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A Beijer Electronics Group Company

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

KoreCARE is Korenix Technology's global service center, where our professional staffs are ready to solve your problems at any time Korenix global service center's e-mail is KoreCARE@korenix.com.

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