial Mode, DIP-SW4 (120ohm line terminator resistor selection)
ON	OFF		ON (with T.R.) OFF (without T.R.)	RS-485 4-Wire Serial Mode, DIP-SW4 (120ohm line terminator resistor selection)
OFF	ON	OFF	ON (with T.R.) OFF (without T.R.)	RS-485 2-Wire Serial Mode without ECHO, DIP-SW4 (120ohm line terminator resistor selection)
OFF	ON	ON	ON (with T.R.) OFF (without T.R.)	RS-485 2-Wire Serial Mode with ECHO, DIP-SW4 (120ohm line terminator resistor selection)

Mini-USB接口: Mini-USB端口支持USB 1.1-2.0，吞吐量达12-480Mbps，还可以通过USB端口从PC取电，为转换器供电。请用标配的USB/Mini-USB线缆连接转换器和PC。

在PC上安装软件驱动

USB转串口转换器支持多种操作系统，针对不同的操作系统需要安装不同版的转换器驱动。要了解更多转换器信息或使用方法，请参阅用户手册，并安装标配驱动程序。

客户服务

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注意! 请勿于电源开启时插拔接线端子，以避免产生火花造成系统损坏。

此产品保证完全符合欧盟2003年1月27日电气和电子设备有害物质限制委员会所提出的限用指令2002/95/EC(ROHS禁令)及2011/65/EU(RoHS 2.0)。

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Granted Invention: I 313547
Granted Invention: I 321415
Granted Invention: I 344766
Granted Invention: I 346480
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Granted Invention: I 376118
Granted Invention: I 393317
Granted Invention: I 398066
Granted Invention: I 398125
Utility Model: M 339841
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