



# RocketU 1022D

Dual-Port USB 3.2 5Gb/s PCIe 3.0 x1 HBA



**Quick Installation Guide**

**V1.00**

# Table of Contents

Introducing the HighPoint RocketU 1022D .....	2
Kit Contents .....	2
System Requirement .....	2
Board Layout .....	3
Installing the RocketU 1022D Host Adapter .....	4
Driver Installation .....	6
Verifying Installation (Windows) .....	6
Verifying Installation (Linux) .....	7
Verifying Installation (macOS).....	7
Connecting USB Storage Devices .....	8
FCC Part 15 Class B Radio Frequency Interference statement .....	8
Customer Support.....	9

## **Introducing the HighPoint RocketU 1022D**

The RocketU 1022D is an USB-A 3.2 5Gb/s PCIe 3.0 x1 host adapter. It can be easily installed into any x4/x8/x16 slot, and is natively supported by current versions of Windows/Linux/macOS distributions.

### **Support Industry Standard USB 3.x, 2.0 & 1.x Devices**

RocketU 1022D controllers can be installed into any computing platform with an industry-standard PCIe 3.0 or 4.0 x4/x8/x16 slot. The single independent USB Type-A port supports any industry standard USB 3.x, 2.0 and 1.x device, including USB hard drives and SSD's, cameras, printers, capture devices and peripherals.

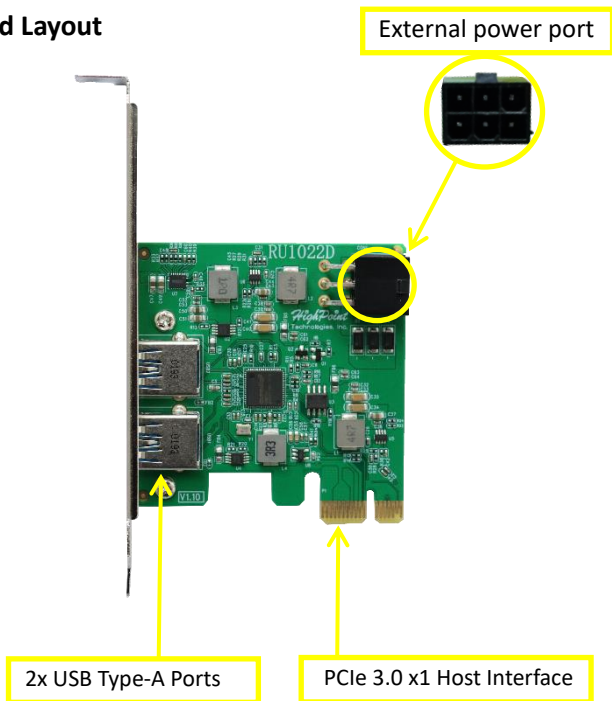
### **Kit Contents**

- RocketU 1022D host controller
- Quick Installation Guide
- Low Profile Bracket

### **System Requirement**

- PC with Windows 8.1 and later
- Linux kernel v2.6.31 and later
- MacOS 10.12.6 and later

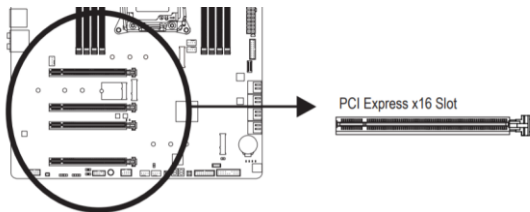
## Board Layout



## Installing the RocketU 1022D Host Adapter

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

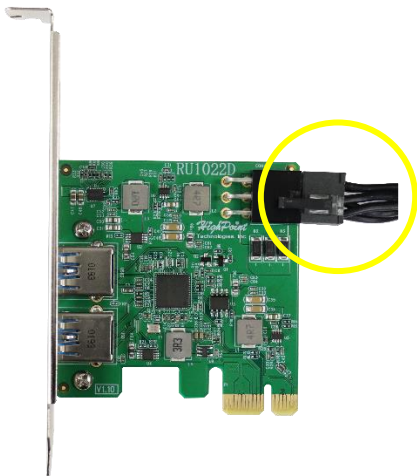
1. Open the system chassis and locate an unused PCI-Express x4/x8/16 slot.



**Figure 1 - PCIe x16 slot diagram**

2. Gently insert the RocketU 1022D 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.

**Note:** The RocketU 1022D provides an optional, external power connector; for most USB devices, power provided by the PCIe bus is sufficient. However, some devices may not be recognized by the host platform without additional current.



4. Close and secure the system chassis.

## Driver Installation

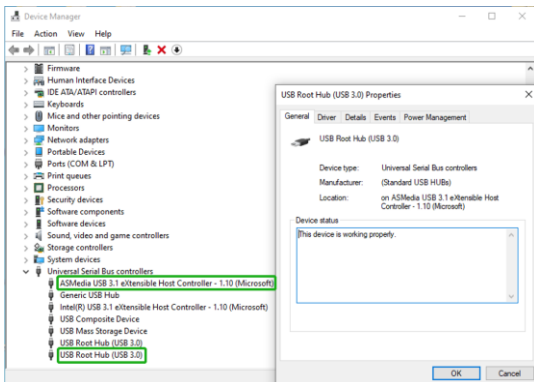
**Windows Platforms:** The RocketU 1022D is natively supported by Windows 8.1 and later (no driver installation is required).

**Linux Platforms:** The RocketU 1022D is natively supported by Linux v2.6.31 and later (no driver installation is required).

**Mac Platforms :** The RocketU 1022D is natively supported by macOS10.12.6 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, one "ASMedia USB 3.1 eXtensible Host Controller" and three "USB Root Hub" entry should be displayed.



## Verifying Installation (Linux)

1. Open terminal and enter the following command: **lspci**
2. If the driver is installed properly, one “ASMedia Device 3042” entry should be displayed.

```
root@test-k578-AM08i-MASTER:~# sudo su
[sudo] password for test:
Sorry, try again.
[sudo] password for test:
root@test-k578-AM08i-MASTER:~/home/test# lspci
00:00.0 Host bridge: Intel Corporation 8th/9th Gen Core 8-core Desktop Processor Host Bridge/DRAM Registers [Coffee Lake S] (rev 0a)
00:01.0 PCI bridge: Intel Corporation 8th-10th Gen Core Processor PCI Controller (x16) (rev 0a)
00:01.1 PCI bridge: Intel Corporation Atom E3-1200 v5/E3-1500 v5/6th Gen Core Processor PCI Controller (x8) (rev 0a)
00:02.0 VGA compatible controller: Intel Corporation CoffeeLake-S GT2 [UHD Graphics 630]
00:14.0 USB controller: Intel Corporation Cannon Lake PCH USB 3.1 XHCI Host Controller (rev 10)
00:14.2 RAM memory: Intel Corporation Cannon Lake PCH Shared SRAM (rev 10)
00:15.0 Communication controller: Intel Corporation Cannon Lake PCH HECI Controller (rev 10)
00:17.0 SATA controller: Intel Corporation Cannon Lake PCH SATA AHCI Controller (rev 10)
00:1b.0 PCI bridge: Intel Corporation Cannon Lake PCH PCI Express Root Port #17 (rev f0)
00:1c.0 PCI bridge: Intel Corporation Cannon Lake PCH PCI Express Root Port #1 (rev f0)
00:1c.1 PCI bridge: Intel Corporation Cannon Lake PCH PCI Express Root Port #6 (rev f0)
00:1f.0 ISA bridge: Intel Corporation Z390 Chipset LPC/eSPI Controller (rev 10)
00:1f.3 Audio device: Intel Corporation Cannon Lake PCH CAVS (rev 10)
00:1f.4 SMBus: Intel Corporation Cannon Lake PCH SMBus Controller (rev 10)
00:1f.5 Serial bus controller (eSATA): Intel Corporation Cannon Lake PCH SPI Controller (rev 10)
00:1f.6 Ethernet controller: Intel Corporation Ethernet Connection (7) I219-V (rev 10)
01:00.0 USB controller: ASMedia Technology Inc. Device 3042
```

## 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 “pci1b21,3042” USB eXtensible Host Controller.

The screenshot shows the macOS System Information window. On the left, the 'Hardware' section is expanded, and 'PCI' is selected. The main pane displays the details for the 'pci1b21,3042' device:

pci1b21,3042:	
Type:	USB eXtensible Host Controller
Driver installed:	Yes
Tunnel Compatible:	Yes
Pause Compatible:	Yes
MSI:	Yes
Bus:	PCI
Slot:	Thunderbolt@63,0,0
Vendor ID:	0x1b21
Device ID:	0x3042
Subsystem Vendor ID:	0x1103
Subsystem ID:	0x1022
Revision ID:	0x0000
Link Width:	x1
Link Speed:	8.0 GT/s

The breadcrumb at the bottom reads: "tdest's MacBook Pro\_2018\_110 > Hardware > PCI".



## 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:**

<https://www.highpoint-tech.com>