



SSD 2.5" Solid State Drive

Serial ATA 6Gb/s

PX-Í FGM3P

Í FGB SSD

The Plextor M3 Pro SATA 6Gb/s series of drives sets new standards for sustained performance providing maximum sequential read/write speeds of 540 MB/s and 450 MB/s and random read/write speeds of up to 75,000/69,000 IOPS. The ultra-slim form factor, performance, and included upgrade kit make the M3 Pro 2.5" SSD the ideal upgrade to boost the responsiveness and performance of ultra-slim notebooks.

As you would expect from Plextor, the M3 Pro is one of the fastest consumer SSDs in the world scoring particularly well on the real-world benchmark tools PCMark 7 and AS SSD. Once installed drive's impressive storage speed translates into a dramatic and very noticeable improvement in your system's overall performance and a far more responsive computing experience.

The drive makes full use of True Speed technology to allow it to continue to deliver sustained high-performance over the long-term without problems of drastic slowdown commonly experienced in many SSDs after intense or prolonged use.

Supplied with M3 Pro is an advanced disc cloning utility to transfer an exact copy of the data from your existing hard drive onto the new SSD. This makes upgrading a simple, pain-free process, saving you the inconvenience of manually reinstalling the OS and programs, and copying user files. Also included in the upgrade kit is a 3.5" bracket for easy desktop PC mounting.

In line with Plextor's reputation as the maker of the "Rolls-Royce of ODDs", Plextor M3 Pro sets a new benchmark for SSD performance and quality. Upgrading your ultra-slim notebook, notebook, or desktop with an M3 Pro SSD provides your system with the high-speed storage it needs to reach its full performance potential. The M3 Pro is available in 128 GB, 256 GB, and 512 GB capacities.

Ideal for Notebook Installation

- Ultra-thin at only 7mm for slim notebook HDD replacement. Fits notebooks supporting 2.5" SATA drives
- Extremely low power consumption when active and idle delivers greater battery life. Specialized firmware and 1.8V power mode make the M3 Pro one of the most energy efficient SSDs available
- Allows fast startup, shutdown, and 2-second wake from standby for convenience during travel.
- High shock resistance 1,500G/0.5 ms in operation making M3 Pro more durable than HDD enables use on the move.

Outstanding Performance

- World's fastest sustained random read/ write speed - 75,000/69,000 IOPS at 4K file size, and impressive 540/450 MB/s sequential read/ write speed
- Optimizes system wide performance by combining high-speed storage, SATA 6GB/s, and low power consumption.
- Consistently high storage performance for all data types including highly compressed video, picture, and audio data.
- Supports the latest SATA 6Gb/s interface with backward compatibility for older SATA standards

Innovative True Speed Technology

- True Speed delivers long-term sustained high-performance by combining exclusive firmware features including Instant Restore with a Marvell 88SS9174 controller chip and top quality Toshiba toggle mode MLC NAND flash
- Prevents drastic performance drop seen in many SSD devices after a few days of intense use or over longer term.
- Enables like-new sustained read/write performance throughout extensive lifetime of product and in all real-world conditions.

Five-Year Ironclad Warranty

- Five-Year Ironclad Warranty fully backed by Plextor's global support network for complete confidence
- Lifetime technical support via websites, staffed forums, and telephone helplines. Regular firmware and software updates to enhance capabilities and improve performance.

Complete Hardware/Software Upgrade Kit

- Includes drive cloning utility to transfer the exact contents of an existing hard drive onto SSD via a second drive bay or external enclosure. Upgrade simply without having to reinstall your OS, programs, and data.
- 3.5" bracket with screws enabling the M3 Pro to be installed in desktop PCs as well as notebook PCs

PX-512M3P

512GB SSD

Performance

Capacity	512GB
Buffer	512MB DDR3
Read/Write Speed (Under Windows NTFS)	
Sequential Read Speed (SATA 6Gb/s)	Up to 535 MB/s
Sequential Write Speed (SATA 6Gb/s)	Up to 450 MB/s
Random Read Speed (IOPS 4KB)	Up to 56,000
Random Write Speed (IOPS 4KB)	Up to 34,000
Power Consumption	2.8W (Active); 0.7W (Idle) typical
Environment and Reliability	
Temperature	0°C ~ 70°C (Operating)
Shock	1500G, 0.5 ms
Vibration	7 ~ 800Hz, 2.17G (RMS, Operation)
MTBF	1,500,000 hours
Warranty	5 years Plextor's Warranty Service

Compatibility

Operating System Supported	Microsoft Windows Family / Linux / Mac OS
Agency Approval	UL, CE, BSMI, WHQL, RoHS
Command Set Support	TRIM, S.M.A.R.T., NCQ, ATA/ATAPI-8
DATA Encryption	Supported
Firmware Upgrade	Supported

Form Factor and Connectors

Form Factor	2.5 inch form factor
Power Connector	15-pin SATA connector for DC 5V input
Data Connector	7-pin SATA connector

Dimension and Weight

Dimension (W/H/D)	69.85 mm x 100mm x 7mm
Weight	65g

Package Contents

Drive	512GB SSD
Software	Image software included
Accessory	3.5" Bracket
Document	Quick installation guide Users manual and warranty statement

System Requirements (For Bundled Software)

CPU	Pentium 4 1.3GHz and higher
Memory (RAM)	512 MB RAM or higher
Interface	SATA (Serial ATA)
Operating System	Microsoft Windows 7 Microsoft Windows Vista SP1 Microsoft Windows XP SP3 / XP-Pro (x64) SP2
Other	CD-RW/DVD-RW drive for bootable media creation Internet connection recommended for updates