Unbeatable 20G Per-Port USB Solutions for Speed-Intensive Data Acquisition!

HighPoint RocketU 1400 Series 20G USB HBAs were designed for professional applications that require robust connectivity solutions capable of accommodating a wide range of high-speed data acquisition applications, such as a 3D Imaging or motion capture platform, hi-def security system, ADAS sensor suites, IOT devices and spectrum analyzers.

RocketU 1400 series HBAs employ the latest iteration of our market leading per-port performance PCB architecture, which ensures each device port is paired with a dedicated USB 3.2 Gen2 20G USB controller IC. Unlike previous product generations, which were only available with up to four device channels, RocketU 1400 controllers are available with up to eight independent USB Type-C ports, and can provide up to 16,000MB/s of transfer bandwidth.

Video Link: https://youtu.be/1Z1FmzzgCCI

Built for High-Performance Applications

20G USB connectivity is ideal for industrial, scientific and media applications that require high-performance connectivity solutions that can be easily integrated into industry standard PC-based hardware platforms. USB devices are cost effective, easy serviced, and are universally compatible with any modern computing platform and operating system.

Volumetric (3D) Video and Image Capture solutions employ multiple high-definition cameras to record one or more objects in 3-dimensional space. These cameras capture large volumes of data which is then transferred to a central storage device, often a cloud-based server, for processing. Each camera requires dedicated bandwidth in order to minimize latency, and preserve image quality.

Machine Learning or AI applications, such as a quality control system for an automated (robotic) assembly line, or *ADAS (Advanced Driver Assistance Systems) / AD (Autonomous Driving)* input solutions, also capture and monitor continuous streams of incoming data via a series of cameras and sensors.

Although these applications vary in and scope and purpose – they all share one common thread; the need for a connectivity solution capable of handling multiple concurrent, independent data streams at maximum throughput. This is the RocketU 1400 series' bread and butter.

HighPoint's Per-Port Performance architecture provides independent connection paths, with guaranteed transfer bandwidth.

Powered by HighPoint's Per-Port Performance USB Architecture; Maximum Bandwidth & Independent Resources

RocketU 1400 HBAs are powered by HighPoint's Per-Port Performance 20G USB hardware architecture, which enables each device port deliver maximum bandwidth, concurrently. Each independent device channel is backed by a dedicated USB 3.2 20G controller, and robust PCIe 3.0 host interface; x4 for the RocketU 1411C, and x16 for the RocketU 1444C and RocketU 1488C. This design enables each port to operate as an independent 20G controller; hosted devices can operate independent of one another, simultaneously, without fear of performance loss.

In addition to the dedicated bandwidth, each port delivers up to 7.5W of power for device operation or charging purposes.

Easy to Install and Configure

RocketU 1400 series HBAs are true plug-and-play devices, and can be easily integrated into any industry standard Intel, AMD, or ARM-based computing platform with a PCIe 3.0 or 4.0 host interface. No software suite or device driver installation is necessary; RocketU 1400 HBAs are xHCI compliant devices, and are natively supported by all modern Windows operating systems and Linux distributions. RocketU 1400 series HBAs are equipped with industry standard Type-C ports for maximum compatibility, accept a wide range of USB cabling accessories, and are capable of supporting any industry standard USB 3.x/2.x device.

Certified Cable Accessories

HighPoint manufactures a selection of certified data cables for USB HBAs and Enclosure products. HighPoint Certified Cable accessories are fully compliant with all current USB technology standards and have been rigorously tested with our RocketU series HBAs to ensure maximum transfer performance, secure connectivity, and ease of integration.

USB-C31-1MC (20G/10G USB-C to USB-C, 1 Meter Length, 15W)

Pricing and Availability

The RocketU 1400 Series HBAs are available from our North American Resale and Distribution partners, and direct from the HighPoint eStore.

RocketU 1411C (RU1411C) – 1x USB 20G Type-C Port: MSRP $59.00 USD
RocketU 1444C (RU1444C) – 4x USB 20G Type-C Ports: MSRP $399.00 USD
RocketU 1488C (RU1488C) – 8x USB 20G Type-C Ports: MSRP USD $699.00