



NEW VXC-114U/VXC-114IU
Available soon VXC-114E/VXC-114IE
 Serial Communication Board with 4 RS-232 ports

Introduction

The VXC-114 series card provides 4 RS-232 serial ports. It equips a 128-byte hardware FIFO for each port, offers speed up to 115200 bps and supports full-duplex communication.

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 4 RS-232 ports
- +/-4 kV ESD Protection
- 128-byte Hardware FIFO for Each Port
- 128 KB Software Buffer (max.) for Each COM Port Under Windows
- Supports 3.3 V/5 V PCI bus for VXC-114U/VXC-114IU
- Supports PCI Express x 1 for VXC-114E/VXC-114IE
- 2500 V_{rms} Isolation for VXC-114IU/VXC-114IE



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

Models	VXC-114U	VXC-114IU	VXC-114E	VXC-114IE
Communication Port				
COM1 – COM4	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			
Isolated	-	2500 V _{rms}	-	2500 V _{rms}
General				
Bus Type	Universal PCI, 3.3 V and 5 V, 33 MHz, 32-bit, Plug and Play mechanism		PCI Express x1, Plug and Play	
COM-Selector	Yes (8-bit DIP switch)			
Connector	DB-37 (Female)			
Power Consumption	120 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	133 mm x 93 mm x 22 mm	110 mm x 110 mm x 22 mm	

Wiring

DTE Device (Computer)		DB-9	DTE to DCE Connections		DCE Device (Modem)		DB-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

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

Pin Assignment	Terminal	No.	Pin Assignment
GND	05	09	RI
DTR	04	08	CTS
TxD	03	07	RTS
RxD	02	06	DSR
DCD	01		



RS-232 Female DB-37 to Male DB-9 Connector

Ordering Information

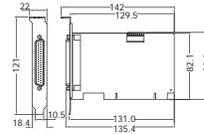
VXC-114U CR	Universal PCI, Serial Communication Board with 4 RS-232 ports (RoHS). Includes One CA-4002 Connector
VXC-114U/D2 CR	Universal PCI, Serial Communication Board with 4 RS-232 ports (RoHS). Includes One CA-9-3715D Cable
VXC-114E CR	PCI Express, Serial Communication Board with 4 RS-232 ports (RoHS). Includes One CA-4002 Connector
VXC-114E/D2 CR	PCI Express, Serial Communication Board with 4 RS-232 ports (RoHS). Includes One CA-9-3715D Cable
VXC-114IU CR	Universal PCI, Serial Communication Board with 4 Isolated RS-232 ports (RoHS). Includes One CA-4002 Connector
VXC-114IU/D2 CR	Universal PCI, Serial Communication Board with 4 Isolated RS-232 ports (RoHS). Includes One CA-9-3715D Cable
VXC-114IE CR	PCI Express, Serial Communication Board with 4 Isolated RS-232 ports (RoHS). Includes One CA-4002 Connector
VXC-114IE/D2 CR	PCI Express, Serial Communication Board with 4 Isolated RS-232 ports (RoHS). Includes One CA-9-3715D Cable

Accessories

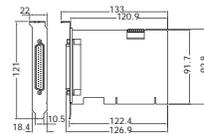
CA-4002	37-Pin Male D-Sub Connector with Plastic Cover
CA-9-3715D	Male DB-37 to 4 Male DB-9 Cable, 1.5 m For VXC Series (180°)

Dimensions (Unit: mm)

VXC-114U



VXC-114IU



VXC-114E/VXC-114IE

