

## VEX-114/VEX-114i/VXC-114U/ VXC-114IAU

PCI Express/Universal PCI, 4-Port RS-232  
Communication Board



### Features ▶▶▶▶

- VXC versions supports 3.3 V/5 V PCI bus
- Built-in COM-Selector
- 128-byte Hardware FIFO for Each Port
- 2500 V<sub>DC</sub> Isolation for VEX-114i/VXC-114IAU
- VEX versions supports PCI Express bus
- Provides 4 RS-232 ports
- +/- 4 kV ESD Protection for VEX-114i/VXC-114IAU
- Short Card Design

### Introduction

The VEX-114/VEX-114i/VXC-114U/VXC-114IAU communication card provides 4 RS-232 serial ports. Each port supports for speed up to 115200 bps and can work for full-duplex communication.

Users may specify a 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 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 VEX-114i/VXC-114IAU offers photo isolation to protect your computer and equipment against damages in harsh environment. The built-in photo coupler 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.

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.

### Software

- Drivers for 32-bit Windows 2000 XP/2003/Vista/7
- Drivers for 64-bit Windows XP/2003/Vista/7

### Hardware Specifications

Models	VEX-114	VEX-114i	VXC-114U	VXC-114IAU
Serial Port				
COM1 ~ 4	9-Wire RS-232			
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			
ESD Protection	—	+/- 4 kV	—	+/- 4 kV
Isolation	—	2500 V <sub>DC</sub>	—	2500 V <sub>DC</sub>
General				
Bus	PCI Express x1		3.3 V/5 V, 33 MHz, 32-bit	
COM-Selector	Yes (8-bit DIP switch)			
Connector	Female DB-37 x 1			
Power Consumption	120 mA @ 5 V	880 mA @ 5 V	120 mA @ 5 V	880 mA @ 5 V
Operating Temperature	0 °C ~ +60 °C			
Humidity	0 ~ 90% RH, non-condensing			

### Pin Assignments

Pin Assignment	Terminal No.	Pin Assignment
N.C.	01	20 RI3
DCD3	02	21 DTR3
GND	03	22 DSR3
CTS3	04	23 RTS3
RxD3	05	24 TxD3
RI4	06	25 DCD4
DTR4	07	26 GND
DSR4	08	27 CTS4
RTS4	09	28 RxD4
TxD4	10	29 RI2
DCD2	11	30 DTR2
GND	12	31 DSR2
CTS2	13	32 RTS2
RxD2	14	33 TxD2
RI1	15	34 DCD1
DTR1	16	35 GND
DSR1	17	36 CTS1
RTS1	18	37 RxD1
TxD1	19	

RS-232 Female DB-37 Connector

### Ordering Information

VEX-114 CR	PCI Express, 4-Port RS-232 Communication Board (RoHS) Art. No. 124454
VEX-114i CR	PCI Express, 4-Port Isolated RS-232 Communication Board (RoHS) Art. 124536
VXC-114U CR	Universal PCI, 4-Port RS-232 Communication Board (RoHS) Art. No. 119110
VXC-114IAU CR	Universal PCI, 4-Port Isolated RS-232 Communication Board (RoHS) Art. 124491

### Accessories

CA-9-3705	DB-37 Male (D-sub) to 4-Port DB-9 Male (D-sub) cable. 0.3 M (90°)
CA-9-3715D	DB-37 Male (D-sub) to 4-Port DB-9 Male (D-sub) cable. 1.5 M (180°)

For latest driver update information please refer to [www.spectra.de/driver](http://www.spectra.de/driver)