

HighPoint

RocketU 1244C

PCIe 3.0 to 4-Port USB-C 3.2 10Gb/s HBA



Quick Installation Guide

V1.01

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Introducing the HighPoint RocketU 1244C

The RocketU 1244C is an 8-lane USB-C 3.2 10Gb/s PCIe 3.0 x8 host adapter. It can be easily installed into any x8/x16 slot, and is natively supported by the latest versions of Windows, MacOS, and Linux distributions.

Backwards Compatible with USB 3.2 Gen2, USB 3.2 Gen1, USB 2.0 Devices

RocketU 1244C controllers can be installed into any computing platform with an industry-standard PCIe 3.0 or 4.0 x8 or x16 slot. The four independent USB Type-C ports support any industry-standard USB 2.0, USB 3.2 Gen1, USB 3.2 Gen2 device, including USB hard drives and SSD's, cameras, printers, capture devices and peripherals.

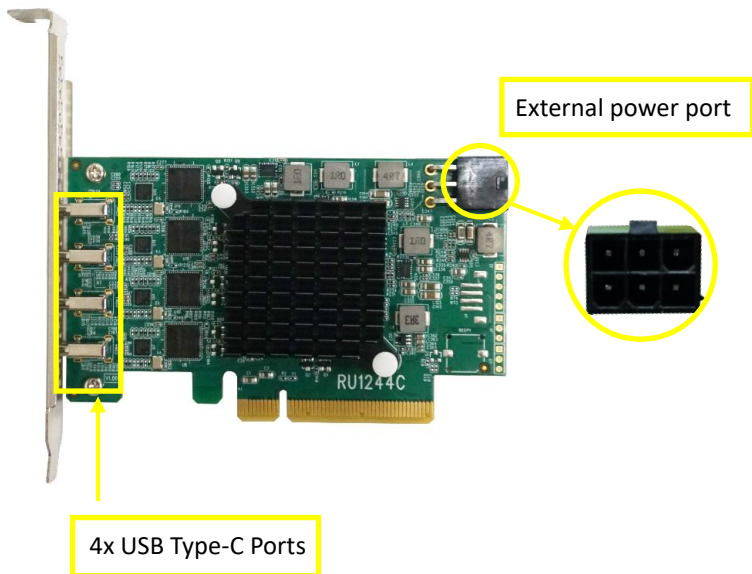
Kit Contents

- RocketU 1244C host controller
- Quick Installation Guide
- Low Profile Bracket

System Requirement

- PC with Windows 8.1 and later
- macOS 10.9 and later
- Linux 2.6.35 and later

Board Layout



Installing the RocketU 1244C Host Adapter

Note: Make sure the system is powered-off before installing the host adapter.

1. Open the system chassis and locate an unused PCI-Express x8/x16 slot.

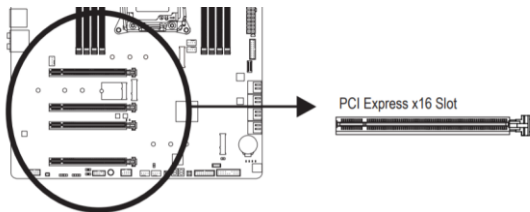
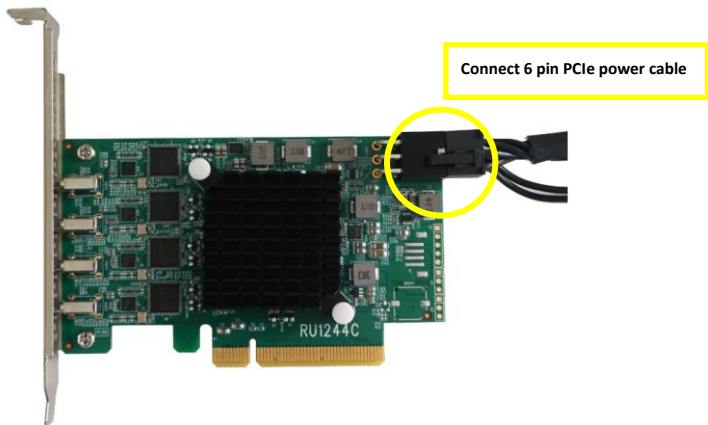


Figure 1 - PCIe x16 slot diagram

2. Gently insert the RocketU 1244C into the PCI-Express slot, and secure the bracket to the system chassis.
3. After installing the adapter, attach the USB device with USB cables.
4. Power up the USB Device external power supply.

Note: If the external power supply is not powered on, the USB Device may drop offline or remain undetected, which could lead to data loss.



RU1244C relies on two power sources to support four USB Devices, power supplied through the PCIe bus, and power from the system's PSU via an external power cable. If the external cable is not connected, there will be insufficient power to support all 4 USB Devices; this may cause the USB Device to drop offline.

Note : The RU1244C does not require the external power cord when used with Mac Pro 2019.

5. Close and secure the system chassis.

Driver Installation

Windows Platforms: The RocketU 1244C is natively supported by Windows 8 and later (no driver installation is required).

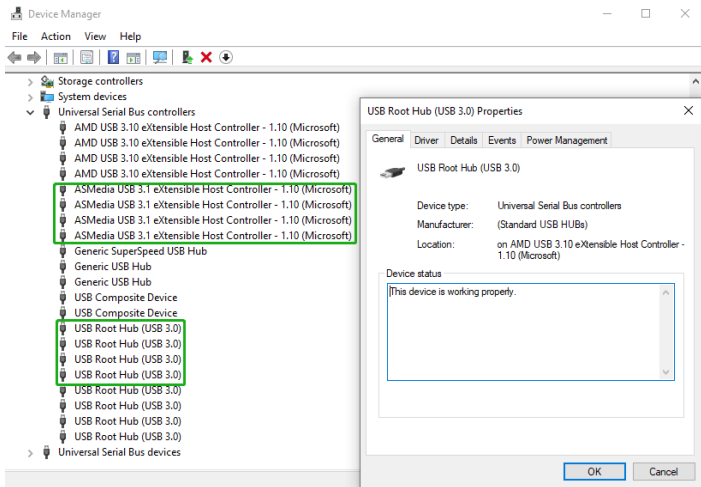
Mac OS: The RocketU 1244C is natively supported by macOS 10.9 and later (no driver installation is required).

Linux: The RocketU 1244C is natively supported by Linux 2.6.35 and later (no driver installation is required).

Verifying Installation (Windows)

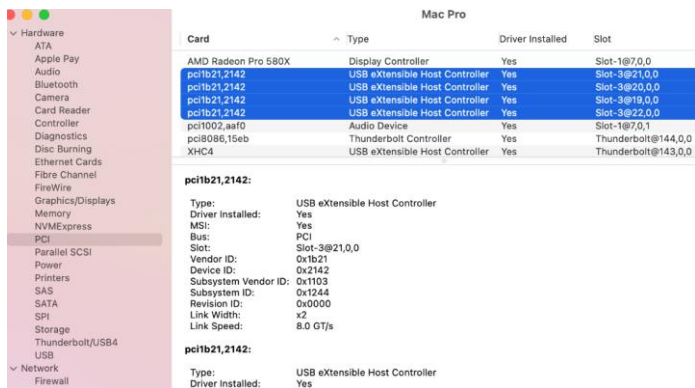
1. Open Device Manager.
2. Expand the '**Universal Serial Bus Controllers**' entry.
3. If the driver is installed properly, four "ASMedia USB 3.1 eXtensible Host Controller" and four "USB Root Hub" entry should be displayed.

Note: USB3.1 has been renamed to USB3.2, but the system display has not been updated to USB3.2, the current display is still USB3.1.



Verifying Installation (macOS)

1. Access the **System Information** app, and click on **PCI** under **Hardware**.
2. Verify if the driver is installed properly for the “pci1b21, 2142” USB eXtensible Host Controller.



The screenshot shows the macOS System Information window for a Mac Pro. The left sidebar has 'Hardware' expanded, and 'PCI' is selected. The main pane displays a table of PCI cards and their details.

Card	Type	Driver Installed	Slot
AMD Radeon Pro 580X	Display Controller	Yes	Slot-1@7,0,0
pci1b21,2142	USB eXtensible Host Controller	Yes	Slot-3@21,0,0
pci1b21,2142	USB eXtensible Host Controller	Yes	Slot-3@20,0,0
pci1b21,2142	USB eXtensible Host Controller	Yes	Slot-3@19,0,0
pci1b21,2142	USB eXtensible Host Controller	Yes	Slot-3@22,0,0
pci1002,aa0	Audio Device	Yes	Slot-1@7,0,1
pci8086,15eb	Thunderbolt Controller	Yes	Thunderbolt@144,0,0
XHC4	USB eXtensible Host Controller	Yes	Thunderbolt@143,0,0

pci1b21,2142:

Type: USB eXtensible Host Controller
Driver Installed: Yes
MSI: Yes
Bus: PCI
Slot: Slot-3@21,0,0
Vendor ID: 0x1b21
Device ID: 0x2142
Subsystem Vendor ID: 0x1103
Subsystem ID: 0x1244
Revision ID: 0x0000
Link Width: x2
Link Speed: 8.0 GT/s

pci1b21,2142:

Type: USB eXtensible Host Controller
Driver Installed: Yes

Verifying Installation (Linux)

1. Open terminal and enter the following command:
lspci
2. If the driver is installed properly, four “ASM2142 USB 3.1 Host Controller” entry should be displayed.

Note: USB3.1 has been renamed to USB3.2, but the system display has not been updated to USB3.2, the current display is still USB3.1.

```
root@test-PRIME-Z390-A:/home/test# lspci
00:00.0 Host bridge: Advanced Micro Devices, Inc. [AMD] Starship/Matisse Root Complex
00:00.2 IOMMU: Advanced Micro Devices, Inc. [AMD] Starship/Matisse IOMMU
00:01.0 Host bridge: Advanced Micro Devices, Inc. [AMD] Starship/Matisse PCIe Dummy Host Bridge
00:01.1 PCI bridge: Advanced Micro Devices, Inc. [AMD] Starship/Matisse GPP Bridge
00:02.0 Host bridge: Advanced Micro Devices, Inc. [AMD] Starship/Matisse PCIe Dummy Host Bridge
00:03.0 Host bridge: Advanced Micro Devices, Inc. [AMD] Starship/Matisse PCIe Dummy Host Bridge
00:04.0 Host bridge: Advanced Micro Devices, Inc. [AMD] Starship/Matisse PCIe Dummy Host Bridge
00:05.0 Host bridge: Advanced Micro Devices, Inc. [AMD] Starship/Matisse PCIe Dummy Host Bridge
00:07.0 Host bridge: Advanced Micro Devices, Inc. [AMD] Starship/Matisse PCIe Dummy Host Bridge
00:07.1 PCI bridge: Advanced Micro Devices, Inc. [AMD] Starship/Matisse Internal PCIe GPP Bridge 0 to bus[E:B]
00:08.0 Host bridge: Advanced Micro Devices, Inc. [AMD] Starship/Matisse PCIe Dummy Host Bridge
00:08.1 PCI bridge: Advanced Micro Devices, Inc. [AMD] Starship/Matisse Internal PCIe GPP Bridge 0 to bus[E:B]
00:14.0 SMBus: Advanced Micro Devices, Inc. [AMD] FCH SMBus controller (rev 61)
00:14.3 ISA bridge: Advanced Micro Devices, Inc. [AMD] FCH LPC Bridge (rev 51)
00:18.0 Host bridge: Advanced Micro Devices, Inc. [AMD] Starship Device 24; Function 0
00:18.1 Host bridge: Advanced Micro Devices, Inc. [AMD] Starship Device 24; Function 1
00:18.2 Host bridge: Advanced Micro Devices, Inc. [AMD] Starship Device 24; Function 2
00:18.3 Host bridge: Advanced Micro Devices, Inc. [AMD] Starship Device 24; Function 3
00:18.4 Host bridge: Advanced Micro Devices, Inc. [AMD] Starship Device 24; Function 4
00:18.5 Host bridge: Advanced Micro Devices, Inc. [AMD] Starship Device 24; Function 5
00:18.6 Host bridge: Advanced Micro Devices, Inc. [AMD] Starship Device 24; Function 6
00:18.7 Host bridge: Advanced Micro Devices, Inc. [AMD] Starship Device 24; Function 7
01:00.0 PCI bridge: PLX Technology, Inc. PEX 8747 48-Lane, 5-Port PCI Express Gen 3 (8.0 GT/s) Switch (rev ca)
02:00.0 PCI bridge: PLX Technology, Inc. PEX 8747 48-Lane, 5-Port PCI Express Gen 3 (8.0 GT/s) Switch (rev ca)
02:09.0 PCI bridge: PLX Technology, Inc. PEX 8747 48-Lane, 5-Port PCI Express Gen 3 (8.0 GT/s) Switch (rev ca)
02:10.0 PCI bridge: PLX Technology, Inc. PEX 8747 48-Lane, 5-Port PCI Express Gen 3 (8.0 GT/s) Switch (rev ca)
02:11.0 PCI bridge: PLX Technology, Inc. PEX 8747 48-Lane, 5-Port PCI Express Gen 3 (8.0 GT/s) Switch (rev ca)
03:00.0 USB controller: ASMedia Technology Inc. ASM2142 USB 3.1 Host Controller
04:00.0 USB controller: ASMedia Technology Inc. ASM2142 USB 3.1 Host Controller
05:00.0 USB controller: ASMedia Technology Inc. ASM2142 USB 3.1 Host Controller
06:00.0 USB controller: ASMedia Technology Inc. ASM2142 USB 3.1 Host Controller
07:00.0 Non-Essential Instrumentation [1300]: Advanced Micro Devices, Inc. [AMD] Starship/Matisse PCIe Dummy Function
08:00.0 Non-Essential Instrumentation [1300]: Advanced Micro Devices, Inc. [AMD] Starship/Matisse Reserved SPP
08:00.3 USB controller: Advanced Micro Devices, Inc. [AMD] Starship USB 3.0 Host Controller
20:00.0 Host bridge: Advanced Micro Devices, Inc. [AMD] Starship/Matisse Root Complex
```

Connecting USB Storage Devices

1. Power on the system.
2. Connect the USB device to the HighPoint RocketU HBA with a USB cable.
3. For hard drives or enclosures, allow the device to spin up for a few moments. Once the devices are ready, they will be recognized by the operating system and can be accessed as needed.

FCC Part 15 Class B Radio Frequency Interference statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. European Union Compliance Statement This Information Technologies Equipment has been tested and found to comply with the following European directives:

- European Standard EN55022 (1998) Class B
- European Standard EN55024 (1998)

Customer Support

If you encounter any problems while utilizing this or any other HighPoint Technologies, Inc. product, feel free to contact our Customer Support Department.

Web Support:

<https://www.highpoint-tech.com/support-and-services>

HighPoint Technologies, Inc. websites:

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