

VXC-144U/VXC-144iU

VEX-144/VEX-144i



## VXC-144U/VXC-144iU VEX-144/VEX-144i

Serial Communication Card with 4 RS-422/485 ports

### Features

- 128-byte Hardware FIFO for Each Port
- Supports 3.3 V/5 V PCI Bus for U versions
- ±4 kV ESD Protection for i versions
- Supports pull-high/-low jumpers on RS-485 port
- Supports PCI Express x1 for VEX series
- Automatic RS-485 Direction Control
- Built-in COM-Selector
- Provides 2 RS-422/485 ports
- 2500 Vrms Isolation for i versions
- Short Card Design
- RoHS compliant & no Halogen



### Hardware Specifications

Models	VXC-144U	VXC-144iU	VEX-144	VEX-144i
Communication Port				
COM1 ~ COM4	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 (Automatic RS-485 Direction Control)		
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 Vrms	-	2500 Vrms
General				
Bus Type	Universal PCI, 3.3 V and 5 V, 33 MHz, 32-bit, Plug and Play		PCI Express x1, Plug and Play	
COM-Selector	Yes (8-bit DIP switch)			
Connector	Female DB-37			
Power Consumption	120 mA @ 5 V	880 mA @ 5 V	120 mA @ 5 V	880 mA @ 5 V
Operating Temperature	0 ~ 60°C			
Storage Temperature	-20 ~ 70°C			
Humidity	5 ~ 85% RH, non-condensing			
Dimensions (W x L x D) (Unit: mm)	84 x 142 x 22	95 x 142 x 22	101 x 114 x 22	

### Ordering Information

<b>VXC-144U CR</b>	Universal PCI, Serial Communication Card with 4 RS-422/485 ports (RoHS). Includes One CA-4002 Connector
<b>VXC-144iU CR</b>	Universal PCI, Serial Communication Card with 4 Isolated RS-422/485 ports (RoHS). Includes One CA-4002 Connector
<b>VEX-144 CR</b>	PCI Express, Serial Communication Card with 4 RS-422/485 ports (RoHS). Includes One CA-4002 Connector
<b>VEX-144i CR</b>	PCI Express, Serial Communication Card with 4 Isolated RS-422/485 ports (RoHS). Includes One CA-4002 Connector

### Accessories

CA-4002		37-Pin Male D-Sub Connector with Plastic Cover
CA-9-3715D		Male DB-37 to 4-port Male DB-9 Cable, 1.5 M (180°)
CA-9-3705		Male DB-37 to 4-port Male DB-9 Cable, 0.3 M (90°)

### Software

#### Drivers

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

### Pin Assignments

Pin Assignment	Terminal No.	Pin Assignment
N.C.	01	20 CTS3-(A)
TxD3-(A)/Data3-(A)	02	21 RxD3-(A)
GND	03	22 RTS3-(A)
CTS3+(B)	04	23 RTS3+(B)
N.C.	05	24 RxD3+(B)
CTS4-(A)	06	25 TxD4-(A)/Data4-(A)
RxD4-(A)	07	26 GND/VEE4
RTS4-(A)	08	27 CTS4+(B)
RTS4+(B)	09	28 TxD4+(B)/Data+(B)
RxD4+(B)	10	29 CTS2-(A)
TxD2-(A)/Data2-(A)	11	30 RxD2-(A)
GND/VEE2	12	31 RTS2-(A)
CTS2+(B)	13	32 RTS2+(B)
TxD2+(B)/Data2+(B)	14	33 RxD2+(B)
CTS1-(A)	15	34 TxD1-(A)/Data1-(A)
RxD1-(A)	16	35 GND/VEE1
RTS1-(A)	17	36 CTS1+(B)
RTS1+(B)	18	37 TxD1+(B)/Data1+(B)
RxD1+(B)	19	

RS-422/485 Female DB-37 Connector

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 Female DB-37 to Male DB-9 Connector