FCC Warning Statement

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 in a residential installation. This equipment generates, uses and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try and correct the interference by one or more of the following suggestions.

- Reorient or relocate the receiving antenna
- Increase the distance between the equipment and the receiver
- Connect the equipment to a different power outlet other than the one where receiver is connected
- Consult a certified television or radio technician

Latch: Secures hard drive in the enclosure.
Power LED: Solid blue when a hard drive is present on the drive drawer.
HDD Access LED: Blinks while in activity.

View of the Front Panel of the Drive Drawer

To open the drive drawer, you need to push the blue latch towards the left (indicated by the arrow). This will disengage the locking mechanism. Then pull out the drive drawer.

Note: There is no individual power switch for the hard drives.
SATA Hard Drive Installation
1. Loosen the screw on the top of the drive drawer.
2. Detach the top metal bracket from the drive drawer.
3. There are four screw holes at the bottom of each drawer. Use the screws provided to secure the 2.5” SATA or SAS drive to the drawer.

Model: Z4RCS25PM
Zebra Disk Array with integrated regular Port Multiplier - Work with PM compatible controller only. The 4 drives in the Disk Array can be set up as RAID 0, 1, 5, 10, JBOD when connected to a PM compatible RAID controller or as individual drives via USB port.

Note: No drivers are necessary for the Port Multiplier. You should have configured the SATA host controller by installing its driver and utility before connecting the port multiplier.

The Port Multiplier (PM) only works with SATA controller that supports PM or FIS-based switching. Check with your system supplier to confirm the PM support on your existing SATA port.

In RAID BIOS of the SATA host controller, only one hard drive is detected on the port multiplier even if all five hard drives are connected to the Port Multiplier. The hard drive that is detected is the one connected to Port 1.

For SATA host controllers using SiI3124 or SiI3132 chip with RAID BIOS, it is in the SATARAIDS Array Manager under Windows that all the connected drives will show up.

For SATA host controllers using SiI3124 or SiI3132 chip with BASE BIOS, the drives show up in Disk Management.
Model: Z4RCS25HPM

Zebra Disk Array with integrated Hardware Port Multiplier -
The 4 drives in the Disk Array can be set up as RAID 0, 1, 10, Bigdrive, or as individual drive via a PM compatible controller or USB port. Once configured as a single RAID volume, the unit can be connected to any eSATA port or USB port. USB port connection requires optional eSATA - USB connector.

Note: You need to install the SiI4726 Manager on your system to configure RAID sets. Another requirement is a SATA drive needs to be connected to port 1 of the hardware port multiplier.

RAID array is configured by connecting the hardware port multiplier:
- to one of Addonics’ SATA controllers that has SiI3124 or SiI3132 chip set.
- via USB 2.0 connection (optional Addonics eSATA-USB adapter is required)

After RAID configuration, it is compatible with any SATA controller (RAID or non RAID)

Software Installation for SiI4726 Manager
A. From the CD start-up menu select SATA RAID Utilities > Other SATARAID Utilities > Windows 2000/XP/2003/Vista.
B. Unzip the file SiI_4726_Manager_V4.0.0.9.zip on your drive. The folder name would be SiI4726.
C. To install SiI4726 Manager, double click setup.exe

In SiI4726 Manager, all the drives connected to the Zebra model will show up.

For a complete User’s Guide of SiI4726 refer to our website.
Support > User Guides > SiI4726 Manager User Manual V.26

Model: Z4RCS25NML

Zebra Disk Array with integrated Multilane connector
The 4 drives in the Disk Array can be set up as RAID 0, 1, 5, 10, JBOD when connected to a Multilane RAID controller.

Note: No drivers are necessary for the Multilane bridge. You should have configured the Multilane SATA host controller by installing its driver and utility before connecting the disk array.
**Zebra Disk Array with integrated 4x1 eSATA/USB Hardware Port Multiplier**

The 4 drives in the Disk Array can be set up as RAID 0 (2 & 4 drive modes), RAID 1, RAID 10, SPAN (2 & 4 drive modes), RAID 3+S RAID 5+S using built-in DIP switch. Once configured, the unit can be connected to any eSATA port or USB port.

**LED Status**

- **Drive Activity LED**: Always ON. The LED blinks when there is drive activity.
- **PM Health**: Always OFF when RAID volume is working correctly. The LED starts blinking when the RAID volume is degraded.
- **PM Power**: Always ON when power is provided to the HPM.
- **USB Status**: ON when USB port is connected.
- **eSATA Status**: ON when eSATA port is connected.

**RAID Modes:**

- **BIG 2 - 2 Drives Spanned**
  - **Note**: Do not connect more than 2 SATA drives to the hardware port multiplier. Doing so will hang the system when you configure the raid.
  - For SATA drives with different capacities, the hardware port multiplier will use the smallest drive capacity of the 2 drives connected to create the total partition size.

- **BIG 4 - 4 Drives Spanned**
  - **Note**: If you will be connecting SATA drives with different capacities, the hardware port multiplier will use the smallest drive capacity of the 4 drives connected to create the total partition size.

- **FAST 2 - 2 Drives Striped**
  - **Note**: Do not connect more than 2 SATA drives to the hardware port multiplier. Doing so will hang the system when you configure the raid.

- **FAST 4 - 4 Drives Striped**

- **SAFE FAST - Striped set of Mirrored Drives**

- **SAFE 2 - 2 Drives Mirrored**

- **RAID 5 - 4 Drive Striped set with dedicated parity**

- **RAID 5 + S - Drive Striped set with distributed parity plus Hot Spare**

**Setting RAID on the HPM**

1. Secure the 2.5” SATA drive to the drive drawers using screws.
2. Slide in the drive drawers to the 4SA disk array drive bays.
3. Ensure that the enclosure is turned off.
4. Set the Rotary switch to the RAID mode required.
5. Push the RAID setting button with a ballpoint pen tip while the HPM is turned off.

**LED Pin Assignment**

- eSATA Status
- USB Status
- PM Power
- PM Health
- HD 3 PWR & ACCESS
- HD 2 PWR & ACCESS
- HD 1 PWR & ACCESS
- HD 0 PWR & ACCESS

Use a ballpoint pen tip to press the RAID Setting Button.
6. While holding the RAID setting button, turn on the HPM and SATA hard drives and continue to hold button for at least 5 seconds.

   Note: The onboard LED’s for the eSATA and USB will start blinking while holding down the raid setting button. Once the raid setting button is released, the PM Health LED will blink 4-6 times.

   If the PM Health LED stops blinking, the raid set is set correctly. If the PM Health LED lights up as solid green, it is a bad setup. You need to repeat setting up the raid again.

The following are steps for troubleshooting the RAID setting in case it is not working correctly.

Verify RAID Setting on the HPM (Optional)

   Note: Use the embedded LED's located on the HPM board as reference
5 – PM Health
7 – USB Status
8 – eSATA Status

   Note: Disconnect the HPM from host when verifying the RAID setting.

   It is assumed that you have already connected the SATA drives and set up the raid mode when verifying the raid setting.

1. Loosen the 2 screws located at the back of the enclosure. Separate the enclosure tray from the housing to access the 3 LED cables connected to the LED pins on the hardware port multiplier.
2. Turn on the power of the enclosure.
3. Push the RAID setting button with the tip of a ball point pen.

   4. Hold down the RAID setting button with the tip of a ball point pen. Using the table below, verify if the LEDs are lighting up. The selected LEDs will light up.

<table>
<thead>
<tr>
<th>RAID Mode</th>
<th>LEDs</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIG 2</td>
<td>LEDs 5, 7 &amp; 8 all OFF</td>
</tr>
<tr>
<td>BIG 4</td>
<td>5 ON, 7 &amp; 8 OFF</td>
</tr>
<tr>
<td>FAST 2</td>
<td>7 ON, 5 &amp; 8 OFF</td>
</tr>
<tr>
<td>FAST 4</td>
<td>8 ON, 5 &amp; 7 OFF</td>
</tr>
<tr>
<td>SAFE FAST</td>
<td>5 &amp; 7 ON, 8 OFF</td>
</tr>
<tr>
<td>SAFE 2</td>
<td>5 &amp; 8 ON, 7 OFF</td>
</tr>
<tr>
<td>RAID 5</td>
<td>7 &amp; 8 ON, 5 OFF</td>
</tr>
<tr>
<td>RAID 5 + S</td>
<td>5, 7 &amp; 8 all ON</td>
</tr>
</tbody>
</table>

Technical Support

FREE Software Drivers for all Addonics Technologies
Products are available 24 hours per day at the
World Wide Web Site: www.addonics.com

Contact Information
Phone: 408-573-8580
Fax: 408-573-8588
Email: http://www.addonics.com/sales/query/
Internet: http://www.addonics.com

TECHNICAL SUPPORT
Phone: 408-453-6212
Hours: 8:30 am - 6:00 pm PST
Email: http://www.addonics.com/support/query/