

NEW

VXC-182iU

Serial Communication Board with 1 Isolated RS-422/485 port and 1 RS-232 port

Introduction.

The VXC-182IU serial card provides two communication ports, one is RS-422/485 and the other is RS-232 port. RS-422/RS-485 serial ports can withstand isolation voltage up to 2.5 kV. It can be configured as either RS-485 for half-duplex or RS-422 for full-duplex communication, offers speed up to 15200 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

- Built-in COM-Selector
- Short Card Design
- Provides 1 isolated RS-422/485 port and 1 RS-232 Port
- +/-4 kV ESD Protection
- Self-Tuner Inside
- 2500 Vrms Isolated RS-422/485 Port
- Up to 128 KB Software FIFO for Each COM Port Under Windows
- Supports 3.3 V/5 V PCI bus, Plug and Play
- 128-byte Hardware FIFO for Each Port

Applications.

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

Software.

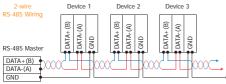
- DOS Lib
- Driver for Windows NT 4.0
- Driver for Windows 2000/XP/2003/Vista (32-bit)
- Driver for Linux

Hardware Specifications.

Communication Port					
COM1	RS-422/485	The RS-422 and RS-485 cannot be used simultaneously			
	RS-422	TxD+, TxD-, RxD+, RxD-, RTS+, RTS-, CTS+, CTS-, GND (with 2.5 kV Isolation)			
	RS-485	Data+, Data-, GND (with 2.5 kV Isolation)			
COM2		RS-232 (TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, 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			
General					
Bus Type		Universal PCI, 3.3 V and 5 V, 33 MHz, 32-bit, Plug and Play mechanism			
COM-Selector		Yes (8-bit DIP switch)			
Connector		2 x DB-9 (Male)			
Power Consumption		200 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			

Viring _____

DTE Device (Computer)	DB-9	DTE to DCE Connections	DCE Device (Modem) D	B-9
Pin# DB-9 RS-232 Signal Names		Signal Direction	Pin# DB-9 RS-232 Signal	Names
#1 Carrier Detector	DCD	<	 #1 Carrier Detector 	DCD
#2 Receive Data	RxD		#2 Transmit Data	TxD
#3 Transmit Data	TxD	───	#3 Receive Data	RxD
#4 Data Terminal Ready	DTR	───	#4 Data Set Ready	DSR
#5 Signal Ground/Common (SG)	GND		#5 Signal Ground/Common (SG)	GND
#6 Data Set Ready	DSR		 #6 Data Terminal Ready 	DTR
#7 Request to Send	RTS	───	#7 Clear to Send	CTS
#8 Clear to Send	CTS		#8 Request to Send	RTS
#9 Ring Indicator	RI		#9 Ring Indicator	RI
Soldered to DB-9 Metal Shield	FGND	→	Soldered to DB-9 Metal Shield	FGND



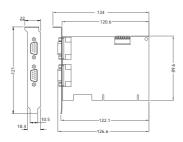
2-wire Only Device

Twisted Pair Wiring plus Ground

Pin Assignments

Pin Assignment	Terminal	Q	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	69	00	K13*(A)
COM1: RS-422/485 Male DB-9 Connector				

Dimensions (Unit: mm)



Pin Assignment	Terminal	No.	Pin Assignment
GND	05	09	RI
DTR	04	08	CTS
TxD	03	07	RTS
RxD	02		
DCD	01	06	DSR
)	
CO	/2: RS-232 Ma	le DB-9 Con	nector

Ordering Information_

4-wire RS-422 Wiring

RS-422 Master

TxD+(B)

TxD-(A)

RxD+(B)

RxD-(A)

GND

	Universal PCI Bus, Serial Communication Board with 1
VXC-18210 CR	Isolated RS-422/485 port and 1 RS-232 port (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-090910	9-Pin Female D-Sub Cable for RS-422 Connector, 1 m
CA-PC09F	9-Pin Female D-Sub Connector with Plastic Cover
	I/O Connector Block with DIN-Rail Mounting and
DN-09-2F	Two 9-Pin Male Header.
DIN-09-2F	Includes CA-0910F x 2
	(9-Pin Female-Female D-Sub Cable 1 m)

Multi-port Serial Cards

RS-422 Device

RxD+(B) RxD-(A)

TxD+(B) TxD-(A)

GND