

Plextor PX-256M6Pro

Plextor M6 PRO Series 256GB SSD User Manual

Model: PX-256M6Pro

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Plextor M6 PRO Series 256GB 2.5-inch Internal Solid State Drive (PX-256M6Pro). Please read these instructions carefully before proceeding with installation or use to ensure proper functionality and longevity of the product.

2. PRODUCT FEATURES

The Plextor M6 PRO Series SSD offers high-performance storage for compatible systems. Key features include:

- **Capacity:** 256 GB
- **Sequential Read Rate (SATA 6Gb/s):** Up to 545 MB/s
- **Sequential Write Rate (SATA 6Gb/s):** Up to 490 MB/s
- **Random Read Rate (IOPS 4KB):** Up to 100,000 IOPS
- **Random Write Rate (IOPS 4KB):** Up to 86,000 IOPS



Image 1: Top-down angled view of the Plextor M6 PRO 256GB SSD, showcasing its brushed metal finish and Plextor logo.

3. SETUP AND INSTALLATION

3.1 Pre-installation Checklist

- Ensure your computer's motherboard supports SATA 6Gb/s (SATA III) for optimal performance.
- Back up all important data from your existing storage drive before proceeding.
- Gather necessary tools: Phillips head screwdriver, SATA data cable, SATA power cable (usually from PSU).

3.2 Physical Installation (Desktop PC)

1. **Power Off:** Shut down your computer completely and disconnect the power cable.
2. **Open Case:** Remove the side panel of your computer case.
3. **Mount SSD:** Secure the 2.5-inch SSD into an available 2.5-inch drive bay or a 3.5-inch bay using an adapter bracket (not included).
4. **Connect Cables:**
 - Connect one end of the SATA data cable to the SSD 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.
5. **Close Case:** Replace the side panel and reconnect the power cable.

3.3 Physical Installation (Laptop)

1. **Power Off:** Shut down your laptop and disconnect the power adapter. Remove the battery if possible.
2. **Access Drive Bay:** Refer to your laptop's manual for instructions on how to access the internal drive bay. This usually involves removing a panel on the bottom or the entire bottom casing.
3. **Remove Old Drive (if applicable):** Carefully disconnect and remove the existing hard drive or SSD.
4. **Install New SSD:** Insert the Plextor M6 PRO SSD into the drive bay, ensuring it is securely seated in the SATA connector. Secure it with any screws or brackets provided by your laptop manufacturer.
5. **Reassemble:** Reattach the panel/casing and battery.



Image 2: Angled view of the Plextor M6 PRO 256GB SSD, highlighting the SATA data and power connectors on the side.

3.4 Software Setup

1. **Boot System:** Power on your computer.
2. **BIOS/UEFI Settings:** Access your system's BIOS/UEFI settings (usually by pressing `Del`, `F2`, or `F10` during startup). Ensure the SATA controller mode is set to **AHCI** for optimal SSD performance.
3. **Initialize Disk:** For a new SSD, you will need to initialize it in Disk Management (Windows) or Disk Utility (macOS). Create a new partition and format it.
4. **Operating System Installation/Migration:** Install your operating system onto the SSD or migrate your existing OS from another drive using appropriate software.

4. OPERATING INSTRUCTIONS

Once installed and configured, the Plextor M6 PRO SSD functions as a standard storage device. It provides significantly faster boot times, application loading, and file transfers compared to traditional hard disk drives.

- **Primary Drive:** If used as the primary drive, your operating system will benefit from the SSD's speed.
- **Secondary Drive:** If used as a secondary drive, it can store frequently accessed applications or games for faster loading.
- **TRIM Command:** Ensure your operating system supports and 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.



Image 3: Close-up top view of the Plextor M6 PRO 256GB SSD, showing the detailed Plextor logo and the brushed texture of the casing.

5. MAINTENANCE

Proper maintenance can extend the lifespan and maintain the performance of your SSD.

- **Do Not Defragment:** Unlike traditional hard drives, SSDs do not benefit from defragmentation. It can actually reduce the lifespan of the drive.
- **Ensure TRIM is Enabled:** Regularly verify that TRIM is active in your operating system.
- **Keep Firmware Updated:** Check the Plextor website for any available firmware updates for your SSD model. Firmware updates can improve performance, stability, and compatibility.
- **Monitor Drive Health:** Use S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) tools to monitor the health and estimated lifespan of your SSD.

6. TROUBLESHOOTING

If you encounter issues with your Plextor M6 PRO SSD, consider the following:

- **SSD Not Detected:**
 - Check all SATA data and power cable connections.
 - Verify the SSD is enabled in your system's BIOS/UEFI settings.
 - Try connecting the SSD to a different SATA port or with different cables.

- **Slow Performance:**

- Ensure your motherboard's SATA controller is set to AHCI mode in BIOS/UEFI.
- Confirm that TRIM is enabled in your operating system.
- Check for outdated SATA drivers.
- Ensure the SSD is not nearly full (performance can degrade when very little free space remains).

- **Operating System Errors:**

- If the OS is installed on the SSD, consider reinstalling the operating system if issues persist after checking hardware.
- Run disk check utilities provided by your operating system.



Image 4: Top-down angled view of the Plextor M6 PRO 256GB SSD, showing the top surface and screw holes on the sides.

7. SPECIFICATIONS

Attribute	Detail
Brand	Plextor
Series	PX-256M6Pro
Form Factor	2.5-inch
Digital Storage Capacity	256 GB
Hard Disk Description	Solid State Drive
Hard Drive Interface	Solid State (SATA)

Attribute	Detail
Connectivity Technology	SATA
Compatible Devices	Desktop, Laptop
Installation Type	Internal Hard Drive
Product Dimensions	10.01 x 6.99 x 0.69 cm
Item Height	0.27 inches (0.69 cm)
Item Width	2.75 inches (6.99 cm)
Manufacturer	Plextor
ASIN	B00MMMNCIL
Date First Available	15 August 2014

8. WARRANTY AND SUPPORT

This Plextor M6 PRO Series SSD is covered by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Plextor website. For technical support, driver downloads, or firmware updates, please visit the official Plextor support page or contact their customer service directly.

Official Plextor Website: www.goplextor.com