

CoreParts CP-SSD-3.5-TLC-1000

CoreParts 1TB 3.5-inch SATA III TLC SSD Instruction Manual

Model: CP-SSD-3.5-TLC-1000

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your CoreParts 1TB 3.5-inch SATA III TLC Solid State Drive (SSD), model CP-SSD-3.5-TLC-1000. Please read this manual carefully before using the product to ensure optimal performance and longevity.

SETUP AND INSTALLATION

The CoreParts 1TB SSD is designed for internal use in desktop computers. Follow these steps for proper installation:

1. **Prepare Your System:** Power off your computer and disconnect all cables. Open the computer case.
2. **Locate a Drive Bay:** Identify an available 3.5-inch drive bay. If your system only has 2.5-inch bays, you will need a 2.5-inch to 3.5-inch adapter bracket (often included with the SSD or sold separately).

3. **Mount the SSD:**

Secure the SSD into the 3.5-inch drive bay using screws. If using an adapter bracket, first mount the 2.5-inch SSD into the bracket, then mount the bracket into the 3.5-inch bay.



Image: The CoreParts 1TB 3.5-inch SATA III TLC SSD (top) showing its SATA data and power connectors, alongside a typical 3.5-inch mounting bracket (bottom) used for installation into a desktop computer chassis.

4. **Connect Cables:**

- Connect one end of a SATA data cable to the SSD's data port and the other end to an available SATA port on your motherboard.
- Connect a SATA power cable from your power supply unit (PSU) to the SSD's power port.

5. **Close and Power On:** Close your computer case, reconnect all external cables, and power on your computer.

6. **Initialize and Format (New SSD):** For a new SSD, you will need to initialize and format it through your operating system's Disk Management utility (Windows) or Disk Utility (macOS) before it can be used. Refer to your operating system's documentation for detailed steps.

OPERATING INSTRUCTIONS

Once installed and formatted, your CoreParts SSD functions like any other storage drive. It offers faster boot times and application loading compared to traditional hard disk drives.

- **Data Storage:** Use the SSD for storing your operating system, applications, and frequently accessed files to benefit from its high read/write speeds.
- **TRIM Command:** Ensure your operating system has TRIM enabled. TRIM helps maintain the SSD's performance over time by allowing the OS to inform the SSD which data blocks are no longer in use and can be

wiped internally. Most modern operating systems enable TRIM by default for SSDs.

- **Avoid Defragmentation:** Unlike HDDs, SSDs do not benefit from defragmentation. Defragmenting an SSD can reduce its lifespan without improving performance.

MAINTENANCE AND BEST PRACTICES

To ensure the longevity and optimal performance of your CoreParts SSD, consider the following:

- **Keep Firmware Updated:** Periodically check the CoreParts website for any available firmware updates for your SSD model. Firmware updates can improve performance, stability, and compatibility.
- **Maintain Free Space:** While not strictly necessary, keeping some free space (e.g., 10-15%) on your SSD can help maintain performance, especially for drives that use over-provisioning.
- **Regular Backups:** As with any storage device, regularly back up your important data to prevent loss in case of unforeseen issues.
- **Proper Shutdown:** Always shut down your computer properly. Abrupt power loss can sometimes lead to data corruption or drive issues.

TROUBLESHOOTING

If you encounter issues with your CoreParts SSD, try the following solutions:

- **SSD Not Detected:**
 - Check all SATA data and power cable connections. Ensure they are securely seated.
 - Verify that the SATA port on the motherboard is enabled in the BIOS/UEFI settings.
 - Try connecting the SSD to a different SATA port or with different cables.
 - Ensure the SSD is initialized and formatted in Disk Management (Windows) or Disk Utility (macOS).
- **Slow Performance:**
 - Confirm that TRIM is enabled for your operating system.
 - Ensure your motherboard's SATA controller is set to AHCI mode in the BIOS/UEFI.
 - Check for available firmware updates for the SSD.
 - Ensure the SSD is not excessively full (try to keep 10-15% free space).
- **Operating System Not Booting from SSD:**
 - Verify the boot order in your BIOS/UEFI settings to ensure the SSD is prioritized.
 - If you cloned your OS, ensure the cloning process was successful and the boot partition is active.

If issues persist, contact CoreParts customer support for further assistance.

SPECIFICATIONS

| Feature | Detail |
|--------------------------|-------------------------|
| Brand | CoreParts |
| Model Number | CP-SSD-3.5-TLC-1000 |
| Digital Storage Capacity | 1 TB (1000 GB) |
| Flash Memory Type | TLC (Triple-Level Cell) |
| Interface | SATA III (6 Gb/s) |

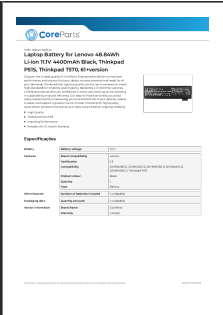

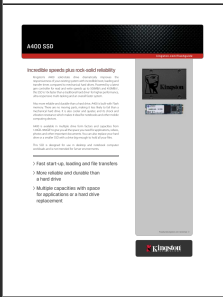
| Feature | Detail |
|----------------------------|-----------------------------|
| Controller | SMI2258XT |
| Read/Write Speed | Up to 550 MB/s (Read/Write) |
| Form Factor | 3.5 Inches |
| Product Dimensions (LxWxH) | 1.1 x 9.7 x 6.5 inches |
| Item Weight | 10.6 ounces |
| Compatible Devices | Desktop Computers |
| Installation Type | Internal Hard Drive |




WARRANTY AND SUPPORT

CoreParts products are designed for reliability and performance. For information regarding warranty coverage, technical support, or service, please refer to the warranty card included with your product or visit the official CoreParts website. Keep your proof of purchase for warranty claims.

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Related Documents - CP-SSD-3.5-TLC-1000

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|---|--|
|  | <p>CoreParts Laptop Battery for Lenovo Thinkpad P51S/T570 - 48.84Wh</p> <p>High-quality CoreParts laptop battery (48.84Wh, 11.1V, 4400mAh) compatible with Lenovo Thinkpad P51S and T570 models. Features reliable performance and a 12-month warranty.</p> |
|  | <p>CoreParts Projector Lamp for Optoma S400LVE, Acer, Infocus, NEC - ML13821</p> <p>Detailed specifications and compatibility list for the CoreParts ML13821 projector lamp, compatible with various Optoma, Acer, Infocus, and NEC projector models.</p> |
|  | <p>Kingston A400 SSD: High-Speed and Reliable Storage Solution</p> <p>Explore the Kingston A400 SSD, a solid-state drive designed to dramatically improve system responsiveness with incredible boot, loading, and transfer speeds. Learn about its features, rugged durability, multiple capacities, and detailed specifications.</p> |

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|  | <p>Silicon Power 2.5" Solid State Drive Installation Guide</p> <p>This guide provides comprehensive instructions for installing Silicon Power 2.5" Solid State Drives (SSDs) in both desktop and notebook computers. It covers features, specifications, installation steps, BIOS configuration, and online support resources.</p> |
|  | <p>KingSpec M.2 NVME SSD Installation Guide and Product Details</p> <p>Comprehensive guide for KingSpec M.2 NVME SSD installation, featuring a video link and product specifications for capacities up to 2TB.</p> |
|  | <p>SSK SD301 Portable Solid State Flash Drive User Manual</p> <p>Discover the SSK SD301 Portable Solid State Flash Drive, a high-speed external SSD featuring dual USB-A and USB-C interfaces for broad compatibility across computers, tablets, and smartphones. This user manual provides essential information on its features, connection, usage, and storage capacity, ensuring optimal performance and data security.</p> |