



# PCard-E3021L-SI-D5

# PCard-E3021L-I-D5

**Industrial 2-Ports RS-232/422/485 PCI Express Card  
With Low Profile and 3KV Serial Isolation**



## Features

- PCI Express x1 compliant
- Support Serial Ports for RS-232/RS-422/4W-RS-485/2W-RS-485
- Support Baudrate from 75~921.6 Kbps
- Support 128-Byte FIFO
- Support HW, SW Flow Control
- Low Profile for Small Size PC
- 3KV Serial Isolation Protect
- Serial Line 6KV Surge Protect for -SI Model



## Introduction

The 2 Ports PCI Express Cards are designed for POS, ATM and KIOSK applications. Each card supports 75~921600 baudrate. The PCard-E3021L-SI-D5 is for 6KV surge protect model. In addition, the PCard-E3021L-SI-D5 and PCard-E3021L-I-D5 provide full modem control signals to ensure compatibility with a wide range of serial peripherals.

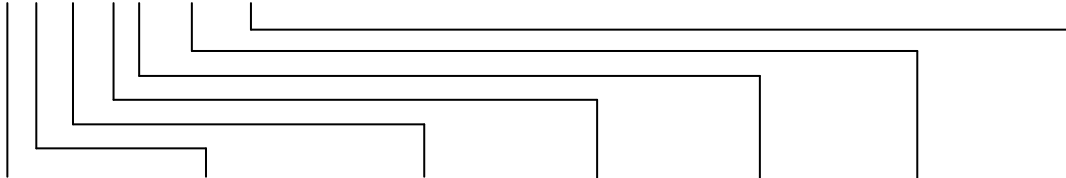
## Specifications

ORing Model	PCard-E3021L-SI-D5	PCard-E3021L-I-D5
<b>Serial Port</b>		
Connector	DB25(Female) x 1	
Ports	2	
Operation Mode	RS-232 / RS-422 / 4(2)-Wire RS-485	
Serial Baud Rate	75 bps to 921.6 Kbps	
Data Bits	5, 6, 7, 8	
Parity	odd, even, none, mark, space	
Stop Bits	1, 1.5, 2	

RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422	Tx+,Tx-, Rx+, Rx-,GND
RS-485 (2-wire)	D+, D-, GND
RS-485 (4-wire)	Tx+,Tx-, Rx+, Rx-,GND
Flow Control	RTS/CTS, Xon/Xoff
<b>LED Indicator</b>	
Serial TX LEDs	Green: Serial port is transmitting data (TX)
Serial RX LEDs	Amber: Serial port is receiving data (RX)
<b>Power Consumption</b>	
PCard-E3021L-SI-D5	630 mA @ 3.3 VDC
PCard-E3021L-I-D5	630 mA @ 3.3 VDC
<b>Standards and Certification</b>	
EMC	EN 55032/24
EMI	CISPR 22, FCC Part 15B Class B
EMS	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV
	IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m
	IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV
	IEC 61000-4-5 Surge: Power: 2 kV; Signal : 6 KV ( only for -SI model )
	IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m
	IEC 61000-4-8 PFMF
<b>Physical Characteristic</b>	
PCard-E3021L-SI-D5	67.2 x 101.8 mm
PCard-E3021L-I-D5	67.2 x 101.8 mm
<b>Environmental</b>	
Storage Temperature	-40 to 85°C
Operating Temperature	-40 to 75°C
Operating Humidity	5% to 95% Non-condensing
<b>Warranty</b>	5 years

## Ordering Information

PCard- **A** **B** **C** **D** **E** **F** - **G** - **H**



Code Definition	Card Type	Serial Type	Serial Port Number	Convert Port Number	Card Size	Protection	Connector Type
<b>Option</b>	E: PCI-E	1: RS-232 2: RS-422/485 3: RS-232/422/485	02 : 2 Ports 04 : 4 Ports 08 : 8 Ports 16 : 16 Ports	1: 1 Port	L : Low Profile NA: Standard	S : Surge I : Isolation NA: None	D9 : DB9 D5 : DB25 D4 : DB44 D8 : DB78 VH: VHDCI

Model Name	Description
<b>PCard-E3021L-SI-D5</b>	Industrial 2-Ports RS-232/422/485 PCI Express Card with Low Profile, 6KV Serial surge protection and 3KV Serial Isolation
<b>PCard-E3021L-I-D5</b>	Industrial 2-Ports RS-232/422/485 PCI Express Card with Low Profile and 3KV Serial Isolation

DIP Switch Definition for RS485

PIN1/PIN2	Pull Hi/Lo
PIN3	Terminator

PIN	RS232	RS422	4W-RS485	2W-RS485
1	DCD	TX-	TX-	--
2	RXD	TX+	TX+	--
3	TXD	RX+	RX+	D+
4	DTR	RX-	RX-	D-
5	GND	GND	GND	GND
6	DSR	--	--	--
7	RTS	--	--	--
8	CTS	--	--	--
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### Packing List

- PCard-E3021L-SI-D5 or PCard-E3021L-I-D5
- Quick Installation Guide x 1
- Standard profile bracket

### Cable order information (Optional)

Model Name	Description
CY-AS-WL0-011	DB25 Male to DB9 Male, 50cm
CY-AS-WL0-008	DB9 Male to DB9 Female, 150cm



DB25M to DB9Mx2



DB9M to DB9F