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PNY SSD7CS900-120-RBX10

PNY CS900 Series 120GB 2.5" SATA III Internal Solid State Drive User Manual

Model: SSD7CS900-120-RBX10

1. Introduction

The PNY CS900 2.5-inch SATA-III (6 Gb/s) solid state drive (SSD) is designed as an upgrade solution for existing PC systems. It aims to provide faster boot times, quicker application launches, and improved overall system performance compared to traditional hard disk drives (HDDs). The CS900 drive features no moving parts, contributing to its durability and reliability.

This manual provides instructions for the installation, operation, maintenance, and troubleshooting of your PNY CS900 SSD.

2. What's in the Box

Your PNY CS900 SSD package includes:

- PNY CS900 2.5" SATA III Solid State Drive

Note: If you purchased a multi-pack, the quantity of SSDs will correspond to your order.

3. Installation Guide

The PNY CS900 SSD is compatible with desktop and laptop computers. Installation typically involves replacing an existing 2.5-inch hard drive or adding the SSD as a secondary storage device.

3.1 Before You Begin

- **Backup Data:** Always back up important data from your existing drive before beginning any installation.
- **Power Off:** Ensure your computer is completely powered off and disconnected from the power source.
- **Static Protection:** Use an anti-static wrist strap or periodically touch a grounded metal object to discharge static electricity.
- **Tools:** You may need a Phillips head screwdriver.

3.2 Desktop Installation

1. Open your computer case.
2. Locate an available 2.5-inch drive bay. If your case only has 3.5-inch bays, you may need a 2.5-inch to 3.5-inch adapter bracket (not included).
3. Mount the SSD into the drive bay using screws.
4. Connect a SATA data cable from the SSD to an available SATA port on your motherboard.
5. Connect a SATA power cable from your power supply unit (PSU) to the SSD.
6. Close your computer case.



Image: PNY CS900 SSD installed inside a desktop computer case, connected to the motherboard. This image illustrates the typical placement and connections for an SSD within a desktop PC chassis.

3.3 Laptop Installation

1. Refer to your laptop's manufacturer manual for specific instructions on accessing the drive bay. This often involves removing a panel on the bottom of the laptop or the entire bottom casing.
2. Remove the existing 2.5-inch hard drive (if replacing).

3. Carefully insert the PNY CS900 SSD into the drive bay, ensuring it connects properly to the SATA connector. Secure it with any retaining clips or screws.
4. Reassemble your laptop.



Image: PNY CS900 SSD placed next to a laptop keyboard, illustrating its compact size. This image demonstrates the compact form factor of the SSD, suitable for laptop upgrades.

3.4 Operating System Installation / Data Migration

After physical installation, you will need to install an operating system on the SSD or migrate your existing operating system and data from your old drive.

- **New Installation:** Boot from your operating system installation media (USB drive or DVD) and follow the prompts to install the OS on the PNY CS900 SSD.
- **Data Migration:** The PNY CS900 SSD includes Acronis True Image HD 2017 data migration software. This software allows you to clone your existing drive's contents to the new SSD. Refer to the Acronis documentation for detailed instructions on using the software.

4. Operating Your SSD

Once installed and configured, your PNY CS900 SSD operates like any other storage drive in your system, but with significantly improved performance. You will experience:

- Faster system boot-up times.
- Quicker loading of applications and files.
- Improved overall system responsiveness.

The SSD is automatically managed by your operating system for optimal performance. No special user interaction is typically required for daily operation.

5. Maintenance

Solid State Drives require different maintenance practices than traditional HDDs. Follow these guidelines to ensure optimal performance and longevity:

- **Do Not Defragment:** Unlike HDDs, SSDs do not benefit from defragmentation. Defragmenting an SSD can reduce its lifespan. Modern operating systems automatically detect SSDs and disable defragmentation.
- **Enable TRIM:** Ensure that the TRIM command is enabled in your operating system. TRIM helps the SSD manage its data blocks efficiently, maintaining performance over time. Most modern operating systems (Windows 7+, macOS, Linux) enable TRIM by default for SSDs.
- **Keep Firmware Updated:** Periodically check the PNY website for firmware updates for your CS900 SSD. Firmware updates can improve performance, stability, and compatibility.
- **Avoid Filling to Capacity:** While not strictly necessary, leaving some free space (e.g., 10-15%) on your SSD can help maintain optimal performance, as it provides more room for the drive's wear-leveling algorithms.

6. Troubleshooting

If you encounter issues with your PNY CS900 SSD, consider the following troubleshooting steps:

6.1 SSD Not Detected by System

- **Check Cables:** Ensure both the SATA data cable and SATA power cable are securely connected to the SSD and the motherboard/PSU.
- **BIOS/UEFI Settings:** Enter your computer's BIOS/UEFI settings and verify that the SATA port the SSD is connected to is enabled. Also, check if the SSD is recognized in the storage device list.
- **Try Different Port/Cable:** Test the SSD with a different SATA data cable, power cable, or SATA port on the motherboard.
- **Disk Management (Windows):** In Windows, open Disk Management (right-click Start button > Disk Management). The SSD might appear as an uninitialized disk. You will need to initialize it and create a new simple volume before it can be used.

6.2 Slow Performance

- **SATA Mode:** Ensure your motherboard's SATA controller is set to AHCI mode in the BIOS/UEFI, not IDE mode. AHCI is required for optimal SSD performance and TRIM functionality.
- **TRIM Enabled:** Verify that TRIM is enabled in your operating system (see Maintenance section).
- **Driver Updates:** Ensure your motherboard's SATA controller drivers are up to date.
- **Free Space:** Ensure the SSD is not completely full.

6.3 Operating System Issues After Migration

- **Boot Order:** Check your BIOS/UEFI boot order to ensure the PNY CS900 SSD is set as the primary boot device.
- **Migration Software:** If you used cloning software, ensure the cloning process completed successfully and that all partitions were correctly transferred.

7. Technical Specifications

Feature	Specification
Model Number	SSD7CS900-120-RBX10
Capacity	120GB
Form Factor	2.5-inch
Interface	SATA III (6 Gb/s)
Sequential Read Speed	Up to 515 MB/s
Sequential Write Speed	Up to 490 MB/s
Dimensions (L x W x H)	3.94 x 2.76 x 0.28 inches (100 x 70 x 7 mm)
Weight	Approximately 1.8 ounces (51 grams)
Compatible Devices	Desktop, Laptop
Operating Temperature	0°C to 70°C
Storage Temperature	-40°C to 85°C

8. Warranty Information

The PNY CS900 SSD comes with a limited warranty. PNY CS900 series SSDs typically support up to 3 years of warranty from the date of purchase. For specific terms, conditions, and the duration of your warranty, please refer to the official PNY website or the warranty documentation included with your product.

Proof of purchase is required for all warranty claims.

9. Customer Support

For further assistance, technical support, or to download the latest drivers and firmware, please visit the official PNY support website:

www.pny.com/support

You may also find frequently asked questions (FAQs) and additional resources on the support page.

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