VXC-112AU/VXC-112iAU
VEX-112/VEX-112i

Serial Communication Card with 2 RS-232 ports

Features

- Built-in COM-Selector
- Short Card Design
- Provides 2 RS-232 ports
- 2500 V_{rms} Isolation for i versions
- +/-4 kV ESD Protection for i versions
- Supports 3.3 V/5 V PCI bus for VXC series
- Supports PCI Express bus for VEX series
- 128-byte Hardware FIFO for Each Port
- 128 KB Software Buffer (max.) for Each Port Under Windows
- RoHS compliant with no Halogen

Introduction

The VXC-112/VEX-112 series communication card provides 2 RS-232 serial ports. Each port equips a 128-byte hardware FIFO, offers speed up to 115200 bps and can work for half-duplex or full-duplex communication.

Users can select a specified COM port number manually by setting COM-Selector (DIP switch), or let the driver choose an available number automatically. The driver provides a maximum of 128 KB software buffer for each COM port under Windows. It's practical for large file transmission.

In harsh industrial environments, the onboard ESD protection component diverts the potentially damaging charge away from sensitive circuit and protects the computer and equipment from being damaged by high potential voltage.

The serial communication card are designed for use with intelligent devices like bar code reader, serial printers, intelligent sensors, instrumentation equipment, computers and almost any device with an RS-232 port.

Applications

- Industrial Machinery
- Building Automation
- Restaurant Appliances
- Laboratory Equipment & Research
- Industrial Communication

Software

- Driver for 32-bit and 64-bit Windows XP/2003/Vista/7
- Driver for Linux

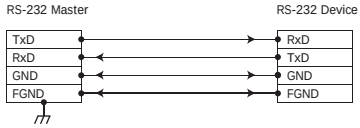
Hardware Specifications

Models	VXC-112AU	VXC-112iAU	VEX-112	VEX-112i
Communication Port				
COM1, COM2	RS-232 (TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND)			
UART	16C950 compatible			
Baud Rate	50 ~ 115200 bps			
Data Bit	5, 6, 7, 8			
Stop Bit	1, 1.5, 2			
Parity	None, Even, Odd, Mark, Space			
FIFO	Internal 128 bytes			
Isolated	-	2500 V_{rms}	-	2500 V_{rms}
General				
Bus Type	Universal PCI, 3.3 V/5 V, 33 MHz, 32-bit, Plug and Play		PCI Express x1, Plug and Play	
COM-Selector	Yes (8-bit DIP switch)			
Connector	2 x DB-9 (Male)			
Power Consumption	100 mA @ 5 V	480 mA @ 5 V	120 mA @ 5 V	440 mA @ 5 V
Operating Temperature	0 °C ~ +50 °C			
Storage Temperature	-20 °C ~ +70 °C			
Humidity	0 ~ 90% RH, non-condensing			
Dimensions (L x W x D)	134 mm x 90 mm x 22 mm		109 mm x 94 mm x 22 mm	

Wiring

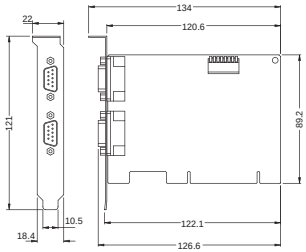
DTE Device (Computer) DB9		DTE to DCE Connections	DCE Device (Modem) DB9	
Pin# DB9	RS-232 Signal Names	Signal Direction	Pin# DB9	RS-232 Signal Names
#1 Carrier Detector	DCD	←	#1 Carrier Detector	DCD
#2 Receive Data	RxD	←	#2 Transmit Data	TxD
#3 Transmit Data	TxD	→	#3 Receive Data	RxD
#4 Data Terminal Ready	DTR	→	#4 Data Set Ready	DSR
#5 Signal Ground/Common (SG)	GND	↔	#5 Signal Ground/Common (SG)	GND
#6 Data Set Ready	DSR	←	#6 Data Terminal Ready	DTR
#7 Request to Send	RTS	→	#7 Clear to Send	CTS
#8 Clear to Send	CTS	←	#8 Request to Send	RTS
#9 Ring Indicator	RI	←	#9 Ring Indicator	RI
Soldered to DB9 Metal-Shield	FGND	↔	Soldered to DB9 Metal-Shield	FGND

3-wire RS-232 Wiring

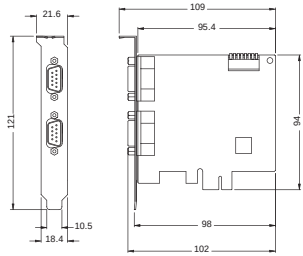


Dimensions (Unit: mm)

VXC-112AU/VXC-112iAU

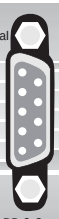


VEX-112/VEX-112i



Pin Assignments

Pin Assignment	Terminal	No.	Pin Assignment
GND	05	09	RI
DTR	04	08	CTS
TxD	03	07	RTS
RxD	02	06	DSR
DCD	01		



Male DB-9 Connector

Ordering Information

VXC-112AU CR **Art. No. 121795**	Universal PCI , Serial Communication Card with 2 RS-232 ports (RoHS)
VXC-112iAU CR **Art. No. 124942**	Universal PCI , Serial Communication Card with 2 Isolated RS-232 ports (RoHS)
VEX-112 CR **Art. No. 126273**	PCI Express, Serial Communication Card with 2 RS-232 ports (RoHS)
VEX-112i CR **Art. No. 126274**	PCI Express, Serial Communication Card with 2 Isolated RS-232 ports (RoHS)

Accessories

CA-0910F	9-Pin Female-Female D-Sub Cable 1 m
CA-0915	9-Pin Male-Female D-Sub Cable, 1.5 m
CA-PC09F	9-Pin Female D-Sub Connector with Plastic Cover
DN-09-2F	I/O Connector Block with DIN-Rail Mounting and Two 9-Pin Male Header. Includes CA-0910F x 2 (9-Pin Female-Female D-Sub Cable 1 m)