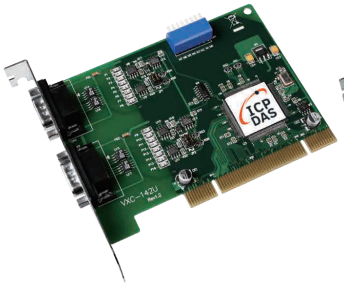
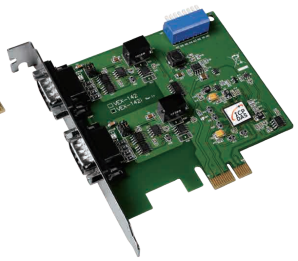
VXC-142AU/VXC-142iAU



VEX-142/VEX-142i



VXC-142AU/VXC-142iAU
VEX-142/VEX-142i

Serial Communication Card with 2 RS-422/485 ports

Features

- Built-in COM-Selector
- Provides 2 RS-422/485 ports
- 128 KB Software Buffer (max.) for Each COM Port Under Windows
- ±4 kV ESD Protection for i versions
- Supports 3.3 V/5 V PCI bus for U versions
- Short Card Design
- 2500 V_{DC} Isolation for i versions
- 128-byte Hardware FIFO for Each Port
- Supports PCI Express bus for VEX series

Introduction

The VXC-142/VEX-142 series card provides 2 RS-422/RS-485 serial ports. Each port can be configured as either RS-485 for half-duplex or RS-422 for full-duplex communication. It supports for speed up to 115200 bps and supports full-duplex communication.

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/VEX 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.

Applications

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

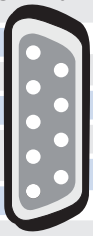
Hardware Specifications

Models	VXC-142AU	VXC-142iAU	VEX-142	VEX-142i
Hardware				
Connector	2 x DB9 (Male)			
COM-Selector	Yes (8-bit DIP switch)			
COM Ports				
Ports	2 x RS-422/485 (RS-422: TxD+, TxD-, RxD+, RxD-, RTS+, RTS-, CTS+, CTS-, GND / RS-485: Data+, Data-, 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}	–	2500 V_{DC}
Power				
Consumption	100 mA @ 5 V	480 mA @ 5 V	120 mA @ 5 V	440 mA @ 5 V
Mechanical				
Dimensions (mm)	90 x 134 x 22 (W x L x D)		94 x 110 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		
RxD-(A)	04	09	CTS-(A)
RxD+(B)	03	08	CTS+(B)
TxD+(B)/ Data+(B)	02	07	RTS+(B)
		06	RTS-(A)
TxD-(A)/Data-(A)	01		



RS-422/485 Male DB-9 Connector

Software

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

Ordering Information

VXC-142AU CR	Universal PCI, Serial Communication Board with 2 RS-422/485 ports (RoHS)
VXC-142iAU CR	Universal PCI, Serial Communication Board with 2 Isolated RS-422/485 ports (RoHS)
VEX-142 CR	PCI Express, Serial Communication Board with 2 RS-422/485 ports (RoHS)
VEX-142i CR	PCI Express, Serial Communication Board with 2 Isolated RS-422/485 ports (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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