

PCE-USB4/USB8 USB3.0 Expansion Card Startup Manual

Packing List

Before you begin installing your card, please make sure that the following items have been shipped:

- 1 x PCE-USB4/USB8 USB3.0 expansion card
- 1 x CD with utility P/N: 2061USB400

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

Note: Acrobat Reader is required to view any PDF file. Acrobat Reader can be downloaded at: get.adobe.com/reader (Acrobat is a trademark of Adobe)

Specifications

General

- **PCE-USB4-00A1E:** 4 Ports USB3.0 expansion card. (Each port is designed with a dedicated USB3.0 controller)
- **PCE-USB8-00A1E:** 8 Ports USB3.0 expansion card. (Each 2 ports are designed with a dedicated USB3.0 controller)
- **Chipset:**
4 Renesas μ PD720202 Hos Controllers
Compliant with USB 3.0 specification
Revision 1.0 compliant with Intel $\text{\textcircled{R}}$ xHCI specification
Revision 1.0
- **Interface:** PCI Express x4 (Gen2.0)
- **Data Transfer Rate:** Super-speed (5.0 Gbps)/High-speed (480.0 Mbps)/Full-speed (12.0 Mbps)/Low-speed (1.5 Mbps)
- **Current Protection:** 1500mA per-port current limit

Note: For better compatibility, please change PCIe setting to Gen 2.0 on device card plugged slot.

For more information on this and other Advantech products, please visit our website at:

<http://www.advantech.com>

<http://www.advantech.com/eplatform>

For technical support and service, please visit our support website at:

<http://support.advantech.com.tw/support/default.aspx>

This manual is for the PCE-USB4/USB8 Series Rev. A1.

Part No. 2001USB400

1st Edition,
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Specifications (Cont.)

Mechanical and Environmental

- **Dimensions:** (L x W):
118 x 111 mm (MB); 43.5 x 111 mm (Carry board)
- **Power requirements:**
Slot: PCI Express 2.0 standard
- **Net Weight:**
0.098 Kg (PCE-USB4) / 0.114 Kg (PCE-USB8)

Connectors

Main Board Connectors

Label	Function
USB1~4	USB3.0 port 1~4
USB5	Board to board connector for carry board
USB6	Board to board connector for carry board
ATX12V1	ATX 12 V Auxiliary 4-pin power connector
PWR1	ATX 5V & 12V 4-pin power connector

Carrier Board Connectors

Label	Function
USB4	Shared U16 controller with USB4 port of MB
USB3	Shared U13 controller with USB3 port of MB
USB2	Shared U10 controller with USB2 port of MB
USB1	Shared U7 controller with USB1 port of MB
PH_USB1	Board to board connector for MB
PH_USB2	Board to board connector for MB

Software Installation

The drivers for the PCE-USB4/PCE-USB8 series are located on the software installation CD. Please click through the folder and follow the screen instructions to install them.

Caution! The computer is supplied with a battery-powered real time clock circuit. There is a danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to manufacturer's instructions.



Declaration of Conformity

This device complies with the requirements in Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference;
2. This device must accept any interference received, including interference that may cause undesired operation.

Board Layout

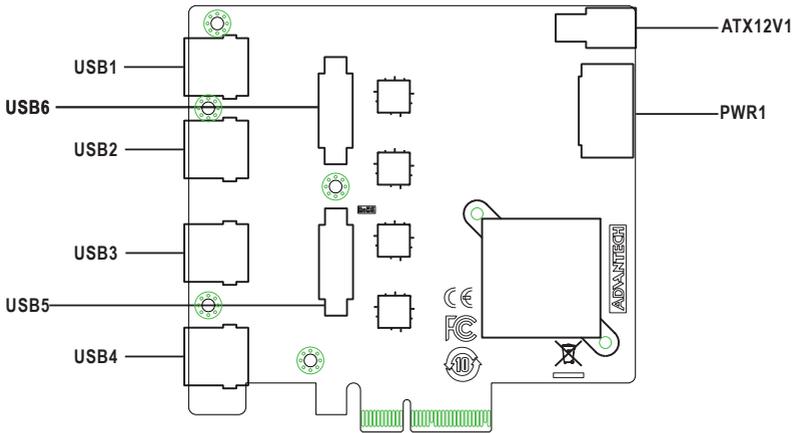


Figure 1: Main Board Connectors Locations

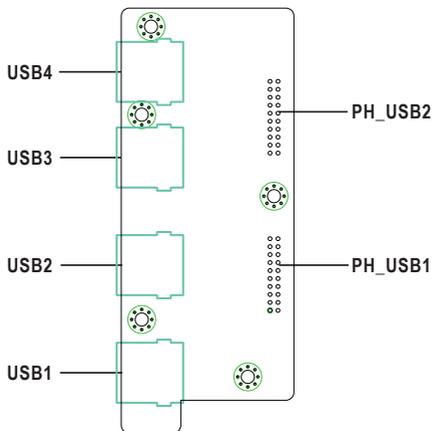


Figure 2: USB Carrier Board Connectors Locations