



PCIe-S144i

PCI Express, Serial Communication Board with
4 Isolated RS-422/485 ports

Features

- Supports PCI Express x1
- Provides 4 RS-422/485 ports
- 256-byte Hardware FIFO for Each Port
- Transmission Speed of up to 921600 bps
- 256 modules max. in one RS-485 network
- Automatic RS-485 direction control
- ±4 kV ESD Protection for i versions
- 3000 VDC Isolation for i versions
- Short Card Design



Hardware Specifications

Models	PCIe-S144i
Hardware	
Connector	DB-37 (Female)
COM Ports	
Ports	4 x RS-422/485 (RS-422: TxD+, TxD-, RxD+, RxD-, RTS+, RTS-, CTS+, CTS-, GND / RS-485: Data+, Data-, GND)
Baud Rate	300 - 921600 bps
Parity	None, Even, Odd, Mark, Space
Data Bit	5, 6, 7, 8
Stop Bit	1, 1.5, 2
FIFO Size	Internal 256 bytes
Isolation	3000 VDC
Power	
Consumption	440 mA @ 5 V
Mechanical	
Dimensions (mm)	101 x 114 x 22 (W x L x D)
Environmental	
Operating Temperature	0 ~ +60°C
Storage Temperature	-20 ~ 70°C
Humidity	5 ~ 85% RH, Non-condensing

Ordering Information

PCIe-S144i	PCI Express, Serial Communication Board with 4 Isolated RS-422/485 ports (RoHS)
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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-PC09F		9-Pin Female D-Sub Connector with Plastic Cover
DN-09-2F		I/O Connector Block with DIN-Rail Mounting and Two 9-Pin Male Header. Includes CA-0910F x 2 (9-Pin Female-Female D-Sub Cable 1 m)

Software

Drivers

- 32-bit and 64-bit Windows XP/2003/2008/7/8/10
- 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)
TxD3+(B)/Data3+(B)	05	24 RxD3+(B)
CTS4-(A)	06	25 TxD4-(A)/Data4-(A)
RxD4-(A)	07	26 GND
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	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
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	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