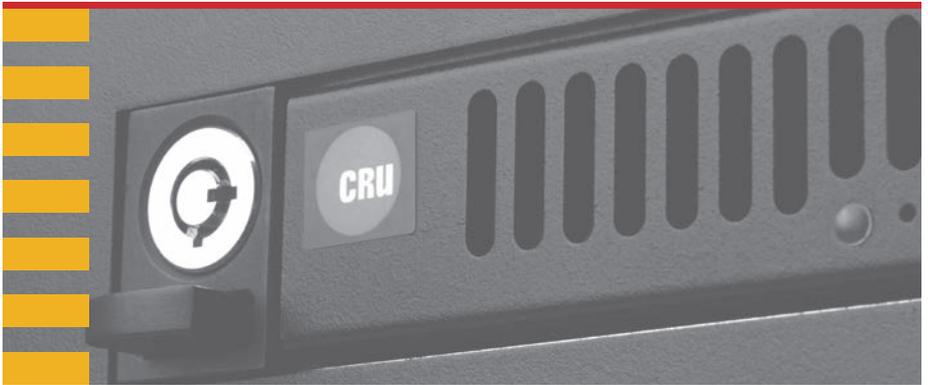




Protecting
Your Data™



Data Express® QX310 v2

Quick Start Guide

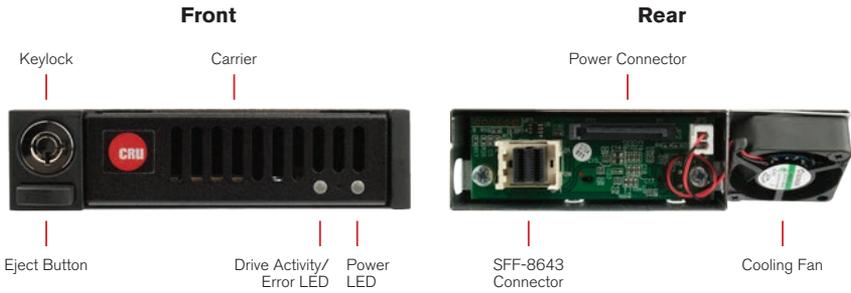
Features

- CRU® ruggedness provides thousands of removal/insertion cycles for PCIe SSDs
- Carriers available for both M.2 and U.2 NVMe devices
- Blazing fast 32 GT/s (31.5 Gbps) transfer speeds
- Physical lock and key secures the drive yet allows for easy removability and transport
- Smart thermal design is optimized for low sound levels



1 General Information

1.1 Identifying Parts



1.2 LED Behavior

LED	Color	STATE	Description
Drive Power	Green	Blinking	The QX310 v2 is powering on.
		Solid	The QX310 v2 is on.
	Green/ Red	Alternating Color	The fan inside the QX310 v2 has failed. Contact Technical Support for a replacement.
Drive Activity/Error	Amber	Blinking	The device inside the QX310 v2 is being accessed by your computer.

2 Installation

2.1 Frame Installation

- Install an OcuLink (SFF-8612) or SFF-8643 adapter card into your computer.
- If the QX310 v2 carrier is locked into the frame, insert a Data Express Key into the lock and turn it 90 degrees counterclockwise. Push in the ejection button to pop the carrier out and remove it from the frame.
- Insert the frame into a 3.5-inch bay opening and secure it using the supplied screws.
- Connect a compatible cable to the card adapter and connect the other end to the QX310 v2 receiving frame.

STOP!

SFF-8643 cables require 85Ω impedance for PCIe/NVMe compatibility when used with the QX310 v2. Compatible adapter cards and cables, as well as a 5.25-inch bay adapter and an M.2 adapter are available for purchase on the QX310 product page at cru-inc.com.

NOTE

An M.2 slot (with CRU M.2 adapter) or a PCIe 3.0 slot on your computer is required for full performance. However, older PCIe slots will also work with reduced performance.



2.2 M.2/U.2 Device Installation

There are two types of carriers compatible with the QX310 v2 frame. The M.2 Carrier supports 30mm, 42mm, 60mm, 80mm, and 110mm M.2 NVMe devices of any standard width, and the U.2 carrier supports U.2 NVMe devices.

2.2.1 M.2 Installation

- a. Use a Phillips screwdriver to remove two screws from rear of carrier and remove the cover from the carrier.
- b. Remove the protective covering from the thermal sensor located in the middle of the carrier board.
- c. Install your M.2 SSD using the provided washer and screw.
- d. Replace the carrier cover and refasten with two screws.

2.2.2 U.2 Installation

- a. Use a Phillips screwdriver to remove two screws from rear of carrier and remove the cover from the carrier.
- e. Remove the protective covering from the thermal sensor located in the middle of the carrier board.
- b. Install your U.2 SSD using the provided screws.
- c. Replace the carrier cover and refasten with two screws.

3 Operating Your QX310 v2

3.1 Basic Operation

- a. Insert the carrier into the receiving frame.
- b. You may optionally lock the carrier into the frame for added security or to prevent accidental ejection from the frame. Insert the Data Express Key into the keylock and rotate it 90 degrees clockwise to lock the carrier.
- c. Power on the computer if you have not already done so.

Your Data Express QX310 v2 is now ready to use! If the media inside is already formatted, it can be used right away. If the media is brand new or its format is not compatible with your computer, the media will need to be formatted before being used.

3.2 Safe Carrier Removal

- a. Turn off the computer.
- b. If the carrier is locked into the frame, insert a Data Express Key into the lock and turn it 90 degrees counterclockwise.
- c. Press the eject button to remove the carrier from the frame.

Product Models	Data Express QX310 v2
Frame Interface Types & Speeds	SFF-8643: up to 32 GT/s (~31.5 Gbps)
Supported Device Types	30mm, 42mm, 60mm, 80mm, and 110mm M.2 NVMe devices of any standard width U.2 NVMe devices
Data Connectors and Cables	One (1) SFF-8643 connector (cable requires 85Ω impedance for PCIe/NVMe compatibility)
Power Connector	One (1) 15-pin SATA connector
Torque	M.2 SSD, M3 screws: 4 inch-pounds max. U.2 SSD, M3 screws: 4 inch-pounds max.
Fan	Dual-speed fan controlled by drive temperature
Supported Operating Systems	Windows 10, 8.1, and 7 Windows Server 2016, 2012 and 2008 product families macOS 10.12 "Sierra" or newer Linux distributions that support the connection type used
Compliance	FCC Part 15 Class B EMC Standard: EN55024, EN55032
Product Weight	1.00 pounds (0.45 kg)
Product Dimensions	3.94in W x 5.91in L x 0.98in H (100mm W x 150mm L x 25mm H)
Technical Support	Your investment in CRU products is backed up by our free technical support for the lifetime of the product. Contact us through our website, cru-inc.com/support or call us at 1-800-260-9800 or +1-360-816-1800.

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Product Warranty

CRU warrants this product to be free of significant defects in material and workmanship for a period of three years from the original date of purchase. CRU's warranty is nontransferable and is limited to the original purchaser.

Limitation of Liability

The warranties set forth in this agreement replace all other warranties. CRU expressly disclaims all other warranties, including but not limited to, the implied warranties of merchantability and fitness for a particular purpose and non-infringement of third-party rights with respect to the documentation and hardware. No CRU dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty. In no event will CRU or its suppliers be liable for any costs of procurement of substitute products or services, lost profits, loss of information or data, computer malfunction, or any other special, indirect, consequential, or incidental damages arising in any way out of the sale of, use of, or inability to use any CRU product or service, even if CRU has been advised of the possibility of such damages. In no case shall CRU's liability exceed the actual money paid for the products at issue. CRU reserves the right to make modifications and additions to this product without notice or taking on additional liability.

FCC Compliance Statement: *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.*

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 when the equipment is operated in a home or commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

In the event that you experience Radio Frequency Interference, you should take the following steps to resolve the problem:

- 1) Ensure that the case of your attached drive is grounded.
- 2) Use a data cable with RFI reducing ferrites on each end.
- 3) Use a power supply with an RFI reducing ferrite approximately 5 inches from the DC plug.
- 4) Reorient or relocate the receiving antenna.

