

DataPort 25 USB/SATA to Dual Drive SATA RAID

Package Contents

- 1 - DataPort 25 USB/SATA to Dual Drive SATA RAID Frame
- 1 - DataPort 25 Dual Drive SATA RAID Carrier
- 1 - Screw kit
- 1 - Power Adapter Cable
- 2 - Keys

RAID Configuration

The DataPort 25 USB/SATA to Dual Drive SATA RAID operates in four different configurations. The configuration is determined by the switch settings on either the back of the frame (see table 1) or the carrier board (see table 2). To change the configurations set the dip switches to the desired configuration, then cycle the power on the DataPort 25.

NOTE: When configuration is set on frame the carrier switches must be set to off and when the configuration is set on carrier the frame switches must be off and the jumper removed.

For ease of installation it is best to configure the drives to the appropriate RAID array before installing the frame in the enclosure.

NOTE: When changing configurations or setting up a new pair of drives, the power must be cycled on the DataPort 25.

NOTE: The Host Bus Adapter must support SATA port multipliers for the DataPort 25 USB/SATA to Dual Drive SATA RAID to use JBOD. Please check Silicon Image's website (<http://www.siliconimage.com>) for supported cards.

The four configurations are 1) Concatenated (two drives capacity together as a single drive - twice the size of the smallest drive), 2) JBOD, 3) RAID 0 and 4) RAID 1.

| | Position 1 | Position 2 |
|--------------|------------|------------|
| Concatenated | On | Off |
| JBOD | Off | Off |
| RAID 1 | Off | On |
| RAID 0 | On | On |

Table 1

NOTE: On the back of the frame board is jumper block J3. If the jumper is on J3 and the frame is configured as RAID 1, the RAID will rebuild every time the power is cycled. Remove the jumper to allow the RAID to power on without rebuilding.

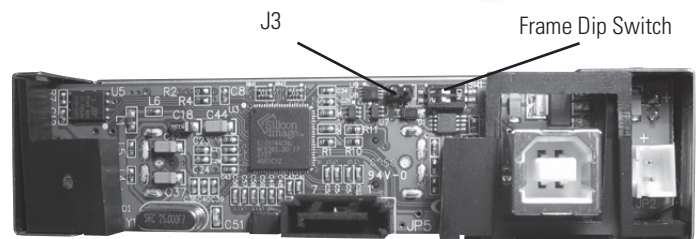
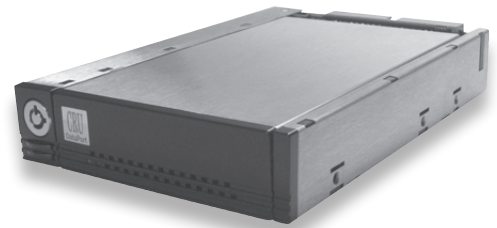


Figure 1: Back of frame

| | Position 1 | Position 2 | J3 |
|--------------|------------|------------|-----------------|
| Concatenated | On | Off | Off |
| JBOD | Off | Off | Off |
| RAID 1 | Off | On | *See note below |
| RAID 0 | On | On | Off |

Table 2

NOTE: If Position 3 is "On" the RAID will rebuild every time the power is cycled.

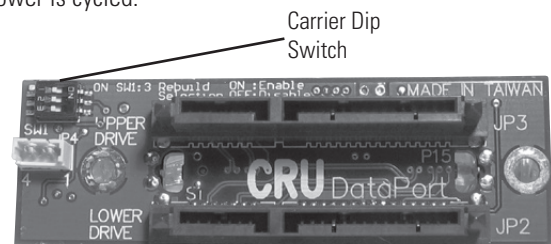


Figure 2: Carrier Drive Side

Frame Installation

1. Locate an available 3.5" drive bay and remove the front bezel.
2. To mount the frame assembly in the drive bay:
 - a. Check the drive bay to see if mounting rails are required (they should be provided by your computer system manufacturer.) If required, install one on each side of the frame. Then slide the frame in the computer and check that it is secure.
 - b. If mounting rails are not required, attach the frame directly to the PC case using the screws provided. Either the side or bottom mount holes on the frame may be used.



3. Locate and connect an available Legacy 4 pin power connector, the type used for optical drives, thru the supplied cable to the back of the DataPort 25 USB/SATA to Dual Drive SATA RAID frame (2-pin header JP2).
4. Connect an available SATA cable or USB cable to the rear of the frame and to your Host Bus Adapter.

Your frame installation is complete.

Installing a Hard Drive in Your DataPort 25 USB/SATA to Dual Drive SATA RAID Carrier

1. Remove the two screws that hold the cover and slide the cover off.

Note: Do NOT use screws longer than those supplied as the circuit board will be damaged.

2. Connect the hard drive(s) to their respective connector(s) on the circuit board. Use the provided screws to secure the hard drive.
3. Slide the cover back on to the carrier and secure it with the cover screws.
4. Once the carrier has been seated in the frame the key lock must be turned 90 degrees (horizontal) to engage the lock and enable the power.

Operation

NOTE: Please visit <http://www.cru-dataport.com/htmldocs/techSupport/downloads> (case sensitive) and download the latest version of DP25 RAID management software.

NOTE: The SATA interface will supersede the USB interface and provide the highest transfer rates.

LED Activity

For normal operation the green LED will remain on. In the event of a hard drive failure or improper installation of a drive the green LED will flash. If drive 0, the upper drive, fails the LED will flash on and off every 400ms. If drive 1, the lower drive, fails the LED will flicker and then remain on for 400ms.

Turn on the Power

The lock on the DataPort locks the carrier in place and also serves as the power "ON/OFF" switch. Turn the lock 90 degrees clockwise to the "ON" position before turning on the computer. When the computer is turned on, the "Power On" LED (green light emitting diode above the key on the frame assembly) is illuminated, and your system should operate normally.

Setting up the drive for Windows 2000/XP/Vista or Mac OS 9.x/X

No new drivers are required. The hard disk drive will be found and a window will pop up stating "new hardware has been detected".

For PCs:

- Right click on My Computer.
- Click on Manage.
- In the Storage sub-section, click on Disk Management to display a list of all the drives connected to your computer.
- Left click on Action, select All Tasks and then left click on Create Partition.

REMEMBER, partitioning the drive will require the drive to be formatted which will result in loss of all data on the hard drive.

- This will bring up the Create Partition Wizard screen.
- Follow the instructions and the drive will be ready for use.

For Macs:

You will be asked to initialize the drives. After initializing the drive, select the partition tab and select the desired partitions, then click ok. The new disk(s) will be added to your desktop.

REMEMBER, formatting will result in loss of all data on the hard drive(s).

Warning: The DataPort 25 RAID is a high density removable drive enclosure that maximizes data storage while offering the flexibility of RAID configurations for data management. The all metal construction of the DataPort 25 RAID acts as an excellent heat sink, however, during some RAID applications this dual drive configuration can generate significant levels of heat. To maximize hard drive life, ensure that the DataPort 25 RAID is mounted in a chassis which provides adequate air flow for cooling. For chassis with minimal air flow or for extreme environments CRU-DataPort recommends using extreme environment hard drives.

Limited Warranty

CRU-DataPort (CRU) warrants the DataPort 25 USB/SATA to Dual Drive SATA RAID to be free of significant defects in material and workmanship for a period of one year from the original date of purchase. CRU's warranty is nontransferable and is limited to the original purchaser.

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