



### Features

- Built-in COM-Selector
- Short Card Design
- Provides 2 RS-422/485 ports
- +/-4 kV ESD Protection
- 128-byte Hardware FIFO for Each Port
- Supports 3.3 V/5 V PCI bus, Plug and Play

### Introduction

The VXC-142 series card provides two RS-422/RS-485 serial ports and supports 3.3 V/5 V PCI bus. The VXC-142iU card also supports isolation voltage up to 2.5 kV. Each port can be configured as either RS-485 for half-duplex or RS-422 for full-duplex communication. It equips a 128-byte hardware FIFO for each port, offers speed up to 115200 bps and supports full-duplex communication.

Users can select a specified 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.

In harsh industrial environments, the on board 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

- DOS Lib
- Driver for Windows NT 4.0
- Driver for Windows 2000/XP/2003/Vista (32-bit)
- Driver for Linux

### Hardware Specifications

Models	VXC-142U	VXC-142iU
<b>Communication Port</b>		
COM1, COM2	RS-422/485	The RS-422 and RS-485 cannot be used simultaneously
	RS-422	TxD+, TxD-, RxD+, RxD-, RTS+, RTS-, CTS+, CTS-, GND
	RS-485	Data+, Data-, 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 <sub>rms</sub>
<b>General</b>		
Bus Type	Universal PCI, 3.3 V and 5 V, 33 MHz, 32-bit, Plug and Play	
COM-Selector	Yes (8-bit DIP switch)	
Connector	2 x Male DB-9	
Power Consumption	100 mA @ 5 V	480 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	

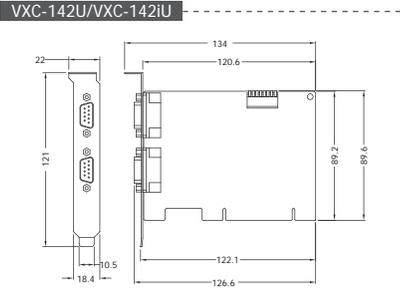
**Pin Assignments**

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		

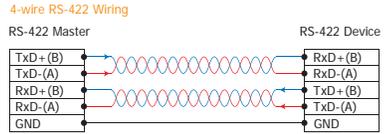
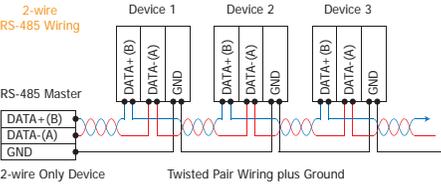


RS-422/485 Male DB-9 Connector

**Dimensions (Unit: mm)**



**Wiring**



**Ordering Information**

VXC-142U CR	Universal PCI Bus, Serial Communication Board with 2 RS-422/485 ports (RoHS)
VXC-142IU CR	Universal PCI Bus, Serial Communication Board with 2 Isolated RS-422/485 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)