



# PCard-E2021L-SI-D5

# PCard-E2021L-I-D5

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

## Features

- PCI Express x1 compliant
- Support Serial Ports for RS-422/4W-RS-485/2W-RS-485
- Support Baudrate from 150~921.6 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 150~921600 baudrate. The PCard-E2021L-SI-D5 is for 6KV surge protect model. In addition, the PCard-E2021L-SI-D5 and PCard-E2021L-I-D5 provide full modem control signals to ensure compatibility with a wide range of serial peripherals.

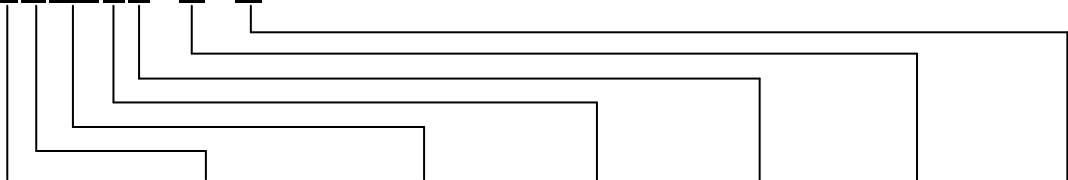
## Specifications

| ORing Model        | PCard-E2021L-SI-D5           | PCard-E2021L-I-D5 |
|--------------------|------------------------------|-------------------|
| <b>Serial Port</b> |                              |                   |
| Connector          | DB25(Female) x 1             |                   |
| Ports              | 2                            |                   |
| Operation Mode     | RS-422 / 4(2)-Wire RS-485    |                   |
| Serial Baud Rate   | 150 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   |
| <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-E2021L-SI-D5                 | 630 mA @ 3.3 VDC   |
| PCard-E2021L-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-E2021L-SI-D5                 | 67.2 x 101.8 mm  |
| PCard-E2021L-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<br>2 : RS-422/485<br>3 : RS-232/422/485 | 02 : 2 Ports<br>04 : 4 Ports<br>08 : 8 Ports<br>16 : 16 Ports | 1: 1 Port           | L : Low Profile<br>NA: Standard | S : Surge<br>I : Isolation<br>NA: None | D9 : DB9<br>D5 : DB25<br>D4 : DB44<br>D8 : DB78<br>VH : VHDCI |

| Available Model | Model Name                | Description   |
|-----------------|---------------------------|---|
|                 | <b>PCard-E2021L-SI-D5</b> | Industrial 2-Ports RS-422/485 PCI Express Card with Low Profile, 6KV Serial surge protection and 3KV Serial Isolation |
|                 | <b>PCard-E2021L-I-D5</b>  | Industrial 2-Ports RS-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   | --    | TX-   | TX-      | --       |
| 2   | --    | TX+   | TX+      | --       |
| 3   | --    | RX+   | RX+      | D+       |
| 4   | --    | RX-   | RX-      | D-       |
| 5   | --    | GND   | GND      | GND      |
| 6   | --    | --    | --       | --       |
| 7   | --    | --    | --       | --       |
| 8   | --    | --    | --       | --       |
| --  | --    | --    | --       | --       |

## Packing List

- PCard-E2021L-SI-D5 or PCard-E2021L-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

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