Dual mSATA SSD to 2.5in SATA SSD Converter with RAID

25SAT22MSAT

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FCC Compliance 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 and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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Back View

1. DATA & Power Combo (7+15 pin)
2. RAID setting jumper pins
3. Side mounting holes

Introduction

Packaging Contents
• 1 x Dual mSATA to 2.5in SATA Adapter
• 1 x Mounting screw kit
• 1 x Installation Manual

System Requirements
• 2 x mSATA Drives
• SATA Host Device
mSATA SSD Installation

**WARNING!** SSD Drives and storage adapters require careful handling. If you are not careful with your SSD Drive, lost data may result. Always handle your drive with caution. Be sure that you are properly grounded by wearing an anti-static strap when handling computer components or discharge yourself of any static electricity build-up by touching a large grounded metal surface (such as the computer case) for several seconds.

1. Slide the mSATA connector on one of your SSDs into the Drive #1 mSATA receptical connector on the 25SAT22MSAT.

2. Press the drive down toward the Drive #1 mounting bracket, until the drive clicks into place.
3. Slide the mSATA connector on your other SSD into the Drive #2 mSATA receptacle connector on the 25SAT22MSAT.

4. Press the drive down toward the Drive #2 mounting bracket, until the drive clicks into place.

5. The SSDs have now been installed.

Note: To remove drives #1 and #2, pull upward on two the tabs located on the top of either drive, then slide the drives out one at a time.
Configure RAID

**WARNING!** Setting or changing your RAID modes will erase the data or metadata on your existing SSD drives.

**RAID Lock/Unlock Jumper Pins**

The RAID lock/unlock jumper pins, located above the drive mounting brackets enable you to lock your RAID configuration so it cannot be changed. Or unlock your configuration so it can be changed.

![Jumper Pins Diagram]

Use the included jumper and the table below, to short the pins and set the mode for your desired configuration.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
<th>Jumper Pins</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unlocked</td>
<td>Enables you to change your RAID configuration mode.</td>
<td>SET-GND</td>
</tr>
<tr>
<td>Locked</td>
<td>Does not allow you to change your RAID configuration mode.</td>
<td>N.C-SET</td>
</tr>
</tbody>
</table>
RAID Mode Setting Jumper Pins

The RAID setting jumper pins, located next to the SATA connector enable you to set your desired RAID configuration between RAID 0, RAID 1, JBOD, and RAID initial Mode.

RAID Setting Jumper Pins

Use the included jumpers and the table below, to short the pins and set your desired RAID mode.

<table>
<thead>
<tr>
<th>RAID Mode</th>
<th>Description</th>
<th>Short Pins</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAID 0</td>
<td>Striping - Improves system performance</td>
<td>1-2, 4-5</td>
</tr>
<tr>
<td>RAID 1</td>
<td>Mirror – Creates a redundant drive on the second drive for security</td>
<td>2-3, 4-5</td>
</tr>
<tr>
<td>BIG</td>
<td>Spanning – Creates a large single drive volume consisting of both drives.</td>
<td>1-2, 5-6</td>
</tr>
<tr>
<td>JBOD</td>
<td>Just a Bunch of Disks – Allows access to both drives individually (Note: A port multiplier compatible SATA controller is required for this mode)</td>
<td>2-3, 5-6</td>
</tr>
</tbody>
</table>

Set RAID Configuration

**Note:** Your RAID configuration must be set to JBOD before the device can be reconfigured to RAID 0, RAID 1, or BIG. If you have set a different RAID configuration and now wish to reconfigure your RAID, please set the device back to JBOD before changing the configuration again.

1. Set the RAID Lock/Unlock Jumper Pins to the unlock position.
2. Using the RAID Mode setting jumper pins to your desired Mode.

3. Connect the SSD RAID card to your SATA host device. **Note:** Refer to the manual for your SATA host device for installation instructions. The top or side mounting holes and included screw kit may, or may not be required to assist in your installation.

4. Power on the SATA host device.

5. Your RAID array has now been installed.

6. **(Optional)** If you would prefer to lock your RAID array so it cannot be altered by the RAID mode setting jumper pins, power down your SATA host device, and set the RAID Lock/Unlock Jumper Pins to the lock position.

**Hard Drive Initialization**

If the mSATA SSD RAID Array is new or otherwise blank, it may need to be initialized and formatted before use. Follow the steps below in a Windows interface to initialize the drive.

1. From the main Windows desktop, right-click on “My Computer” (“Computer” in Vista/7/8), then select Manage. In the new Computer Management window, select Disk Management from the left window panel.

![Computer Management window with Disk Management highlighted]

2. A dialog window should automatically appear, asking you to initialize the drive. Depending on the version of Windows, it will give you the option of either creating an “MBR” or “GPT” disk. GPT (GUID partition) is not compatible with some older operating systems, while MBR is supported by newer and older operating systems.

3. Once initialized, locate the Disk that says it is “Unallocated” (check the listed hard drive capacity to confirm it’s the correct hard drive) and then right-click in the section that says “Unallocated” and select “New Partition”.

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Instruction Manual

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LED Activity and Drive Failure Indicators
The 25SAT225MSAT includes an LED panel to visually monitor activity and failure of each drive. Please review the table below for a list of each specific indication.

<table>
<thead>
<tr>
<th>Description</th>
<th>Activity LED</th>
<th>Drive Failure LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device Unplugged</td>
<td>Off</td>
<td>Off</td>
</tr>
<tr>
<td>Device Plugged in</td>
<td>On</td>
<td>Off</td>
</tr>
<tr>
<td>Device Accessing</td>
<td>Flashing On</td>
<td>Off</td>
</tr>
<tr>
<td>Device Failed</td>
<td>Off</td>
<td>On</td>
</tr>
</tbody>
</table>

4. Follow the on screen prompts to initialize the drive in the format of your choice.
Technical Support
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Warranty Information
This product is backed by a two year warranty.
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