

# SATA BACKPLANE

Serial ATA Backplane

SATABAY3  
SATABAY3BK  
SATABAY4  
SATABAY4BK

Instruction Guide



\* SATABAY3 shown

\* Actual product may vary from photo

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## Introduction

Thank you for purchasing a StarTech.com Serial ATA backplane. The perfect solution for building hot-swappable Serial ATA RAID arrays, these backplanes can support up to three (SATABAY3, SATABAY3BK) or four (SATABAY4, SATABAY4BK) Serial ATA 150 3.5" inch drives, each in their own independent removable drive drawer. An 8 cm rear fan ensures plenty of air movement over the drives to maintain ideal operating temperatures.

## Features

- Compliant with Serial ATA Specification 1.0
- Equipped with an 8cm rear mounted ball-bearing fan to ensure all your hard drives remain cool
- Supports RAID applications (0, 1, 5)
- Provides an audible buzzer alarm when overheating occurs
- Uses an easy push-button mechanism for opening hard drive trays
- LEDs continuously monitor hard drive and fan activity
- Supports Serial ATA 150 hard drives with data transfer rates of up to 150 MBytes/sec
- Uses thin, flexible Serial ATA cables for easier internal connections and improved airflow

## Package Contents

- 1 x Serial ATA backplane
- 7-pin Serial ATA signal cables

## Installation

1. Remove one of the drive trays by pressing on the left side of the drive tray. This will cause the tray's arm to swing out. Hold the arm and pull the tray out.
2. Place the hard drive into the tray. Line up the holes in the bottom of the tray with the holes in the bottom of your drive. Use screws to secure the hard drive to the tray.
3. Slide the tray back into the slot. When the tray is all the way back into the slot, press the arm back in until you hear a "click" sound. This indicates that the tray and hard drive are properly installed.
4. Repeat these steps for the other hard drives.
5. If desired, install the backplane into open 5.25" drive bays on your system.
5. Use the 7-pin Serial ATA signal cables to connect the hard drive ("HD") ports on the back of the backplane to your Serial ATA controller.
6. To power the backplane, use either Serial ATA or LP4 connectors from your power supply. If you use LP4 connectors, the power will automatically be converted to Serial ATA power.

## Using Your Backplane

- **Reset:** The Reset button/LED on the front of the backplane serves as both a reset switch and an overheating LED. When overheating occurs, a buzzer will sound and the Reset LED will flash. To stop the alarm, press the Reset button.
- **HD1, HD2, etc:** The HD buttons/LEDs on the front of the backplane serve as both the power switches and power LEDs for each drive. To turn power to the drive on or off, push the corresponding HD button (Do not turn off power when the drive is in use!). When the drive is powered, the corresponding LED will be lit.

**Note:** The default temperature at which the alarm will sound is 60°C (140°F). Using jumpers on the back of the backplane, you can also set the temperature to 55°C (131°F) or 65°C (149°F).

- **Fan Sensor:** The fan sensor LED on the front of the backplane indicates the activity of the backplane's fan. If the fan sensor LED is lit green, the fan is working properly. If the fan fails, the fan sensor LED will be lit red.

## Technical Specifications

|                  | SATABAY3<br>SATABAY3BK                               | SATABAY4<br>SATABAY4BK                               |
|------------------|--|--|
| HD Compatibility | 3.5" Serial ATA 150                                  |  |
| HD Supported     | 3  | 4  |
| Connectors       | 3 x 7-pin SATA<br>2 x 15-pin SATA<br>2 x 4-pin LP4   | 4 x 7-pin SATA<br>2 x 15-pin SATA<br>2 x 4-pin LP4   |
| Drive Connection | Cable-less connection                                |  |
| Material         | Aluminum and plastic                                 |  |
| Fan              | 8cm ball bearing                                     |  |
| LEDs             | 3 x Hard drive activity<br>1 x Reset, 1 x Fan status | 4 x Hard drive activity<br>1 x Reset, 1 x Fan status |
| Alarm            | Over-heating alarm                                   |  |
| Dimension        | 5.75 x 7.95 x 3.39"<br>(146 x 202 x 86 mm)           | 5.75 x 7.95 x 4.96"<br>(146 x 202 x 126 mm)          |
| Weight           | 2.86 lbs (1.3 Kgs)                                   | 3.52 lbs (1.6 Kgs)                                   |

## Technical Support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit [www.startech.com/support](http://www.startech.com/support) and access our comprehensive selection of online tools, documentation, and downloads.

## Warranty Information

**This product is backed by a one-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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