

4-port/8-port USB 3.0 PCI Express Card with 4 Independent Host Controllers

## Features

- Four or eight USB 3.0 ports
- Four independent USB 3.0 host controllers
- 900 mA/1500 mA max. per port configurable via jumper settings
- Compliant with USB 3.0 Rev.1.0 and Intel® xHCI Rev.1.0
- PCI Express x4 interface
- Operating temperature from 0°C to 70°C
- Supports Windows® 7/10
- Supports each port's power on/off via software settings





# Ordering Information

| AX92321-4U<br>(P/N: E392321101)                                     | 4-port USB 3.0 PCI Express card with 4 independent USB 3.0 host controllers |
|---|---|
| AX92321-8U<br>(P/N: E392321100)                                     | 8-port USB 3.0 PCI Express card with 4 independent USB 3.0 host controllers |
| For IPC962/964 Riser Card<br>Power Connector<br>(P/N: 59492320700E) | Power cable 4P3.0/6P4.2, L=100 mm   |

### Introduction

The AX92321 has two versions – 4-port or 8-port – for users to choose from for various applications. The 4-port AX92321 has four independent Renesas  $\mu$ PD720202 USB 3.0 host controllers to offer up to 5 Gbps bandwidth per port, even when four ports are used simultaneously. The AX92321 can be configured to support maximum 900mA or 1500mA current output to supply stable power for various external USB devices. The AX92321 also support power on/off control for each port via software settings. This USB 3.0 PCI Express card is able to operate under a wide operating temperature range of 0°C to 70°C, allowing it to be used in harsh environments for vision and factory automation applications.

### Specifications

| USB                |   |
|--------------------|---|
| Channels           | 4 x USB 3.0 type A connector (AX92321-4U)<br>8 x USB 3.0 type A connector (AX92321-8U)  |
| Controller         | 4 x Renesas μPD720202 host controllers<br>Compliant with USB 3.0 specification and Intel® xHCl<br>specification, revision 1.0 |
| Max. Current       | 900/1500 mA maximum per port configurable via jumper<br>settings  |
| Data Transfer Rate | Super speed (5.0 Gbps)/high speed (480.0 Mbps)/full speed (12.0 Mbps)/low speed (1.5 Mbps)                                    |

#### General

| Bus Type              | PCI Express x4 Gen2   |
|-----------------------|---|
| Power Requirements    | Power from PCIe slot<br>(total power max. 20W USB power output)<br>2.1A@ +12V<br>0.8A @ +3.3V<br>Power from ATX power connector<br>5A @ +12V or 2.5A @ +24V<br>0.8A @ +3.3V (from PCIe slot)<br>Power from 4P Molex power connector<br>5A @ +12V<br>0.8A @ +3.3V (from PCIe slot) |
| Dimensions            | 168 mm (6.6") x 107 mm (4.2")   |
| Power Connector       | 4-pin Molex connector<br>6-pin ATX power connector  |
| Operating Temperature | 0°C to +70°C (+32°F to +158°F)  |
| Storage Temperature   | -20°C to +80°C (-4°F to +176°F)   |
| Operating Humidity    | 10 - 95% RH, non-condensing   |
| Certifications        | CE compliance   |
| OS                    | Windows® 7/10 (32/64-bit)   |
| Software              | Each port's power on/off is controlled by software  |

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