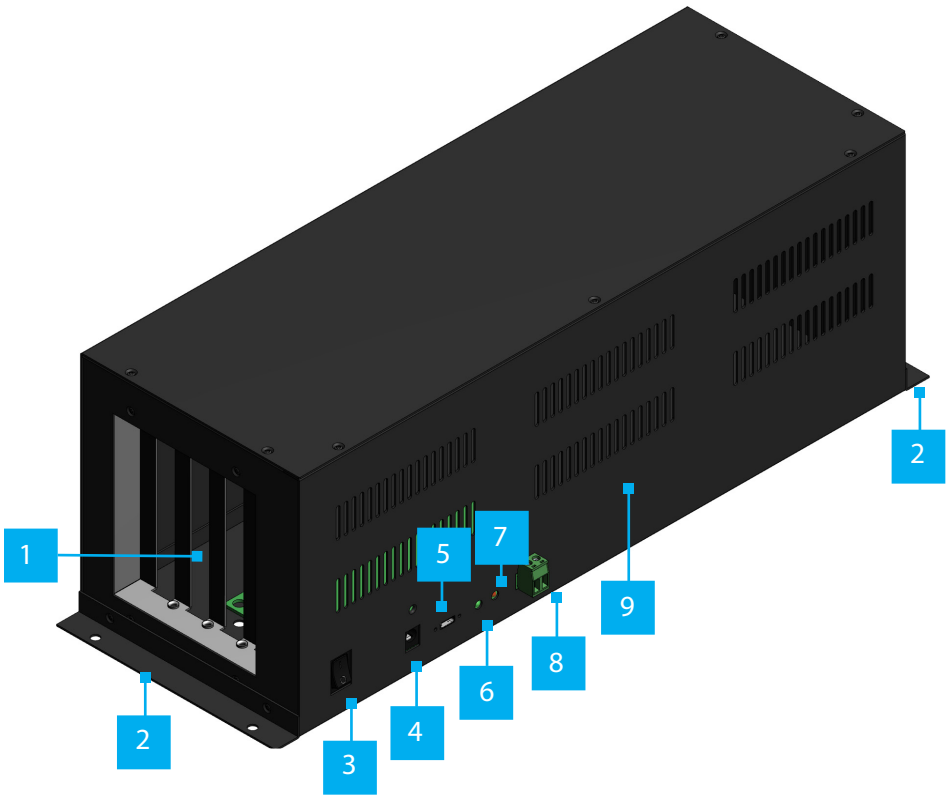
# PCIe 2.0 to 4 PCIe Slots Expansion Chassis - USB Type-C

## Product Diagram (4PCIE-PCIE-ENCLOSURE)

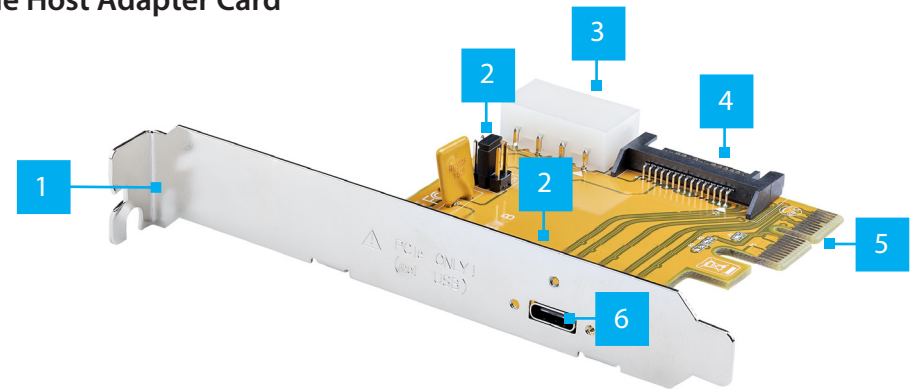
### PCIe Expansion Chassis




*Product may vary from image

| | Port/LED/ Connector | Function |
|---|---|---|
| 1 | PCIe Expansion Slots | • Install up to **Four PCIe cards**<br>• PCIe version 2.0 x1 slots<br>• 10 Gbps aggregate host bandwidth<br>• Full length cards supported |
| 2 | Mounting Brackets | • (Optional) Allows for a permanent installation of the **PCIe Expansion Chassis** to a flat and stable surface<br>• **Mounting Holes** at the **Front** and **Back** of the **PCIe Expansion Chassis** secure the **Mounting Brackets** |
| 3 | On/Off Switch | • Turns the **Expansion Chassis On** or **Off**<br>• The correct sequence to power the device:<br>  • Power on: Power **On** the **PCIe Expansion Chassis** first, then the **Host Computer**<br>  • Power off: Power **Off** the **Host Computer** first, then the **PCIe Expansion Chassis** |
| 4 | DC Power Port | • Connect the **PCIe Expansion Chassis** to a **Power Source** using the included **Power Adapter**<br>• Recommended 12 V and 3 A. Supports 12 to 24 V input |
| 5 | USB Type-C Connector | • Used to connect the **PCIe Expansion Chassis** to a **Host Computer**<br>• If the **USB Type-C Cable** is disconnected during use, the **Host Computer** must be restarted to reestablish the connection<br>• For a secure and correct cable connection, threaded holes around the **USB Type-C Connector** allow to **Screw-lock** the included **USB Type-C Cable** |
| 6 | USB Type-C LED Indicator | • Indicates if the included **USB Type-C-Cable** is on the correct orientation. The cable is not reversible<br>  • Solid Green = Correct orientation |
| 7 | Power LED Indicator | • Indicates if the **On/Off Switch** is turned **On** or **Off**<br>• Solid Red = On<br>• Off = Off |
| 8 | Terminal Block Connector | • Connect the **PCIe Expansion Chassis** to a **DC Power Source**<br>• Recommended 12 V and 3 A. Supports 12 to 24 V input |
| 9 | Metal Cover | • Remove the **Metal Cover** to install the **PCIe cards** |

## PCIe Host Adapter Card




| | Port/LED/ Connector | Function |
|---|---|---|
| 1 | Bracket | • Secures the card to the **Host Computer Case**. The **Full-height Bracket** comes pre-installed |
| 2 | JP1 Jumper (BUS PWR)<br><br>JP2 Jumper (WAKE) (not visible in image) | • Enables the **PCIe Host Adapter Card** to provide power to the **PCIe Expansion Chassis** via the **USB Type-C Cable**.<br>  • Three position are available for **JP1**: 12V, NC (default), and 5V<br>  • To inject power via the **PCIe Host Adapter Card** it must be used in combination with **JP1** and **JP2** on the **PCIe Expansion Chassis**<br>• Enables the **PCIe WAKE# Pin**, and allows to wake the **Host Computer** when **Wake-on-LAN (WoL) Packets** have been received. A **WoL** capable **Network Card** must be installed in the **PCIe Expansion Chassis**.<br>  • Two positions are available for **JP2**: DIS (disabled) and ENA (default) |
| 3 | LP4 Power Connector | • **Optional:** Connect the **Host Computer Power Supply** |
| 4 | SATA Power Connector | • **Optional:** Connect the **Host Computer Power Supply** |
| 5 | PCIe x2 Connector | • Insert into a **PCIe Slot** on the host Host Computer |
| 6 | USB Type-C Connector | • Used to connect the **PCIe Host Adapter Card** to the **PCIe Expansion Chassis**<br>• For a secure and correct cable connection, threaded holes around the **USB Type-C Connecto**r allow to **Screw-lock** the included **USB Type-C Cable** |

## Package Contents

- PCIe to PCIe Expansion Chassis x 1
- PCIe Host Adapter Card
- 6ft (1.8m) USB Type-C to C Male to Male Cable x 1
- Low-Profile Bracket x 1
- Power Adapter x 1
- Terminal Block Connector x 1
- Mounting Brackets x 2
- Mounting Brackets Screws x 4
- Quick-Start Guide x 1

## Requirements

For the latest requirements, please visit www.startech.com/4PCIE-PCIE-ENCLOSURE

- Host Computer with an available PCIe Slot (x2, x4, x8, or x16)
- Phillips head screwdriver

## Installation

**WARNING!**

***Static electricity*** *can severely damage the PCIe card(s) ensure that you are adequately grounded before you open your Host Computer case or touch the PCIe card(s). You should wear an anti-static strap or use an anti-static mat when installing any Host Computer component. If an anti-static strap isn't available, discharge any built-up static electricity by touching a large grounded metal surface for several seconds. Only handle the PCIe card(s) by the edges and don't touch the golden connectors.*

### Install the PCIe Host Adapter Card

1. Turn **Off** the **Host Host Computer** and any **Peripheral Devices** that are connected to it (e.g. printers, external hard drives, etc.).
2. Unplug the **Power Cable** from the back of the **Host Computer**.
3. Disconnect any **Peripheral Devices** that are connected to the **Host Computer**.
4. Remove the **Cover** from the **Host Computer Case**. Consult the documentation that came with the **Host Computer** for details about doing this safely.
5. Locate an available **PCIe Slot** and remove the corresponding **Slot Cover Plate** from the back of the **Host Computer Case**. Consult the documentation that came with the **Host Computer** for details about doing this safely. The **PCIe Host Adapter Card** works in **PCIe x2**, **x4**, **x8**, or **x16 Slots**.
6. Gently insert the **PCIe Host Adapter Card** into the **PCIe Express Slot** and fasten the **Bracket** to the back of the **Host Computer Case**.

   ***Note:*** *If you install the PCIe Host Adapter Card into a small form factor or a low-profile desktop system, it may be necessary to replace the pre-installed standard full-height bracket with the included low-profile bracket.*

8. (Optional) Connect a **SATA Power Cable** or **LP4** from the **Host Host Computer Power Supply**.
9. Return the **Cover** onto the **Host Computer Case**.



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10. Reconnect the **Power Cable** to the back of the **Host Computer**.

11. Reconnect all of the **Peripheral Devices** disconnected in **Step 1**.

## Install PCIe Cards in the PCIe Expansion Chassis

***Sharp edges!*** *Be mindful of the sharp edges around the PCIe Expansion Chassis when the Metal Cover is removed.*

1. Turn **Off** the **PCIe Expansion Chassis** and unplug all cable connections.
2. Release the **Metal Cover** by removing the **Screws** (x 12) using a **Phillips Head Screwdriver**. The **Screws** are located on top and the opposite side of the connectors on the **PCIe Expansion Chassis**.
3. (Optional) The **JP2** and **JP1 Jumper** settings on the board allow you to choose different power settings. (Figure 1)

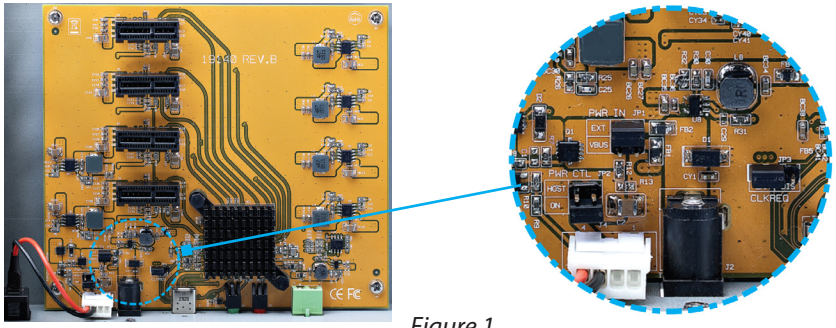


*Figure 1*

| | Jumper | Function |
|---|---|---|
| **1** | JP1 Jumper (PWR IN) | • **EXT** (default) receives power from the **DC Power Port** or **Terminal Block Connector**<br>• **VBUS** receives power from the **PCIe Host Adapter Card**<br>  • It must be used in Combination with **JP2** (PWR CTL) set to **HOST** |
| **2** | JP2 Jumper (PWR CTL) | • **HOST** the **PCIe Host Adapter Card** provides power<br>  • **JP1** (BUS PWR) on the **PCIe Host Adapter Card** must be on the **12V** or **5V Position**<br>• **ON** (default) the **PCIe Expansion Chassis** provides power from the **DC Power Port** or **Terminal Block Connector** |
| **3** | JP3 (CLKREQ) | • Keep it on the default **Enabled** (ENA) position at all times |

4. Locate an available **PCIe Slot** on the **Expansion Chassis**, using a **Phillips Head Screwdriver** remove the corresponding **Slot Cover Plate** from the **PCIe Expansion Chassis**.
5. Gently insert the **PCIe Card** (s) into the **PCIe Slot** and fasten the **Bracket** to the **PCIe Expansion Chassis**. The **PCIe Expansion Chassis** supports **PCIe Cards x1** only.
6. Install the **Metal Cover** back onto the **PCIe Expansion Chassis**.
7. **Screw-Lock** the **USB Type-C Cable** onto the **PCIe Expansion Chassis** and the **PCIe Host Adapter Card** on the **Host Computer**. This ensures the correct cable orientation.
8. Connect the **Power Adapter** or use the optional **Terminal Block Connector** to supply power. Turn **On** the **Expansion Chassis** by flipping the **On/Off Switch**.
9. Turn **On** the **Host Computer**.

***Note:*** *No drivers are needed for the PCIe Expansion Chassis. Some PCIe Cards may need drivers to finish their installation.*

## (Optional) Install the Mounting Brackets

1. Use the **Mounting Screws** (x 2) and **Phillips Head Screwdriver** to fasten the **Front Mounting Bracket** on the **PCIe Expansion Chassis**.
2. Repeat **Step 1** to install the **Rear Mounting Bracket**.




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