



RocketU 1400 Series

Dedicated USB 3.2 20Gb/s Per-Port Performance PCIe 3.0 Host Controllers

Industry's Fastest USB HBAs: Dedicated 20G USB 3.2 Controller per Port!

Dedicated Per-Port Performance Architecture

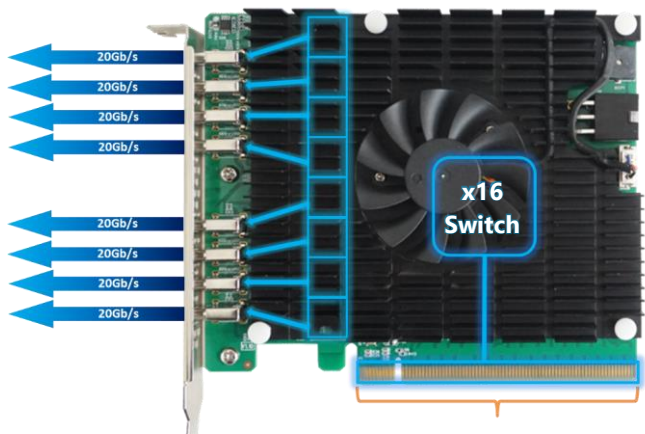
Up to 8x 20Gb/s Transfer Bandwidth!

HighPoint RocketU 1400 Series PCIe controllers are the industry's fastest USB Host Adapters. Each USB device port is fully independent and powered by a dedicated 20Gb/s USB 3.2 controller chip, backed by a robust PCIe 3.0 host interface.

Our unique 20Gb/s Per-Port Performance controller architecture ensures each hosted USB device can operate at maximum throughput without saturating the bus or taxing system resources.

Feature Highlights

- Available with 1x to 8x Dedicated USB Type-C 3.2 20Gb/s Ports
- Dedicated PCIe 3.0 Host Interface
- True Alternative to Thunderbolt™3 Connectivity
- Ideal for professional-grade, High-Speed Data Acquisition & Transfer Applications
- Driverless Installation: Native xHCI Support



PCIe 3.0 x16 Bus Bandwidth (RocketU 1488C)

Blazing Fast PCIe 3.0 Host Interface

The blazing fast PCIe 3.0 host interface works in tandem with our Per-Port Performance architecture to ensure each individual USB port can deliver 20Gb/s of transfer bandwidth at all times, even in cases where each port is occupied and under heavy load.

Dedicated USB Controllers Provide Independent Device Paths & Power Delivery

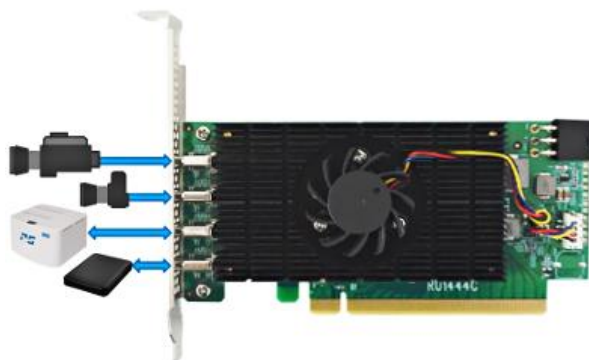
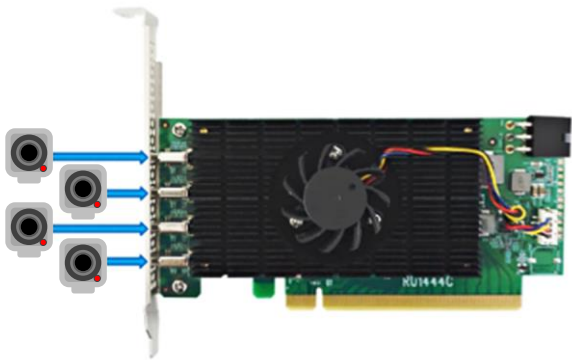
Dedicated USB 3.2 controllers enable each port to work independently and deliver up to 7.5W of power for device operation or charging purposes. The innovative PCB layout provides a dedicated USB connection pathway for each port; hosted USB devices can operate at peak performance, without the risk of interference by neighboring USB connections.

Ideal for High-Speed Data Acquisition and Capture Applications

The RocketU 1400 Series performance-focused HBA architecture was designed for workflows that demand ease of integration, hot-plug capability, and rapid file transfer. The independent 20Gb/s USB ports and PCIe 3.0 host interface can easily accommodate a wide range of high-speed data acquisition applications, including imaging and capture solutions, security systems, and media archiving.

USB Cameras & Imaging/Capture Devices

Media Processing & Archiving



Feature Specifications	RU1411C	RU1444C	RU1488C
Host Bus Interface	4-lane, 8 GT/s PCI Express 3.0 Compliant	16-lane, 8 GT/s PCI Express 3.0 Compliant	16-lane, 8 GT/s PCI Express 3.0 Compliant
Interface Technology	Supports up to USB 3.2 20Gb/s link speed. Backwards compatible with USB 3.x / 2.0		
Supported Standard	xHCI, UASP		
Operating System & Platform Support			
Mac compatibility	Not Supported		
Windows compatibility	Computer with PCIe slots; Windows 11/10/8.1, Windows Server 2022/2019/2016/2012/2008 (64-bit editions)		
Linux compatibility	Computer with PCIe slots; Linux kernel 3.10.0 and later		
Thunderbolt PCIe Expansion compatibility	Yes; Supports USB 3.x devices when card is installed in a Thunderbolt to PCIe Card Expansion System (Requires RS6661A)	Not Supported	Not Supported
Number of Channel / Port	1	4	8
Port Type	USB Vertical Type C	USB Vertical Type C	USB Vertical Type C
Data Transfer Rates:	Up to 20Gb/s per port		
Number of Devices	1 x USB 1.x, 2.0, and 3.x compatible devices	4 x USB 1.x, 2.0, and 3.x compatible devices	8 x USB 1.x, 2.0, and 3.x compatible devices
USB port amperage	1.5A output per port	1.5A output per port	1.5A output per port
Bus Powered Peripherals	Up to 7.5W per port for device operation or charging		
External Power Support	n/a	Yes (Use 6pin PCIe Power Connector)	Yes (Use 6pin PCIe Power Connector)
Cooling System	n/a	Full-Length Anodized Aluminum heat sink with fan	Full-Length Anodized Aluminum heat sink with fan
Form Factor	Low Profile	Low-Profile	Full Height
Dimensions	3.13" W x 2.56" H x 0.82" D	5.67" W x 2.71" H x 0.70" D	5.09" W x 4.36" H x 0.79" D
Weight	0.42 lbs.	0.68 lbs.	0.73lbs.
Warranty	2 Years		
Compliance Certification	CE, FCC, RoHS, REACH, WEEE		
Storage Features			
Bootable Drive support	Yes (Linux)	Yes (Linux)	Yes (Linux)
Drive hot-plug support	Yes	Yes	Yes
Operating Environment			
Work Temp:	5°C ~ 45°C	5°C ~ 45°C	5°C ~ 45°C
Storage Temp:	40°C ~ 65°C	40°C ~ 65°C	40°C ~ 65°C
Operating Voltage	PCI-e: 12V, 3.3V	PCI-e: 12V, 3.3V	PCI-e: 12V, 3.3V
Power	Typical: 1.56W	Typical:27.62W(card only)	Typical:25.98W(card only)
MTBF (Mean Time Before Failure)	920,585 Hours	920,585 Hours	920,585 Hours
Kit Contents			
Model	RocketU 1411C	RocketU 1444C	RocketU 1488C
Controller card	1x Controller card	1x Controller card	1x Controller card
Quick Installation Guide	1x Quick Installation Guide	1x Quick Installation Guide	1x Quick Installation Guide
Low Profile Bracket	1x Low Profile Bracket	1x Low Profile Bracket	N/A

RocketU 1400 Series		
RocketU 1411C	RocketU 1444C	RocketU 1488C

HighPoint Certified Cabling Accessories

HighPoint Certified USB Accessories are fully compliant with all current technology standards and have been rigorously tested with our USB HBA's, USB Enclosures, USB Drive Docks, and a variety of motherboard and computing platforms to ensure maximum transfer performance, secure connectivity, and ease of integration.

As we cannot guarantee secure connectivity, optimal transfer bandwidth, stability, or compatibility with unqualified third-party cables, adapters, or enclosures, only HighPoint Certified accessories used with our product lines.

Certified Accessories	
	USB-C31-1MC - Type-C to Type-C cable, 1 meter

HighPoint Headquarters
 Phone 1-408-942-5800
 Fax 1-408-942-5801
 E-mail sales@highpoint-tech.com
 Website www.highpoint-tech.com
 Address 41650 Christy St. Fremont
 CA, 94538

HighPoint China
 Phone + 86(10)-53519056 (Ext. 8003)
 Fax + 86-10-6897-5074
 E-mail sales@highpoint-tech.com
 Website www.highpoint-tech.cn
 Address ROOM 512, Building 1,
 No 4 JinHang Xi Rd, ShunYi District
 Beijing, 101318, China

