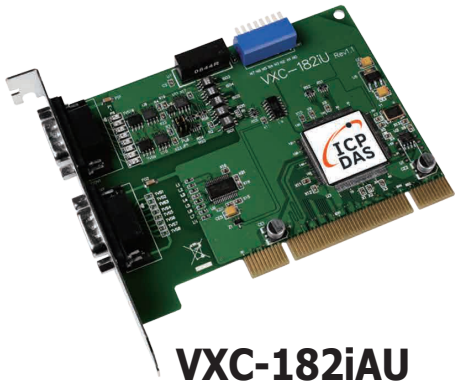


VXC-182iAU

Universal PCI, Serial Communication Board with 1 Isolated RS-422/485 port and 1 RS-232 port

Features

- Supports 3.3 V/5 V PCI bus
- Provides 1 isolated RS-422/485 port and 1 RS-232 port
- Built-in COM-Selector
- 128 KB Software Buffer (max.) for Each COM Port Under Windows
- 128-byte Hardware FIFO for Each Port
- ±4 kV ESD Protection for i versions
- 2500 VDC Isolation for RS-422/485 port
- Short Card Design

Introduction

The VXC-182iAU serial card provides two communication ports, one is RS-422/485 and the other is RS-232 port. It can be configured as either RS-485 for half-duplex or RS-422 for full-duplex communication, supports for speed up to 115200 bps and is capable of transmitting information over a long distance communication link.

Users may specify a COM port number manually by setting DIP switch, or let the driver choose an available number automatically. The driver provides a maximum of 128 KB software FIFO for each COM port under Windows. It's practical for large file transmission.

The data lines of each serial ports on i version VXC cards come with photocouplers design. The on-board photo couplers use a short optical transmission path to transfer a signal between elements of a circuit, and keep the data lines electrically isolated. It can help cutting down on ground loops, common mode voltages and block voltage spikes, provide electrical isolation, and offer significant protection from serious over-voltage conditions in one circuit affecting the other.

In harsh industrial environments, the on-board ESD protection component (for i version) diverts the potentially damaging charge away from sensitive circuit to protects the computer and equipment from the sudden and momentary electric current.

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

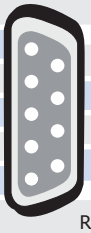
Hardware Specifications

Hardware	
Connector	2 x DB9 (Male)
COM-Selector	Yes (8-bit DIP switch)
COM Ports	
Ports	1 x RS-422/485 (RS-422: TxD+, TxD-, RxD-, RxD+, RTS+, RTS-, CTS+, CTS-, GND / RS-485: Data+, Data-, GND) 1 x RS-232 (RxD, TxD, CTS, RTS, DSR, DTR, DCD, RI, GND)
Baud Rate	50 - 115200 bps
Parity	None, Even, Odd, Mark, Space
Data Bit	5, 6, 7, 8
Stop Bit	1, 1.5, 2
FIFO Size	Internal 128 bytes
Isolation	2500 V_{DC} for RS-422/485 port
Power	
Consumption	200 mA @ 5 V
Mechanical	
Dimensions (mm)	90 x 134 x 22 (W x L x D)
Environment	
Operating Temperature	0 ~ +60°C
Storage Temperature	-20 ~ +70°C
Humidity	5 ~ 85% RH, Non-condensing

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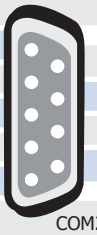
Pin Assignments

Pin Assignment	Terminal No.		Pin Assignment
GND/VEE	05	09	CTS-(A)
RxD-(A)	04	08	CTS+(B)
RxD+(B)	03	07	RTS+(B)
TxD+(B)/Data+(B)	02	06	RTS-(A)
TxD-(A)/Data-(A)	01		



RS-422/485 Male DB-9 Connector

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



COM2: RS-232 Male DB-9 Connector

Software

Drivers
☑ 32-bit and 64-bit Windows XP/2003/Vista/7
☑ Linux

Ordering Information

VXC-182iAU CR	Universal PCI, Serial Communication Board with 1 Isolated RS-422/485 port and 1 RS-232 port (RoHS)

Accessories

 CA-0910F CR	9-Pin Female-Female D-Sub Cable 1 m
 CA-0915 CR	9-Pin Male-Female D-Sub Cable, 1.5 m
 CA-PC09F CR	9-Pin Female D-Sub Connector with Plastic Cover
 DN-09-2F CR	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)

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