Available Soon

Features

- VXC versions supports 3.3 V/5 V PCI bus
- VEX versions supports PCI Express bus
- Built-in COM-Selector
- Provides 4 RS-422/485 ports
- 128-byte Hardware FIFO for Each Port
- +/-4 kV ESD Protection for VEX-144i/VXC-144iU
- 2500 V_{DC} Isolation for VEX-144i/VXC-144iU
- Short Card Design

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

PCI Express / Universal PCI, 4-Port RS-422/485 Communication Board

CE FC RoHS

Introduction

The VEX-144/VEX-144i/VXC-144U/VXC-144iU communication card provides 4 RS-422/485 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-144/VXC-144iU 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-422/485 port.

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Hardware Specifications

Serial Port					
COM1~4	Selectable 8-Wire RS-422 or 2-Wire RS-485			UART	16C950 compatible
Baud Rate	50 ~ 115200 bps	Data Bit	5, 6, 7, 8	Parity	None, Even, Odd, Mark, Space
FIFO	Internal 128 bytes	ESD Protection	+/- 4 kV (VEX-144i/VXC-144iU)	Isolation	2500 V_{DC} (VEX-144i/VXC-144iU)
General					
Bus	VEX versions: PCI Express x1; VXC versions: 3.3 V/5 V, 33 MHz, 32-bit			COM-Selector	Yes (8-bit DIP switch)
Connector	Female DB-37 x 1	Power Consumption	VEX-144: 120 mA @ 5 V; VEX-144i: 880 mA @ 5 V; VXC-144U: 120 mA @ 5 V; VXC-144iU: 880 mA @ 5 V		

Pin Assignments

Pin Assignment	Terminal	No.	Pin Assignment
N.C.	01		
TxD3-(A)/Data3-(A)	02	20	CTS3-(A)
GND/VEE3	03	21	RxD3-(A)
CTS3+(B)	04	22	RTS3-(A)
TxD3+(B)/Data3+(B)	05	23	RTS3+(B)
CTS4-(A)	06	24	RxD3+(B)
RxD4-(A)	07	25	TxD4-(A)/Data4-(A)
RTS4-(A)	08	26	GND/VEE4
RTS4+(B)	09	27	CTS4+(B)
RxD4+(B)	10	28	TxD4+(B)/Data+(B)
TxD2-(A)/Data2-(A)	11	29	CTS2-(A)
GND/VEE2	12	30	RxD2-(A)
CTS2+(B)	13	31	RTS2-(A)
TxD2+(B)/Data2+(B)	14	32	RTS2+(B)
CTS1-(A)	15	33	RxD2+(B)
RxD1-(A)	16	34	TxD1-(A)/Data1-(A)
RTS1-(A)	17	35	GND/VEE1
RTS1+(B)	18	36	CTS1+(B)
RxD1+(B)	19	37	TxD1+(B)/Data1+(B)

RS-422/485 Female DB-37 Connector

Software

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

Ordering Information

VEX-144 CR	PCI Express, 4-Port RS-422/485 Communication Board (RoHS)
VEX-144i CR	PCI Express, 4-Port Isolated RS-422/485 Communication Board (RoHS)
VXC-144U CR	Universal PCI, 4-Port RS-422/485 Communication Board (RoHS)
VXC-144iU CR	Universal PCI, 4-Port Isolated RS-422/485 Communication Board (RoHS)