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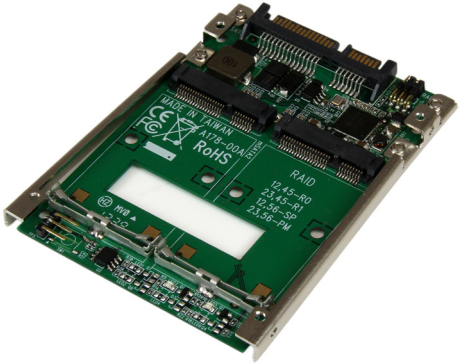
Dual mSATA SSD to 2.5in SATA SSD Converter with RAID

25SAT22MSAT



*actual product may vary from photos

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Manual Revision: 01/29/2018

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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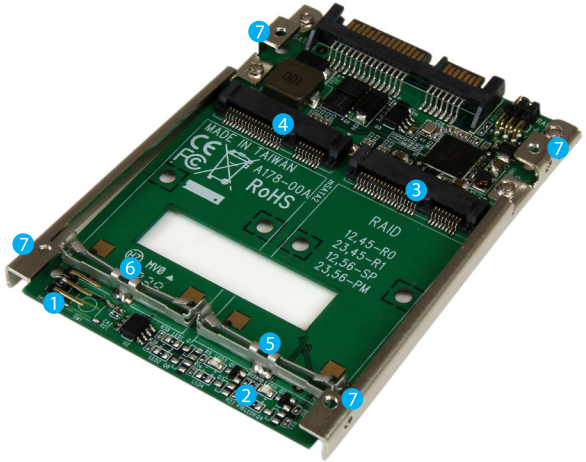
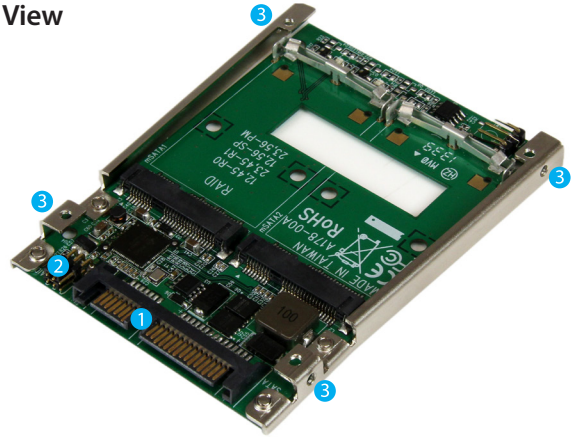
Product Diagram

Front View



1. RAID lock/unlock jumper pins
2. Drive Activity/Fail LEDs
3. Drive #1 mSATA connector
4. Drive #2 mSATA connector
5. Drive #1 mounting bracket
6. Drive #2 mounting bracket
7. Top mounting holes

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 receprical 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 receprical 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.

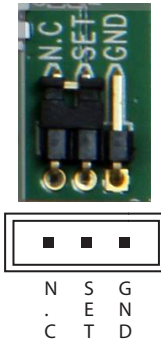
Note: To remove drives #1 and #2, pull upward on two the tabs located on the top of either drive, then slide the drives out one at a time.

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.



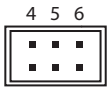
Use the included jumper and the table below, to short the pins and set the mode for your desired configuration.

Mode	Description	Jumper Pins
Unlocked	Enables you to change your RAID configuration mode.	SET-GND
Locked	Does not allow you to change your RAID configuration mode.	N.C-SET

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



SATA Connector

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

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

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.

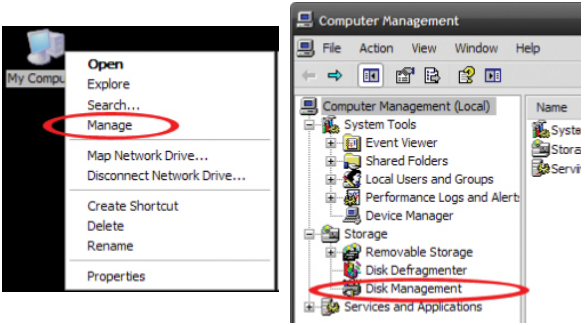
1. Set the RAID Lock/Unlock Jumper Pins to the unlock position.

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.

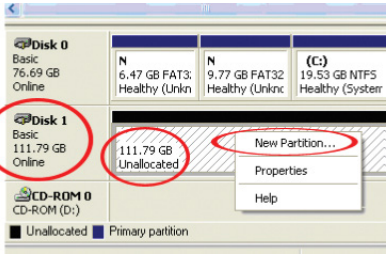
Hard Drive Initialization

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.



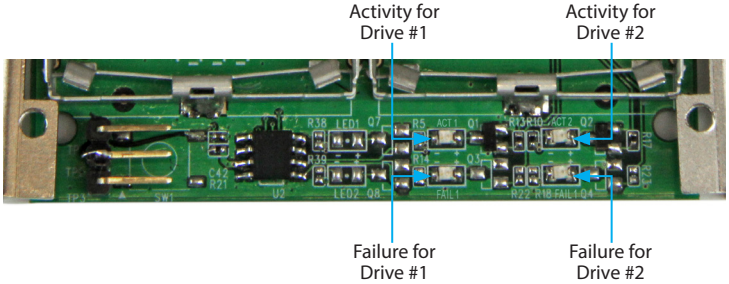
2. A dialog window should automatically appear, asking you to initialize the drive. Depending on the version of Windows, it will give you the option of either creating an "MBR" or "GPT" disk. GPT (GUID partition) is not compatible with some older operating systems, while MBR is supported by newer and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



4. Follow the on screen prompts to initialize the drive in the format of your choice.

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.



Description	Activity LED	Drive Failure LED
Device Unplugged	Off	Off
Device Plugged in	On	Off
Device Accessing	Flashing On	Off
Device Failed	Off	On

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Warranty Information

This product is backed by a two year warranty.

In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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