



PCard-E2021L-S-D5

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**Industrial 2-Ports RS-422/485 PCI Express Card
With Low Profile and 6KV Surge Protection**



Features

- PCI Express x1 compliant
- Support Serial Ports for 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
- Serial Line 6KV Surge Protect for -S Model



Introduction

The 2 Ports PCI Express Cards are designed for POS, ATM and KIOSK applications. Each card supports 75~921600 baudrate. The PCard-E2021L-S-D5 is for 6KV surge protect model. In addition, the PCard-E2021L-S-D5 and PCard-E2021L-D5 provide full modem control signals to ensure compatibility with a wide range of serial peripherals.

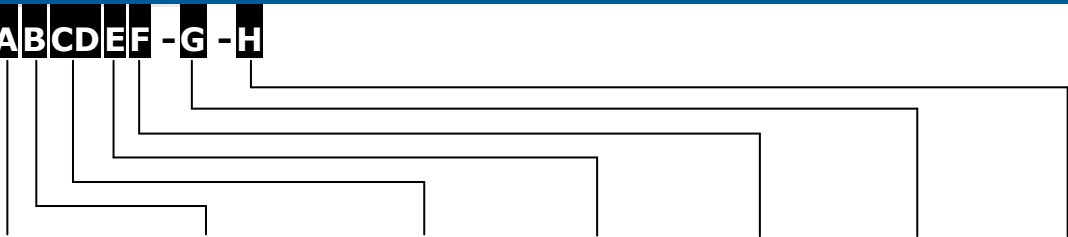
Specifications

ORing Model	PCard-E2021L-S-D5	PCard-E2021L-D5
Serial Port		
Connector	DB25(Female) x 1	
Ports	2	
Operation Mode	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-422	Tx+,Tx-, Rx+, Rx-,GND
RS-485 (2-wire)	D+, D-, GND
RS-485 (4-wire)	Tx+,Tx-, Rx+, Rx-,GND
Flow Control	Xon/Xoff
LED Indicator	
Serial TX LEDs	Green: Serial port is transmitting data (TX)
Serial RX LEDs	Amber: Serial port is receiving data (RX)
Power Consumption	
PCard-E2021L-S-D5	630 mA @ 3.3 VDC
PCard-E2021L-D5	630 mA @ 3.3 VDC
Standards and Certification	
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 -S model)
	IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m
	IEC 61000-4-8 PFMF
Physical Characteristic	
PCard-E2021L-S-D5	67.2 x 101.8 mm
PCard-E2021L-D5	67.2 x 101.8 mm
Environmental	
Storage Temperature	-40 to 85°C
Operating Temperature	-40 to 75°C
Operating Humidity	5% to 95% Non-condensing
Warranty	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
Option	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

Available Model	Model Name	Description
	PCard-E2021L-S-D5	Industrial 2-Ports RS-422/485 PCI Express Card with Low Profile, 6KV Serial surge protection
	PCard-E2021L-D5	Industrial 2-Ports RS-422/485 PCI Express Card with Low Profile

DIP Switch Definition for RS485

PIN1/PIN2	Pull Hi/Lo
PIN3	Terminator

PIN	RS232	RS422	4W-RS485	2W-RS485
1	--	TX-	TX-	--
2	--	TX+	TX+	--
3	--	RX+	RX+	D+
4	--	RX-	RX-	D-
5	--	GND	GND	GND
6	--	--	--	--
7	--	--	--	--
8	--	--	--	--
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Packing List

- PCard-E2021L-S-D5 or PCard-E2021L-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