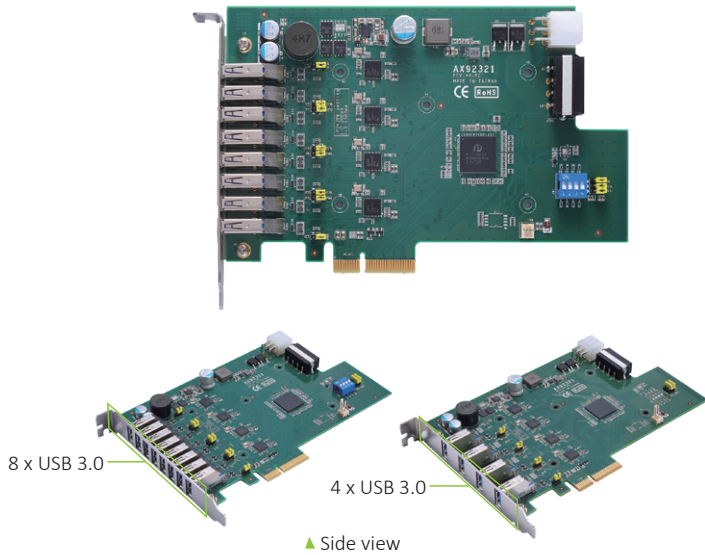


AX92321

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



Features

- 4 or 8 USB 3.0 ports
- 4 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 and Ubuntu 20.04 LTS
- Supports power on/off for each port via software settings

Introduction

The AX92321 has 4-port and 8-port versions for users to choose from for various applications. The 4-port AX92321 has four independent Renesas μ 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 of 900mA or 1500mA current output to supply stable power for various external USB devices. The AX92321 also supports 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) 8 x USB 3.0 type A connector (AX92321-8U) |
| Controller | 4 x Renesas μ PD720202 host controllers Compliant with USB 3.0 specification and Intel® xHCI specification, revision 1.0 |
| Max. Current | 900/1500 mA maximum per port configurable via jumper 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 (total power max. 20W USB power output) 2.1A @ +12V 0.8A @ +3.3V Power from ATX power connector 5A @ +12V or 2.5A @ +24V 0.8A @ +3.3V (from PCIe slot) Power from 4P Molex power connector 5A @ +12V 0.8A @ +3.3V (from PCIe slot) |
| Dimensions | 168 mm (6.6") x 107 mm (4.2") |
| Power Connector | 4-pin Molex connector 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) Ubuntu 20.04 LTS |
| Software | Each port's power on/off is controlled by software |

Ordering Information

| | |
|--|-----------------------------------|
| AX92321-4U (P/N: E392321103) | 4-port USB 3.0 PCIe x4 card |
| AX92321-8U (P/N: E392321102) | 8-port USB 3.0 PCIe x4 card |
| For IPC962/964 Riser Card Power Connector (P/N: 59492320700E) | Power cable 4P3.0/6P4.2, L=100 mm |