SUPER ★ TALENT™

SSD User Manual

Solid State Drive

Reinventing Storage...

Rugged
Low Power
Silent

Table of Contents

1. Product Overview

(1.1) – Product Definition

A Solid State Drive (SSD) is a storage device that is based on semiconductors rather than rotating magnetic platters. Super Talent uses Flash memory as the storage media because they are fast, highly reliable, widely available, and are non-volatile. SSDs are a drop-in replacement with standard hard disk drives since they use both industry standard dimensions and a standard hard drive interface.

(1.2) – Interface Description

1.2.1 SATA Interface
All Super Talent's SATA SSDs are compatible with the SATA 1.5 Gb/s standard, allowing for drop-in drive replacement.

Super Talent's SATA 3.0 SSDs are compatible with the SATA 3.0 Gb/s standard in addition to the SATA 1.5 Gb/s standard, allowing for drop-in drive replacement.

1.2.2 IDE Interface
44-pin IDE (parallel ATA) interface can also support PIO mode and UDMA mode; this allows for drop-in drive replacement.

(1.3) – SSD Diagram

1.3.1 SATA Diagram

Figure 1 shows the internal components and its connections in an SSD. The three main components that make up an SATA SSD are the following:

- NAND Flash
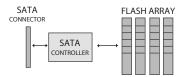- SATA controller
- SATA connector

Figure 1: Block Diagram of SATA SSD

1.3.2 IDE Diagram

Figure 2 shows the internal components and its connections in an SSD. The three main components that make up an IDE SSD are the following

- NAND Flash
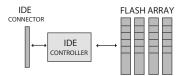- IDE controller
- IDE connector

Figure 1: Block Diagram of IDE SSD

2. Before Getting Started

(2.1) Back Up Your Data

Back up your existing drive before installing the SSD

(2.2) Visual Inspection

Before unpacking and handling the SSD, discharge the static electricity by touching the metal chassis of your computer or by using an anti-static wrist strap.

Save the original shipping box and the anistatic bag in case you need to return the SSD. Before installation, inspect the box and device for the following:

- Shrink wrap of the box is broken
- Box is damaged or water-stained
- Any physical damage to the SSD

3. Install the SSD

(3.1) SSD Configuration
The SSD can be installed in any mounting position in your computer.

(3.2) Install the SSD
1. Power down the PC
2. Remove the computer system outside cover
3. Connect a cable between the SSD and the host
4. Replace the PC cover
5. Power on the PC
6. A BIOS sign-on message appears and displays a key sequence to enter the BIOS setup. Set up the BIOS to recognize the SSD.
7. Installation is complete

(4.1) Handling the SSD

Be cautious when unpacking, installing, and handling the SSD drive. Misuse of the SSD voids all warranty. Follow these instructions when managing the SSD.

- Follow all ESD precautions
- Always operate the SSD within environmental conditions
- Never switch DC power to the drive by plugging an electrically live source cable into the drive's power connector
- Ensure correct cable polarity whenever connecting the drive to the cable

WARNING: If the warranty void label is broken, the warranty voids immediately

(4.2) Using the SSD in a Windows OS

No modifications need to be made to use the SSD in a Windows OS platform.

(4.3) Using the SSD in a Linux OS

No modifications need to be made to use the SSD in a Linux OS platform.

(4.4) Using the SSD in Other OS

No modifications need to be made to use the SSD in other OS platforms.

*Note: Please contact technical support if you have any questions about other O/S platforms.

5. Support and Contact Information

(5.1) Technical Support

If additional support is needed, please visit our Web site for the following topics.

- Warranty: If the warranty void label is broken, the warranty voids immediately.
- Datasheets: For additional technical information on all SSDs
- SSD FAQs: A "Q&A" section for information regarding the SSD
- SSD Awards & Benchmarks: Keep up to date on all the awards and reviews for Super Talent's SSD
- Technical Resources: Learn more about SSDs with various whitepapers
- Contact Support: support@supertalent.com

(5.2) Contact Information

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