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Removable 2.5" SATA HDD Backup System

SAT2510U3REM
SAT2510U3S

*actual product may vary from photos

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Manual Revision: 11/06/2012

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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Introduction

The SAT2510U3REM/SAT2510U3S Removable 2.5" SATA HDD Backup System/Mobile Rack for 3.5"/5.25" Front Bay turns a 2.5" SATA HDD/SSD drive into a removable hard drive that can also be used externally as a normal USB 3.0 enclosure. The 2.5" SATA removable hard drive bay can be mounted into any computer's 3.5" or 5.25" front bay to provide a hot-swap capable mobile rack. Drives can be easily installed and removed from the computer system without having to open the computer case every time. This can be used to create backups that can then be removed for safe keeping/archiving. When outside of the drive bay, the enclosure can be used as a standard external USB 3.0 hard drive with up to 5 Gbps of data transfer bandwidth (10x more than USB 2.0). This makes the removable 2.5" hard drive bay an excellent accessory for people working with very large files and need to take them on the road. Backed by a StarTech.com 2-year warranty and free lifetime technical support.

Packaging Contents

SAT2510U3REM

- 1x 2.5" SATA enclosure
- 1x 3.5" Front Panel Drive Bay
- 1x 3.5" to 5.25" Front Bay Adapter Bracket
- 1x 15-pin SATA power to 4-pin SP4 small floppy power Adapter Cable
- 1x 4-pin LP4 Molex power to 4-pin SP4 small floppy power Adapter Cable
- 1x SATA Cable
- 1x USB 3.0 A to Micro-B Cable
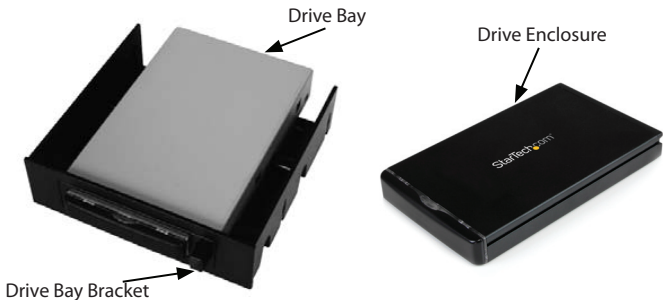- 1x Screw Kit
- 1x Instruction Manual

SAT2510U3S

- 1x 2.5" SATA Enclosure for SAT2510U3REM
- 1x USB 3.0 A to Micro-B Cable
- 1x Screw Kit

System Requirements

- Computer chassis with available 5.25" or 3.5" front bay
- Available internal SATA port on motherboard or SATA controller card
- Available SP4 Floppy or LP4 Molex or SATA power connector from power supply
- External Use: Available USB port (USB 3.0 recommended)

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Installation

Drive Bay

Drive Enclosure

Drive Bay Bracket

WARNING: Hard drives require careful handling, especially when being transported. If you are not careful with your hard disk, lost data may result. Always handle your hard drive and storage device with caution.

WARNING: Hard drives, like all computer equipment can also be severely damaged by static electricity. Be sure that you are properly grounded before opening your computer case or touching any components. StarTech.com recommends that you wear an anti-static strap when installing any computer equipment. If an antistatic strap is unavailable, discharge yourself of any static electricity build-up by touching a large grounded metal surface (such as the computer case) for several seconds.

WARNING: Do not disconnect any cables or power sources while the hard drive is active. This can result in data loss and possible damage to the hard drive.

Installing a Hard Drive into SAT2510U3S

Remove the two screws from the rear panel of the Drive Enclosure and remove the rear panel cover.

1. Pull out the circuit board from the drive enclosure housing.
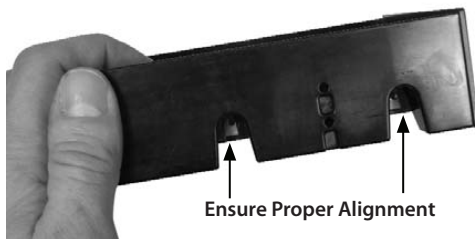
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2. Attach the 2.5" SATA hard drive to the circuit board, and fasten it to the board from the bottom using the provided mounting screws.

3. Once the hard drive has been secured to the circuit board, carefully slide the circuit board (with hard drive attached) into the drive enclosure housing.

4. Replace the rear panel cover and fasten the rear panel to the enclosure, using the screws that were removed in step #1.

Installing the Drive Bay into the Computer

1. If mounting the Drive Bay into a 3.5" bay, please skip to Step 3. Insert the Drive Bay into the 5.25" bracket provided, ensuring that the holes located on the sides of the drive bay are aligned with the holes in the sides of the bracket.

Ensure Proper Alignment

2. Fasten the Drive Bay to the Bracket, using the screws provided. To ensure proper attachment to the Bracket, secure the Drive Bay to the Bracket both on the sides and on the bottom of the Bracket.

3. Turn your computer off and any peripherals connected to the computer (i.e. Printers, external hard drives, etc.). Unplug the power cable from the rear of the power supply on the back of the computer and disconnect all peripheral devices.

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4. Remove the side cover(s) from the computer case and the cover to the front bay you wish to mount the Drive Bay into (see documentation for your computer system for details).

5. Insert the Drive Bay into the front bay slot as appropriate (see documentation for your computer system for details). Please ensure proper alignment of mounting holes in the Drive Bay/Bracket with the mounting holes for the computer chassis.

6. If necessary, secure the Drive Bay to the drive bay slot, using the screws provided, otherwise secure the Drive Bay to the computer chassis using the method appropriate for your particular chassis.

7. Connect an available 4-pin SP4 small floppy power connector to the rear panel of the Drive Bay. If an SP4 is not available, use the included adapters to connect either an LP4 Molex or SATA power connector to the rear panel of the Drive Bay.

8. Connect a 7-pin SATA data cable (provided) from the SATA port located on the rear panel of the Drive Bay to a SATA port provided by the computer motherboard or SATA controller card.

9. Replace the side panel(s) of the computer casing and insert the power cable into the socket on the power supply and reconnect all other connectors removed in Step 3.

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Connecting the Removable Drive Enclosure – Internal

1. Power down the host computer.

2. Insert the Drive Enclosure into the Drive Bay. The Eject button will pop out, indicating that the Drive Enclosure is fully inserted.

3. Power up to the computer. Once the operating system is fully loaded it should detect the presence of the SATA drive.

4. The SATA drive is now ready for use and will be available in My Computer (if already formatted), or through the Disk Management utility (see "Using the Storage Device" for more details).

NOTE: Inserting or removing the Drive Enclosure while the computer is running will be dependent on the capabilities of the SATA controller the Drive Bay is connected to. The SATA controller must support hot-swapping, otherwise the computer will need to be powered off before inserting/removing the drive enclosure. Improper usage may result in data loss or damage to the drive.
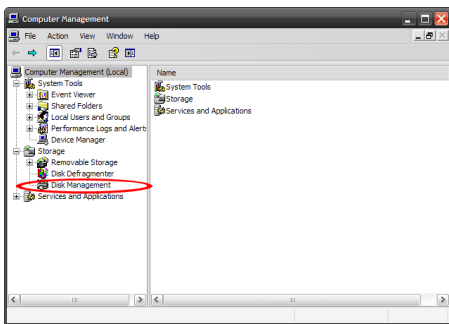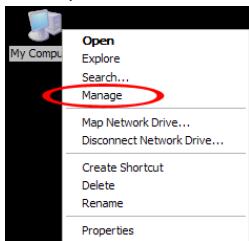
Using SAT2510U3S Externally

Use the provided USB A to B cable to connect the SAT2510U3S to a USB 3.0 host port.

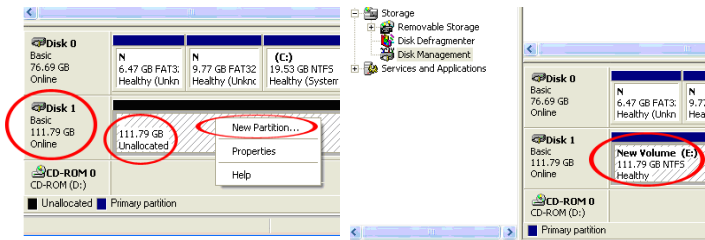# Using the Storage Device

Windows XP/Vista/7/8

If you are using brand new hard drives that do not contain any data, then you will first need to prepare the hard drive for use before you can write data to it. From the main desktop, right-click on "My Computer" ("Computer" in Vista/7), then select Manage. In the new Computer Management window, select Disk Management from the left window panel.

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Locate the Disk that says it is "Unallocated" (check 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".

The New Partition Wizard will appear. Follow the instructions in the wizard to complete setting up the drive. Once complete, the Disk should show up as "Healthy" with a drive letter assigned (i.e. E:). This drive letter should now appear within My Computer.

If you are installing a hard drive that already has data on it, then after plugging it in, the drive should automatically show up with a drive letter assigned within My Computer.

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Specifications

Number of Hard Drives Supported	1 x 2.5"
Host Interface	SATA revision 3.x SuperSpeed USB 3.0
Chipset ID	ASMedia ASM1053 ASMedia ASM1456
External Connectors	**Drive Bay:** 1 x 7-pin SATA port 1 x 4-pin SP4 small Floppy male **Enclosure:** 1 x USB 3.0 micro-B female 1 x 7+15 pin SATA data+power port
LEDs	1 x Power/Activity
Compatible Hard Drives	2.5" SATA drives, up to 9.5mm in height
Maximum Data Bandwidth	SATA III: 6 Gbps USB 3.0: 5 Gbps
Enclosure Material	Aluminum and Plastic (UL 94V-0)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20°C ~ 70°C (-4°F ~ 158°F)
Humidity	5% ~ 95% RH
Dimensions	**5.25" Bay:** 164.85mm x 145.8mm x 42.0mm **3.5" Bay:** 155.0mm x 103.0mm x 26.0mm **2.5" Enclosure:** 133.0mm x 80.0mm x 17.0mm
Weight	**Total:** 410g
Compatible Operating Systems	Windows XP/ Server 2003/ Server 2008 R2/ Vista/ 7/ 8 (32/64-bit), Mac OS 10.8, Linux

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Technical Support

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For the latest drivers/software, please visit **www.startech.com/downloads**

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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