

CRU DataPort™ 4U Rackmount Enclosure User's Guide

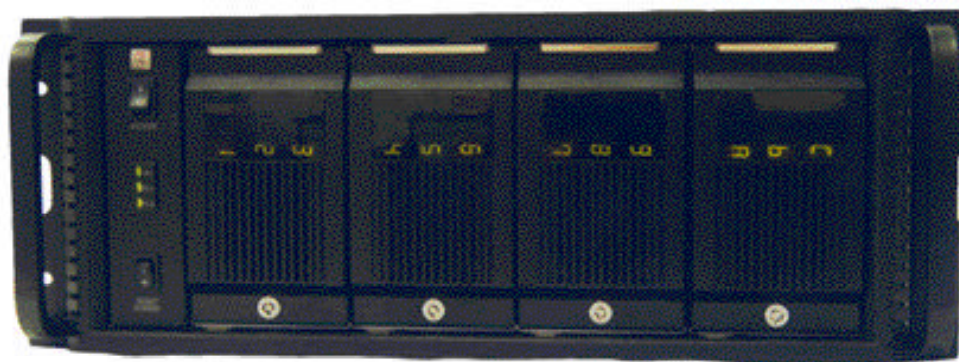




Figure 1 **DataPort™ 4U Rackmount Enclosure with DataPort 3n2's**

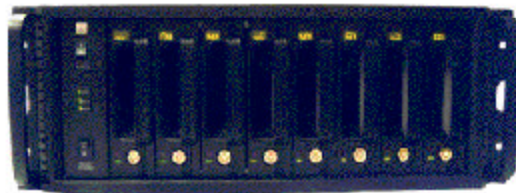


Figure 2 **DataPort™ 4U Rackmount Enclosure with DP VI's**

Package Contents

Inspect the package to determine if there are any damaged or missing items. If you notice a problem, immediately contact the shipping carrier and CRU's RMA department.

- 2 - 120V Power cords
- 1 - Terminator
- 1 - SCSI III Cable, 68 Pin M/M
- 1 - DataPort™ 4U Rackmount Enclosure Manual
- 1 - DataPort™ Manual and Backplane Manual or DataPort™ 3n2 Manual
- 1 - Power Supply Manual

Keep all the packaging materials. If you must return the product to CRU for servicing, the product must be repackaged in the original protective packaging. Damages due to shipping in an unauthorized container will not be covered under the warranty and may void the warranty.

DATAPORT™ 4U RACKMOUNT ENCLOSURE

The Enclosure provides a total of eight half-height 5.25" storage bays. All the bays are externally accessible from the front.

Power Supply

The DataPort™ 4U Rackmount Enclosure comes with a dual 300W hot-swappable power supply system. The system hot-swappable capability allows you to swap out a failed power supply without turning off the entire system.

Please see the power supply manual for more details.

Safety Instructions

For your safety, as well as the safety of your computer equipment, please follow these instructions while handling your DataPort™ 4U Rackmount Enclosure:

- Do not drop the enclosure.
- Do not open or make any unauthorized modifications to the power supply.
- Do not expose any computer equipment to liquids, damp weather, dust, magnetic fields or direct sun light.
- Always use the power cords supplied with the unit.
- Never remove a power supply module without first turning it off.
- Leave at least eight inches of space behind the enclosure for ventilation.
- Warning - if removing the internal rails, beware of sharp edges.
- Follow all instructions found in this manual.

Installation Requirements

Preparation

Before you begin to operate the DataPort™ 4U Rackmount Enclosure, please read this manual thoroughly to prevent data loss. Before touching any electrical equipment, ground yourself by touching the metal part of the computer chassis. This discharges any static electricity and prevents damage to the computer. CRU is not responsible for static discharge damages.

Power Supply Setup

The removable 300W redundant power supply system is located in the back of the enclosure. Figure 3 shows the location of the power supply. Before you plug the power cords in the unit, perform the following instructions carefully:

- Ensure that the power supply units are set for the correct voltage (115V or 230V) and that the power supplies are switched off. (The switch marked “O” should be depressed.)
- Plug in a power cord to each power supply then switch on both power supply units. The main power switch is located on the front of the enclosure.
- When switched ON, the front power LED illuminates.
- Both power supply LEDs on the front bezel will also illuminate.
- Each power supply also has a green power supply LED on the back of the enclosure that illuminates during normal operation.

DataPort™ Setup

To install a drive in a DataPort™ Carrier please refer to the DataPort™ Manual.

Other Devices

If you are installing a tape drive, an external RAID controller, or other devices in an open bay, you must attach the mounting rails to the device and then slide the device in from the front of the case.

Carefully install the device into the tracks in the case by applying minimal pressure to the left side to prevent the rails from slipping out of the tracks. After the rails are seated install the left rails by sliding them into the tracks of the enclosure. While lifting the device from the bottom, line up the installation holes and install the mounting screws provided. Attach the rail mounting screws to the front of the enclosure and tighten securely.

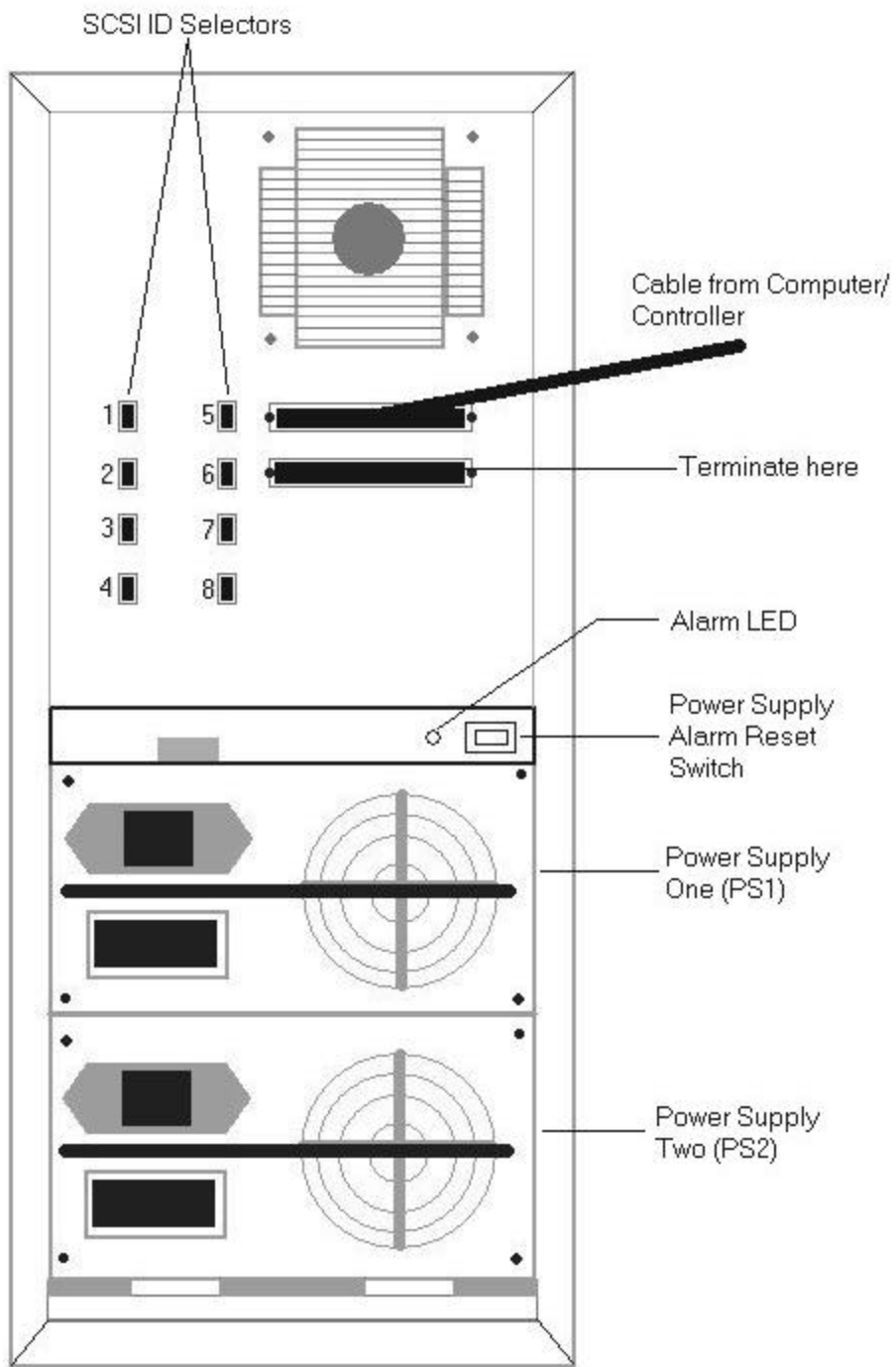


Figure 3 DataPort™ 4U Rackmount Enclosure, back view.

Cabling and Termination

Internal Controller

If you are using a controller that is in a computer/server, connect all the storage devices to the disk controller located inside the computer. Then use the provided terminator to terminate the SCSI bus.

External Controller

If you are using a RAID or disk controller inside the DataPort™ 4U Rackmount Enclosure, you will need to order cables that match your requirements. Ensure that none of the devices in the SCSI chain have a terminator, then use an external active terminator to connect to the end of the cable.

For more details see the manual provided by the controller manufacturer.

The DataPort™ SCSI ID Selector Switch

In addition to the SCSI ID selector switch built-in to the DataPort™ carrier, each DataPort™ 4U Rackmount Enclosure is also equipped with eight external SCSI ID selector switches. These allow you to externally set the SCSI ID number from the back of the enclosure. There are two buttons on each switch for increasing or decreasing the SCSI ID number. Each selector switch is connected to a SCSI device or CRU backplane via a BCD cable.

For best results make sure the selector on the DataPort™ is set to zero. Then use the selector on the back of the enclosure to select the desired ID.

The DataPort™ 3n2 SCSI ID Selector Switch

The DataPort™ 3n2 SCSI ID selector switches are located inside the DataPort™3n2 front door. Use the rotary dial to select the desired ID. See manual for additional details.

System Operation

Power Supply & Alarms

The DataPort™ 4U Rackmount Enclosure's redundant power supply allows you to remove a failed power supply without turning off the entire system. Should a power supply fail, an alarm will sound and the LED for the failed power supply will flash. You can turn off the alarm by pressing one of the reset buttons located on the front or back of the enclosure. **You must turn off the failed power supply module before removing it from the enclosure.** Contact CRU at 800-260-9800 for information on ordering a replacement power supply. Consult the power supply manual for more details.

The backplanes and the DataPort™ 3n2 also have built in fan alarms. Please consult their respective manuals for details.

DataPort™ and Other Device Operations

Before you begin using the system follow these steps:

- Be sure to turn each DataPort™ to the ON position and lock.
- Turn on the DataPort™ 4U Rackmount Enclosure before turning on the main computer.
- If you experience any problems, check all the cables and SCSI ID settings. If problems still exist, contact your dealer. If your dealer is unable to resolve the problem contact CRU Technical Support. Refer to "Technical Support" on page 8 for complete information on technical support and RMA department policies and contact information.

WARNING: —Important: Before removing the carrier, read the DataPort™ Manual.

Slide Rails for the DataPort™ 4U RackMount Enclosure

For assistance in finding slide rails please visit the CRU website for links to a list of vendors who will be able to provide the appropriate rails.

Figure 4 shows the dimensions for the slide rail hole locations.

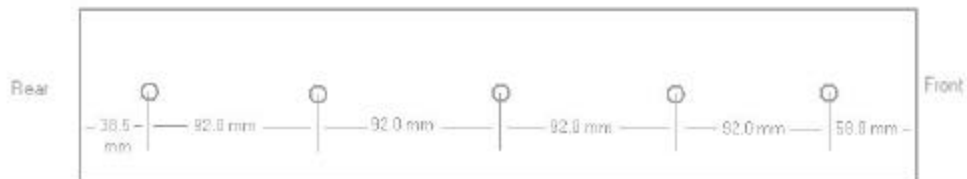


Figure 4 Slide rail hole locations, side view.

Technical Support:

Contact your dealer for technical support first. If you still need assistance, then contact the CRU technical support department. You can contact CRU's technical support department by visiting our web site at URL <http://www.cruinc.com> or sending an E-mail message to support@cruinc.com. Technical support is also available by phone at:

(800) 260-9800 during the hours of: 7:00 AM to 4:00 PM, PST
Monday through Friday, or by FAX (360)896-1017.

When you call, please have the following information ready:

The part number of your CRU DataPort(s)

The manufacturer's name and model number of the hard disk drive and computer system you are using

Any error messages that appeared on your screen

The name of the dealer from which you purchased your CRU product(s)

Limited Product Warranty:

Connector Resources Unlimited, Inc. (CRU) warrants the DataPort™ 4U Rackmount Enclosure to be free of significant defects in material and workmanship for a period of one (1) year from the original date of purchase. CRU's warranty is nontransferable and is limited to the original purchaser.

Please note: CRU's limited product warranty is not intended to allow customers to upgrade their CRU products to newer versions.

Material Return:

Any product being returned to CRU, either by a distributor, dealer or an end user, for repair or replacement must be accompanied by a Return Material Authorization (RMA) number, which must be obtained by contacting CRU's Customer Service Department at 800-260-9800. Please have these items available when requesting an RMA:

CRU Part Number(s), and your return "Ship To" Address.

IMPORTANT: Returned material must be properly packed to avoid in-transit damage. ***Damage to CRU products due to improper packaging will not be covered by this warranty.***

Product return packages must be labeled on the outside of the box as follows:

CRU, Inc.
RMA Dept./RMA #XXXX
900 SE Tech Center Drive, Suite 100
Vancouver, WA 98683

CRU will apply its warranty policy and issue RMA numbers based on a review of the specific circumstances of each request. CRU will, at its sole discretion, determine if a product is valid for return to CRU or if another remedy is applicable.

Product Remedies:

CRU's entire liability and the original purchaser's exclusive remedy for any breach of warranty, shall be, at CRU's option, either (a) return of the price paid or (b) repair or replacement of the hardware, provided that the hardware is returned to CRU, with a copy of the sales receipt or applicable documentation. Any replacement hardware will be warranted for the remainder of the original warranty period.

These remedies are void if failure of the hardware has resulted from accident, abuse, misapplication or modification. (This will be determined by CRU, Inc.)

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 noninfringement 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. Actual credit or refund for any item returned to CRU will only be applied once the item has been received by CRU and approved to adhere to CRU's Warranty and RMA policies. RMA product(s) sent to CRU must be received within 30 days of the original RMA issue date. All products on each RMA must be shipped together.