



# PCIe to PCIx2+PCIex2 Slots Expansion Box

Model Number: *CGS-PCI2PCIe2*

## Installation Guide

Coolgear, Inc.

Version: 1.0

Date: 04/10/2024



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## Revision History

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Revision	Date	Comments
1.0	04/10/2024	First Release

## 1. Introduction

Thank you for purchasing Coolgear's PCIe to PCIx2+PCIex2 Slots Expansion Box. It is specially designed to expand extra 2 PCI and 2 PCIe slots from a PCI Express Slot. It includes a PCIe host adapter card, an Expansion Cable and the Expansion Box itself. The box is powered by a 12VDC AC adapter. It provides instant PCI and PCIe bus expansion via the PCI Express (PCIe) Bus of any computer system.

### Features:

- ✓ Supports 1-lane 2.5Gb/s PCI Express Data Transfer Rate
- ✓ Expands 2 PCI 32-bit 33MHZ and 2 PCIe 1-Lane Slots over PCI Express Slot
- ✓ PCI Slots are fully PCI Bus Rev. 2.3 Compliant
- ✓ Supports both 5V and 3.3V PCI 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 x 1
- This Installation Guide x 1

(Mark the check box to help you check it)

### 3. Installing the Expansion Box



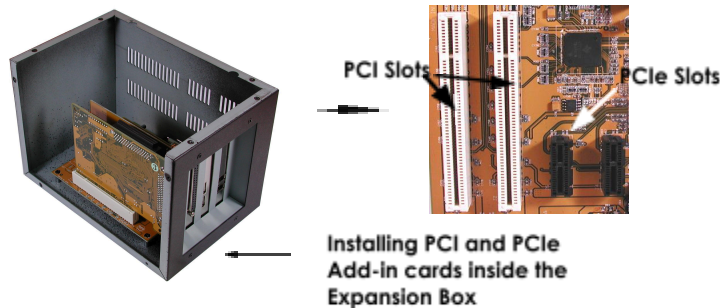
**Please note that this product does NOT support hot-plug feature by means of the Expansion Cable. You can NOT connect or disconnect the expansion cable unless you power off your system first.**

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 the computer chassis.
4. Plug the PCIe add-in card to the unused PCI Express expansion slot and attach 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.

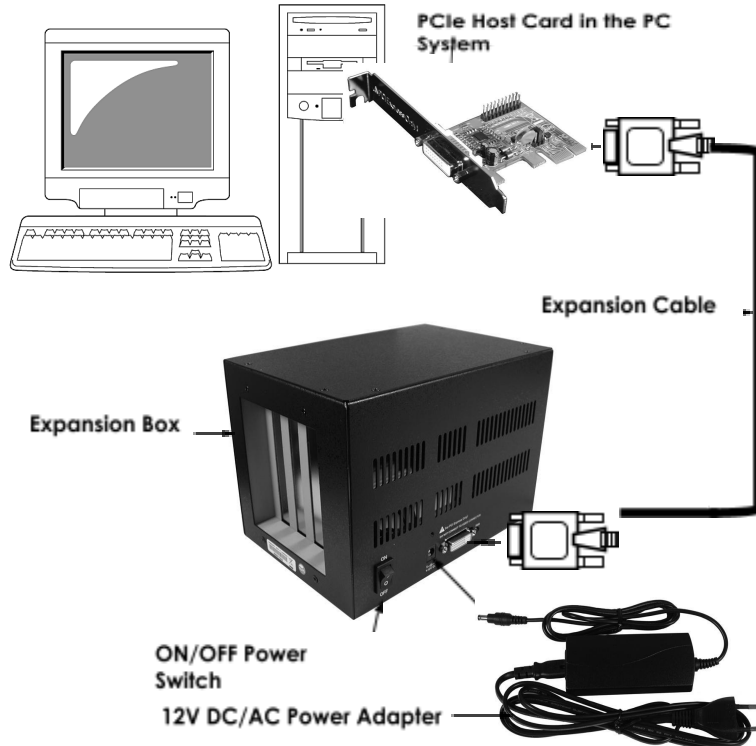


**Warning!! Since the Expansion Cable's connector has the same form factor as the standard DVI connector, however, their signals are different, please do NOT connect the Expansion Cable to neither your LCD monitor nor your Video Graphic cards.**

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

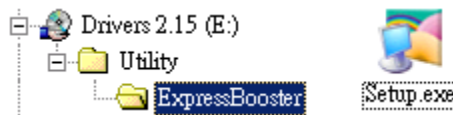


## 4. Installing the ExpressBooster Software

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

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 unchecked). Then proceed with the rest of the on-screen instructions to complete the installation.



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## Safety

- Read the entire Installation Guide before implementing this product for your application. This guide contains important information about electrical connections that must be followed for safe and proper operation.
- Inspect the product closely for visual defects before putting it to use.
- Keep away from areas where moisture builds, this product contains electrical components that can be damaged by moisture build up, this can adversely affect your equipment connected to it.
- Do not disassemble the product. Handling the product's internal components can expose it to ESD (Electro-Static Discharge) hazards that can affect the function of the device.
- If this product is not functioning properly, email our support team at [support@coolgear.com](mailto:support@coolgear.com).

## USB CHARGING & CONNECTIVITY EXPERTS

### Within Every Great Machine

For over 20 years our rugged, off-the-shelf USB hubs, chargers, and serial products are ready to go for your next project. Based in the US, Coolgear has successfully engineered and deployed millions of connectivity solutions into industrial, medical, automotive, commercial, and aerospace industries.



We understand the importance of reliability, build quality, & consider all our customers' applications as critical, wanting to ensure long-lasting event-free integrations.

#### **Compliance Statement**

View compliance within the product's respective Technical Data Sheet, found on the product's online listing.

#### **Technical Support**

When you reach out to Coolgear support, you'll find yourself in the hands of a solution-oriented and knowledgeable expert ready to answer whatever question you throw at them. If you ever need help with your product, visit [coolgear.com/support](https://coolgear.com/support) for support tickets, downloads, and other support resources. For the latest drivers, please visit [coolgear.com/download](https://coolgear.com/download).

#### **Product Standard Warranty**

One (1) Year Warranty from Date of Purchase Invoice. Coolgear will repair or replace any Product determined to be defective and which has been returned, at your risk and expense, to Coolgear. Where Coolgear determines in its sole judgment that repair or replacement of such Product is not reasonable, Coolgear will keep the non-conforming Product and refund to you the amount you paid for such Product. Returned Products shall be subject to the balance of the Warranty Period otherwise applicable. Any reconditioned parts used by Coolgear shall be subject to all the same provisions as otherwise applicable to new parts. THE FOREGOING DESCRIBES COOLGEAR'S SOLE LIABILITY, AND YOUR SOLE REMEDY, FOR ANY BREACH OF WARRANTY. IF YOU DO NOT AGREE WITH THE TERMS OF THIS LIMITED WARRANTY, YOU MUST RETURN THE PRODUCTS UNUSED AND IN THEIR ORIGINAL CONTAINERS TO YOUR ORIGIN OF PURCHASE.

#### **Limitation of Liability**

This Limited Warranty does not cover: (i) defects or damages resulting from natural causes, casualty, accident, misuse or abuse, neglect, alterations, service or repair by other than Coolgear, including without limitation by you; (ii) improper installation or de-installation, operation or maintenance, improper connections with peripherals or other causes not arising out of defects in the materials or workmanship of Products; (iii) any Product for which the warranty sticker has been removed, modified or defaced; (iv) normal wear and tear; (v) damage to or loss of repaired or replaced Products during shipping by Coolgear except when such damage or loss is caused by poor or inadequate packaging by Coolgear; or (vi) Products purchased outside the United States. UNDER NO CIRCUMSTANCES WILL COOLGEAR BE LIABLE FOR ANY LOSS OF USE, INTERRUPTION OF BUSINESS OR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY KIND (INCLUDING LOST PROFITS) REGARDLESS OF THE FORM OF ACTION WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT PRODUCT LIABILITY OR OTHERWISE, EVEN IF COOLGEAR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL THE TOTAL LIABILITY OF COOLGEAR HEREUNDER EXCEED THE GREATER OF \$50.00 OR THE AMOUNT YOU ACTUALLY PAID FOR THE PRODUCT GIVING RISE TO SUCH LIABILITY, REGARDLESS OF THE CAUSE OF ACTION, IN CONTRACT, TORT, STRICT LIABILITY OR OTHERWISE. NOT ALL JURISDICTIONS ALLOW SUCH LIMITATIONS OF DAMAGES SO THE FOREGOING LIMITATIONS MAY NOT APPLY TO YOU.

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