



Mission Ready Data Security

Ready for action

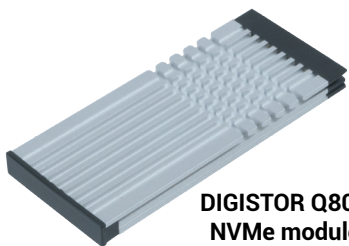
CRU brings its expertise in constructing rugged, military-engineered data storage to the all-new Secure High Performance Storage (SHIPS) standard, a removable PCIe-based NVMe SSD storage architecture that supports a variety of compute platforms from desktop PCs, tactical computers, and edge devices in the office or in theater.

Put simply, SHIPS-compliant devices are the fastest and most robust way to transport and secure large-volume data. Our DIGISTOR Q80/Q80R NVMe modules are the centerpieces of the platform offering. SHIPS devices enable quick data transfer between workstations, desktops, drones, specialized vehicles, and other applications.

The ruggedly built modules make it easy to secure and compartmentalize data.

Designed for the next generation

The CRU SHIPS platform design combines the extraordinary performance of PCIe/NVMe storage with our 30+ years building removable drives the military relies on for security, flexibility, and utility. The SHIPS platform architecture supports PCIe gen 3 and is futureproofed for gen 4 – the fastest standard available today. While traditional SATA drives max out at 6 Gbps, the SHIPS platform will launch with theoretical speeds of 32 Gbps!



**DIGISTOR Q80R
NVMe module**



**DIGISTOR Q80
NVMe module**

Customizable for specific mission requirements

A SHIPS-compliant module is interchangeable among a variety of device types, from edge/IoT to desktop to custom systems. CRU will provide engineering details to developers designing custom systems.



**CRU QX448
installed in workstation**



Four-module CRU Qx448 device for standard 5.25" bays, built to withstand tens of thousands of opens

CRU SHIPS MODULE SPECIFICATIONS

Q80/Q80R modules

Weight: 1.91 oz (54g)

Power: 6W max TDP (Q80)
Power: 11W max TDP (Q80R)

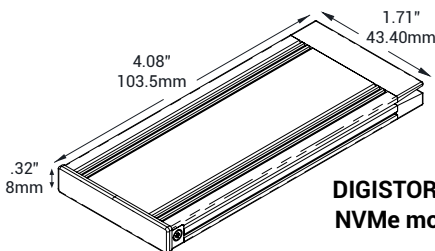
NVMe Storage: Capacities up to 2TB
• Optional FIPS 140-2 encryption
• Hot swappable
(*when using CRU's Host Bus Adapter)
• Ask about custom options

Host Bus Adapter
• PCI gen 3 x16 edge card
• M.2 adapter

Manufacturing
• Manufactured in ISO9001 compliant facilities
• TAA compliant

Options
• Modules can be custom labeled per MIL-STD-130

Environmental
• Q80: Suitable for commercial environments
• Designed and tested to MIL-461, DO160, MIL-810



DIGISTOR Q80 NVMe module

Platform highlights:

- PCIe gen 4 speeds up to 3200MB/s
- Ultra-compact, lightweight and rugged construction
- Thermally optimized modules minimize performance throttling
- Hot-swap capable*
- EMI/RFI protected design
- Robust cam-action locking levers for ingestion docks
- Modules are interchangeable across multiple devices

Docking components

To dock a Q80/Q80R, CRU has developed multiple ingestion frames, including a four-module device for 5.25-inch bays, and a single-module device for 9mm optical bays.



Built to go and go

Constructed with a military-grade aluminum body, we've engineered our Q80/Q80R modules to be rugged enough to follow the action. Plus, we've tested our connector and rated it for tens of thousands of insertions, meaning that a single Q80/Q80R modules will survive years of daily use. Light and small enough to integrate into wearable computers, the Q80/Q80R modules can easily record or deliver mission data.

Decades of experience, millions installed

CRU's removable drives are the industry standard for transporting and securing large volumes of data. Trusted by government agencies and the military, our removables are incorporated into workstations, PCs, laptops and other computing devices. CRU is proud to be the exclusive supplier of removable drives to many major manufacturers worldwide.

For more information, please contact:

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