

# Data Express DX115 SAS Install Guide

## Removable SAS Drive Enclosure

**NOTE:** For SAS operation, a SAS controller and SAS hard drive are required.

SAS DX115 receiving frame supports SAS and SATA drives.  
SATA 3Gb/s DX115 receiving frame supports SATA drives only.

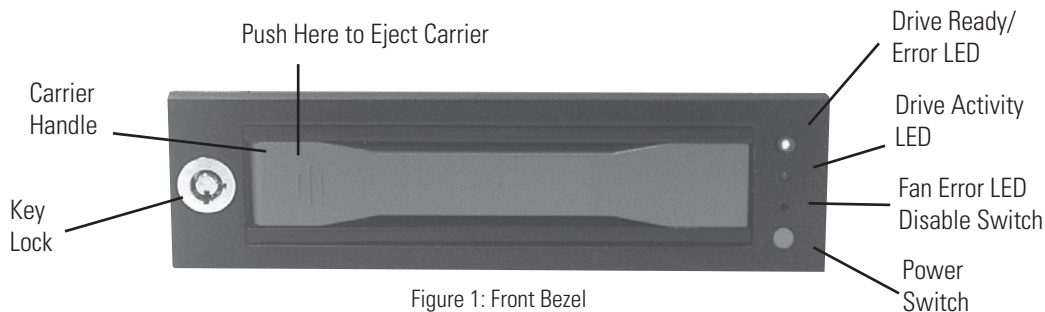


Figure 1: Front Bezel

### Key Lock

This lock prevents unauthorized removal or installation of the carrier.

### Carrier Handle

This handle allows the ejection and installation of the drive carrier.

To eject the carrier, simply push on carrier handle. Once handle pivots outward, pull handle to remove carrier.

To install the carrier, simply insert the drive carrier into the receiving frame. Push handle in to fully seat carrier into the receiving frame.

### Power Switch

This switch allows the drive carrier to be powered OFF/ON at anytime.

If the drive is already installed in the receiving frame before a system power up, you do not have to press and hold the switch to power on the drive. During system power up, the drive will automatically spin-up and the Drive Ready LED will flash. Drive is ready to be accessed when Drive Ready LED is ON.

**CAUTION:** It is the responsibility of the user to ensure that the host does not access the drive while attempting to remove the drive. Failure to do so may result in loss of data and/or damage to the drive itself!

OFF - Press and hold down switch until the Drive Ready LED starts to flash. Drive is ready to be removed when the Drive Ready LED is OFF.

ON\* - Press and hold down switch until the Drive Ready LED starts to flash. Drive is ready to be accessed when the Drive Ready LED is ON.

\*Only necessary if (1) Drive is inserted into the receiving frame after a system power up. (2) Drive was removed and inserted while system is powered on.

### Operation

#### Drive Ready/Error LED

This bi-color LED indicates either the status of the drive or fan/DC power, depending on the color.

**Drive Ready (blue):** Flashing blue LED indicates that drive is inserted and powering up. Steady blue LED glow indicates drive is powered on and ready for access.

**Error (red):** Flashing red and blue LED indicates a fan failure. Steady red LED glow indicates DC power failure. Flashing red LED indicates a SAS drive inserted into the receiving frame (SAS drives are not supported).

#### Drive Activity LED

This amber LED indicates when the host computer is accessing the data on the drive. LED will flash during communication with the host computer.

Most SAS drives provide support for the Drive Activity LED feature (refer to your SAS drive manufacturer's documentation for further information).

If your drive does not support this feature, the Drive Activity LED can be enabled via host connection (cable not included) to Pin 1 located on Receiving Frame Motherboard (Figure 2). Refer to your SAS PC system/host controller manufacturer's documentation for further information.

## Fan Error LED Disable Switch

This switch allows the user to disable the Fan Error LED (insert a paper clip or similar object to activate switch). CRU-DataPort recommends replacing a faulty fan immediately. Contact CRU-DataPort for spare fan ordering information.

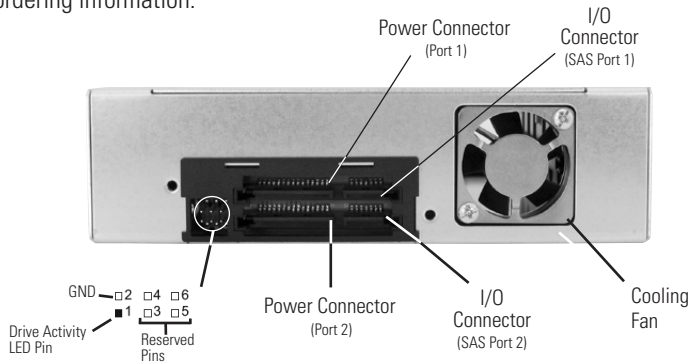


Figure 2: DX115 Receiving Frame Rear Panel

## SATA Power Connector

15-Pin SATA power connector to accept DC power.

**Note:** If your system does not accommodate the SATA power connector, simply use the SATA-to-DC Power adapter cable (included in the accessory bag) to connect to your system's DC power.

## Drive Activity LED Pins

Pin 1 can be used for host connection (cable not included) to the Drive Activity LED (Figure 2) if your drive does not support this feature (refer to your SAS PC system/host controller manufacturer's documentation for further information).

## Factory Reserved Pins

These pins are reserved for factory use only - Do not install jumper under any circumstances!

## Cooling Fan

Field-replaceable fan provides ample cooling (4.6 CFM) for drive.

## Installation

**NOTE:** A #1 and #2 Phillips screwdriver will be required during this procedure.

1. Remove the drive cover from the DX115 drive carrier and save the screws.
2. Carefully insert the drive (not included) into the carrier. Slide the drive towards the Drive Carrier Board, so that the I/O connector on the drive mates with the connector on the Drive Carrier Board (Figure 3). Turn the drive/carrier assembly over.
3. Fasten the drive into place with four (4) #6-32 Phillips Flat Head screws (Figure 3). Some drives may require minor adjustment before securing into carrier with screws.
4. Install the provided drive cover.

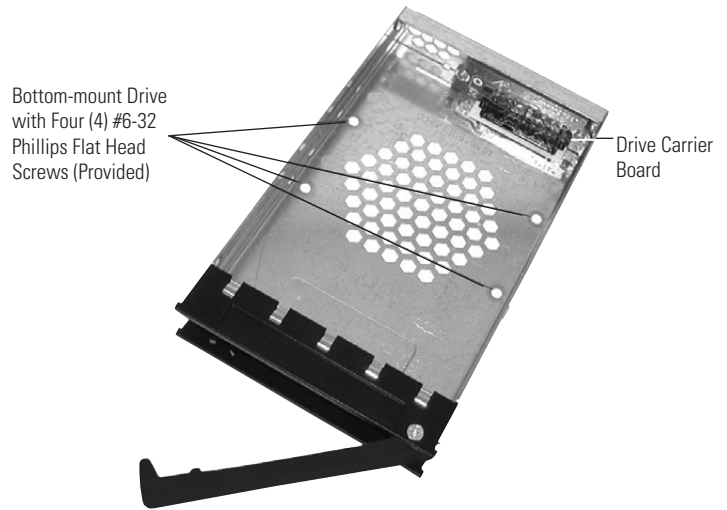


Figure 3 - Drive Installation

## Limited Product Warranty

CRU-DataPort (CRU) warrants the Data Express DX115 to be free of significant defects in material and workmanship for a period of five 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.

## Certification

EMI Standard: FCC Part 15 Class B, CE CISPR B  
EMC Standard: EN55022, EN55024

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to 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

Register your product at [www.CRU-DataPort.com](http://www.CRU-DataPort.com)

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