

NEW VXC-144U/VXC-144iU Available VXC-144E/VXC-144iE

Serial Communication Board with 4 RS-422/485 ports

Introduction.

The VXC-144U/VXC-144E card provides 4 non-isolated RS-422/RS-485 serial ports and the VXC-144iU/VXC-144iE card provides 4 isolated RS-422/RS-485 serial ports which withstand isolation voltage up to 3 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 long distance communication link.

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.

Features Provides 4 RS-422/485 ports 128-byte Hardware FIFO for Each Port Built-in COM-Selector +/-4 kV ESD Protection Short Card Design Up to 128 kB Software FIFO for Each COM Port Under Windows DOS, Windows NT/2K/XP/2003 and Linux Driver Supported VXC-144U/VXC-144U Only

- Supports 3.3 V/5 V PCI Bus, Plug and Play VXC-144E/VXC-144iE Only
- Supports PCI Express x 1, Plug and Play VXC-144iU/VXC-144iE Only
- 2500 Vrms Isolation



Applications.

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

Software_

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

Hardware Specifications

Models		VXC-144U	VXC-144iU	VXC-144E	VXC-144iE			
Communication Por	t							
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						
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, PCI Express x1, Plug and Play						
		Plug and Play mechanism			j aliu 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 °C ~ +50 °C						
Storage Temperature		-20 °C ~ +70 °C						
Humidity		0 ~ 90% RH, non-condensing						
Dimensions (L x W x D)		142 mm x 84 mm x 22 mm 142 mm x 95 mm x 22 mm 114 mm x 101 mm x 22 mm						

Pin Assignments ____

Pin Assignment	Terminal	4	No.	Pin Assignment
N.C.	01		20	CTS3-(A)
TxD3-(A)/Data3-(A)	02		21	RxD3-(A)
GND/VEE3	03		22	RTS3-(A)
CTS3+(B)	04		23	RTS3+(B)
TxD3+(B)/Data3+(B)	05		23	RxD3+(B)
CTS4-(A)	06		24	TxD4-(A)/Data4-(A)
RxD4-(A)	07		25	GND/VEF4
RTS4-(A)	08		20	CTS4+(B)
RTS4+(B)	09		27	TxD4+(B)/Data+(B)
RxD4+(B)	10		20	CTS2-(A)
TxD2-(A)/Data2-(A)	11	•	30	RxD2-(A)
GND/VEE2	12	•	31	RTS2-(A)
CTS2+(B)	13	•		
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
	- 4		·	

Pin Assignment	Terminal	9	No.	Pin Assignment
GND/VEE	05		09	CTS-(A)
RxD-(A)	04		08	CTS+(B)
RxD+(B)	03	• •		.,
TxD+(B)/Data+(B)	02	• •	07	RTS+(B)
TxD-(A)/Data-(A)	01		06	RTS-(A)
		O		
RS-422/485	Female DI	3-37 to	Male DB	-9 Connector

Dimensions (Unit: mm)

Wiring

Device 1

DATA-(A)

GND

DATA+(B)

Device 2

(DATA-(A)

Twisted Pair Wiring plus Ground

GND

DATA+(B)

Device 3

GND

(DATA+(B) DATA-(A)

RS-422 Device

RxD+(B)

• RxD-(A)

TxD+(B)

TxD-(A)

GND

2-wire RS-485 Wiring

RS-485 Master DATA+(B) DATA-(A) GND 2-wire Only Device

4-wire RS-422 Wiring RS-422 Master

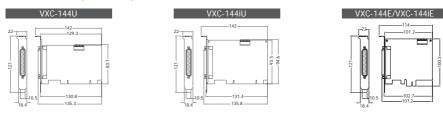
TxD+(B)

TxD-(A)

RxD+(B)

RxD-(A)

GND



Ordering Information _

Universal PCI, Serial Communication Board with 4 RS-422/485
ports (RoHS). Includes One CA-4002 Connector
Universal PCI, Serial Communication Board with 4 Isolated
RS-422/485 ports (RoHS)
Includes One CA-4002 Connector
PCI Express, Serial Communication Board with 4 RS-422/485
ports (RoHS). Includes One CA-4002 Connector
PCI Express, Serial Communication Board 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 Male DB-9 Cable, 1.5 m		
CA-9-3715D	For VXC Series (180°)		