



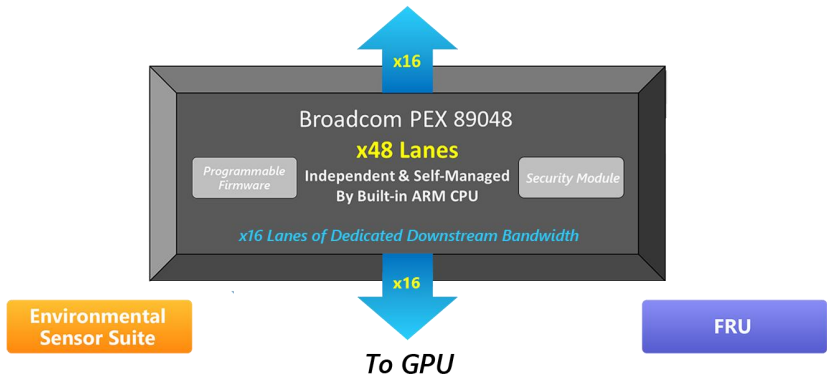
RocketStor 8631CW

PCIe Gen5 x16 eGPU Expansion Chassis

HighPoint's RocketStor 8631CW is a high-performance eGPU expansion chassis designed for applications requiring high bandwidth and low latency. The RocketStor PCIe GPU Expansion chassis represents the industry's only true dedicated PCIe Gen5 x16 solutions, designed to unlock the full potential of top-tier NVIDIA, AMD, and Intel GPUs. This breakthrough technology is ideal for platforms constrained by limited PCIe slot space or encounter performance bottlenecks with Thunderbolt or OcuLink solutions.

Industry Leading PCIe Switching Architecture

RocketStor 8631CW is powered by HighPoint's revolutionary PCIe Gen5 Switching Architecture, which leverages Broadcom's industry-leading PEX89048 IC to optimize signal integrity, minimize latency, and maximize data transfer speed. This solution provides 48 lanes of internal PCIe Gen5 bandwidth; 16 lanes to the upstream connection for both the host platform and GPU; achieves a maximum data transfer rate of 64GB/s; and minimizes latency through optimized design and components.



Advanced Field Service Feature Suite

FRU (Field Replicable Unit) Support: Rocket 1634D is field replaceable units (FRU); the VPD stored on each adapter enables customers and service providers to easily procure replacements with the correct firmware/driver combination.

Superior Performance and Universal GPU Compatibility

Leveraging industry-leading PCIe switching technology, the RocketStor 8631CW ensures x16 host-to-device bandwidth, delivering unrestricted performance for demanding workloads, superior performance than conventional Thunderbolt or OcuLink solutions.

The RocketStor 8631CW supports a wide range of full-height, 2-slot, and 3-slot GPUs from leading manufacturers like NVIDIA, AMD, and Intel, making it a versatile choice for diverse computing needs.

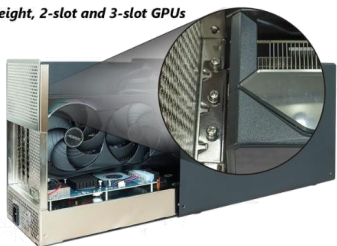
Advanced Cooling System

To maintain optimal performance, the RocketStor 8631CW features a robust dual-fan cooling system with programmable smart fan control. This system effectively dissipates heat, preventing thermal throttling and ensuring that your system runs at peak performance even under heavy loads.

Feature Highlights

- **Unrestricted Performance:** Industry Leading PCIe Switching technology guarantees x16 lanes of dedicated Gen5 bandwidth
- **Universal GPU Compatibility:** Support industry standard full-height, 2-slot, and 3-slot GPUs from all leading manufacturers.
- Directly Provides up to **600W of power** for high-end GPUs
- Robust, Enterprise Grade External **PCIe x16 CDFP Gen5** connectivity
- **Low-profile host interface** adapter is Ideal for compact systems
- **Advanced Dual-Fan Cooling System** with Programmable Smart Fan Control prevents thermal throttling
- **Seamless, Plug-and-Play Software-less Installation** for Linux & Windows Platforms

Supports full-height, 2-slot and 3-slot GPUs



Pro-Active Hardware Monitoring System

The RocketStor 8631CW includes automated smart modes and manual operation flexibility, paired with an intuitive user interface that tracks and logs the status of the GPU, enclosure, and hostAdapter hardware in real time. Additionally, the product is equipped with hardware monitoring capabilities, including GPU operating status, electrical characteristics, fan control features, GPU/enclosure temperature, and PCIe connection status, providing comprehensive insights into system health and performance.

Elegant & Robust: CopprLink Connectivity & Power Delivery

Equipped with external CopprLink cables, the RocketStor 8631CW offers enterprise-grade reliability and low-latency connectivity, ensuring seamless and high-performance data transfer for demanding workloads.

The chassis provides up to 600W of direct power, ensuring that even the most power-hungry GPUs operate at peak performance.



Product Model	RocketStor 8631CW
Hardware Features	
Host Interface Card	Rocket 1634D
Enclosure Device	RocketStor 8631C
Cable	1M CDFP to CDFP Cable (Gen5 CopprLink Compliant)
Rocket 1634D Hardware Features	
Bus Interface	PCI-Express 5.0 x16
Hardware Architecture	Broadcom PEX 89048 PCIe Switch Technology
CooprLink Compliant	Yes (CDFP Pin Definition)
Number of Channel / Devices	1 x CDFP (Dedicated PCIe 5.0 x16 per port)
Port Type	CDFP (Gen5)
Data Transfer Rate	64GB/s
LED Indicators	
Host Status LED	Indicates the Bandwidth of Rocket 1634D's PCIe connection (Connection with MotherBoard)
CDFP Status LED	Indicates the CDFP Connection Status (to External Chassis)
Power Measurement	Yes
FRU Support	Store VPD
CDFP Hotswap	No
Form Factor	Low Profile
Dimensions	68.9 mm X 165 mm
RocketStor 8631C Hardware Features	
Bus Interface	PCI-Express 5.0 x16
Number of Channel / Host	1
Hardware Architect	Asteralabs PCIe 5.0 Retimer Technology
CooprLink Copmliant	Yes
Host Port Type	CDFP (Gen5)
Data Transfer Rate	64GB/s
Number of GPU Supported	1
GPU Support	All GPU
	370mm x 170mm (to Gold Finger) x 88mm & below
Power Measurement	Real Time Power Measurement
Audible Alarm	High Temperature, Low-Fan Speed Warnings
Front Panel LEDs	
Power Switch	Powers On/Off the unit. Illuminates blue when powered On.
Back Panel	
CDFP Port	Upstream Port for PCIe 5.0 1x16
Mute Button	used to mute the audible alarm
Supported Systems	
OS Support	Any OS with native PCIe device support
Software Secure Boot	Yes
Hardware Secure Boot	Yes
Management Software	
Firmware Upgrade Tools (MPT Utility)	Used to upgrade both the MCU firmware and Retimer Firmware

Operating Environment	
Working Temp.	+5°C ~ + 55°C
Storage Temp.	-20°C ~ +80°C
Operating Voltage	100V ~ 240V AC In; 600W
Power	TBA
MTBF (Mean Time Before Failure)	TBA
Kit Contents	
Kit Contents	1x Rocket 1634D
	1x External PCIe Chassis (RocketStor 8631C)
	1x CopprLink Cable (Gen5 , 1M)
	1x QIG
	1x 2x4 connectors to 2x4 connectors Cable (x3)
	1x UL Cable

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