

PCIe to PCIx4 Expansion Box

- ✓ Full x1 PCI Express Throughput, 250Mbytes/sec
- ✓ Fully Compliant with PCI Express Base Specifications, Revision 1.0a
- ✓ PCI Express Advanced Error Reporting Capability Including ECRC Support
- ✓ Expands 4 PCI 32-bit 33MHZ Slots over PCI Express Slot
- ✓ PCI Slots are fully Compliant PCI Bus Rev. 2.3
- ✓ Supports both 5V and 3.3V Add-in Cards
- ✓ Supports Cable Length up to 2 meters
- ✓ Low Profile Version is Available with Short Bracket PCI Express card
- ✓ 12VDC AC Power Adapter is Required
- ✓ Metal Case for Critical Applications
- ✓ Extended Virtual Channel (VC) Support Includes a Second VC for Quality-of-Service and Isochronous Applications
- ✓ Active State Link Power Management Support
- ✓ Wake Event and Beacon Support



INTRODUCTION

The PCI Express to Quad PCI Slots Expansion Box is specially designed to expand 4 extra PCI slots from a PCI Express Slot. It includes a PCIe adapter card, a cable and the slot box itself. The box is powered by a 12VDC AC adapter. It provides instant PCI bus expansion via the PCI Express Bus (PCIe).

PCI Express provides a scalable, high-speed, serial I/O bus that maintains backward compatibility with PCI applications and drivers. Its architecture defines a high-performance, point-to-point, scalable, serial bus at speed of 250Mbytes/sec to 4GBytes/sec (and 8Gbytes/sec in the future).

The PCI slots of the box are fully Plug-and-Play compatible and no IRQ and I/O address conflict problems. The provides the scalability to quickly adapt to new PCI Express technologies for legacy PCI add-in cards. It allows you to add PCI connectivity as needed. The complete product line offer many choices help you to expand and make your I/O resource grow with your requirements.

SPECIFICATIONS

System

Fully Compliant with x1 PCI Express Base

Specifications 1.0a

PCI Slots

provides 4 PCI Slots. Their key benefits are:

- Provides four 32-bit/33HMZ PCI Slots
- Fully PCI Specifications 2.3 Compliant
- Supports both 5V and 3.3V Fault Tolerance Option
- Advanced PCI Bus Port Arbitration Options Include 128-phase, Weighted Round-Robin Time-Based and 128-phase, Weighted Round-Robin Aggressive Time-Based
- Advanced PCI Isochronous Windows for Memory Space Mapping to a Specified Traffic Class

I/O Hardware

Host Connector: One 24-pin Connector for PCI Express Host cable

DC Power Jack: One DC Jack for 12V AC Adapter Power Input

Environmental Specifications

Operating Temperature: 0 to 55°C (32 to 131°F), 10% to 90% relative humidity (non-condensing)

Storage Temperature: -40 to 75°C (-40 to 167°F), 5% to 95% relative humidity (non-condensing)

Form Factor

8.11x5.39x5.63" (20.60x 13.70x14.30cm)

PCIe to PCIx4 Slots Expansion Box

Installation Guide

1. Introduction

Thank you for purchasing this PCIe to PCIx4 Slots Expansion Box. It is specially designed to expand 4 extra PCI slots from a PCI Express Slot. It includes a PCIe host adapter card, a Expansion Cable and the Expansion Box itself. The box is powered by a 12VDC AC adapter. It provides instant PCI bus expansion via the PCI Express (PCIe) Bus of any computer systems.

Features:

- ✓ Supports 1-lane 2.5Gb/s PCI Express Data Transfer Rate
- ✓ Expands 4 PCI 32-bit 33MHZ Slots over PCI Express Slot
- ✓ PCI Slots are fully PCI Bus Rev. 2.3 Compliant
- ✓ Supports both 5V and 3.3V Add-in Cards
- ✓ Low Profile Version is Available (optional) by changing the Short Bracket of the Host PCI Express card
- ✓ 12VDC AC Power Adapter is Required

2. Packing List

Before installing this product, please make sure the following accessories are well packed in the box :

- Metal Expansion Box 1
- Add-in PCIe Host Card x 1
- DVI like Expansion Cable x 1
- 12VDC/AC Power Adapter x 1
- Driver CD × 1
- This Installation Guide × 1

(Mark the check box to help you check it)

3. Installing the Expansion Box



Please note that this product does NOT support hot-plug feature by means of the Expansion Cable. You can NOT connect or disconnect the expansion cable unless you power off your system first.

1. Turn OFF the system power before installation!
Since both the PC system and the Expansion Box are self-powered, you need to follow the correct ON/OFF sequence as follows:
 - **Power Off Sequence:** Power off your PC system then the Expansion Box
 - **Power On Sequence:** Power on the Expansion Box first, then power on your PC system.
2. Remove the chassis cover from your computer
3. Locate an unused PCI Express slot (typically white and smaller) and remove the corresponding slot cover from computer chassis.
4. Plug the PCIe add-in card to the unused PCI Express expansion slot and attached its card bracket to the computer chassis screw.
5. Put the chassis cover back on the computer.
6. Install one end of the Expansion Cable to PCIe add-in card's connector and the other end to the Expansion Box's.



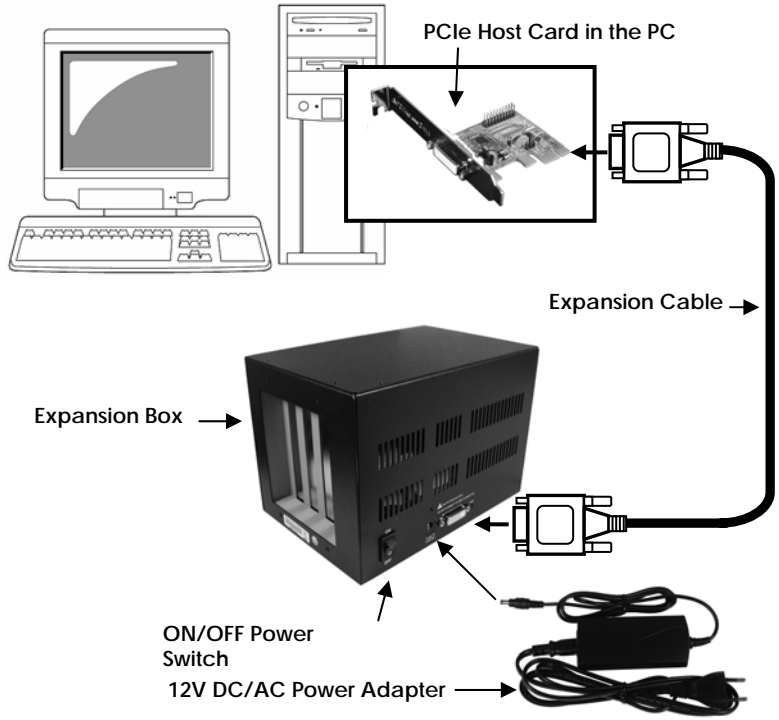
Warning!! Since the Expansion Cable's connector has the same form factor as the standard DVI connector, however, their signals are different, please do NOT connect the Expansion Cable to neither your LCD monitor nor your Video Graphic cards.

7. Then we are installing the PCI add-in cards in the Expansion Box:
 - ① Open the top cover (by removing the screws) of the Expansion Box, there are 4 PCI slots in the Expansion Box.
 - ② Find an unused slot, remove the "blank" PCI card bracket that was pre-installed from the factory.
 - ③ Plug in your PCI add-in card (s).
 - ④ Put the top cover back on your Expansion Box.



Installing PCI Add-in cards inside the Expansion Box

8. Connect the AC power Adapter's cable to the Expansion Box.
9. Turn on the Expansion Box power by means of its power switch next to the Expansion Cable, then power on the PC system.
10. Proceed with Software Driver Installation if required.



4. Installing the ExpressBooster Software

In some cases, if the write performance of your PCI Card is not good. Please install the ExpressBooster software supplied with your card.

1. To install the software, find the **setup.exe** file in the following folder on the driver CD: (assume your CD is in the drive E:), double click the file to run the setup.

E:\Utility\ExpressBooster



2. Follow the setup on-screen instructions, you will be asked to **check the “PCI Express Card”** item (leave the **“Express Card”** item un-checked). Then proceed with the rest on-screen instructions to complete the installation.

