



# SSD 2.5" Solid State Drive

Serial ATA 6Gb/s

SSD M5Pro Series

128GB/256GB/512GB

The Plextor M5Pro is a professional SSD designed for business and advanced users who demand high performance, reliability, and true data integrity. With the latest Marvell® 88SS9187 controller to deliver continuous high performance, M5Pro provides random read/write speeds up to 100,000/88,000 IOPS and sequential read/write speeds up to 540/470 MB/s. Even under heavy loads the multi-core controller and exclusive Plextor firmware make the M5Pro extremely fast, reliable, and stable.

The M5Pro has a unique double-data protection system to protect the integrity and confidentiality of your data. To confirm that each piece of data is correctly stored with one hundred percent accuracy the newest 128-bit error correction code is used; this is backed by a unique Robust Data Hold-out Algorithm in Plextor's exclusive firmware. This algorithm ensures that even in the very long-term, data can be read with extremely high accuracy. For data confidentiality the M5Pro supports full drive encryption with an Advanced Encryption Standard (AES) 256 bit algorithm using its US Government AES-validated Marvell controller.

The drive was extensively tested during development using the world's most advanced SSD testing facilities to guarantee a high level of stability. The final design was able to pass Plextor's strict enterprise-grade Zero Error standard of 400 units surviving 500 hours of the toughest continuous testing without a single error or failure. Before leaving the factory every individual M5Pro SSD is required to pass a rigorous high temperature burn-in test and accelerated operating simulation.

The Plextor M5Pro is the true definition of a professional SSD: a quality drive built and tested to be fast, reliable, and engineered for enterprise-grade data protection. The drive is backed by a comprehensive five-year warranty. It's available in 128 GB, 256 GB, and 512 GB capacities.

### Ultra-high performance

- Latest server-grade Marvell® 88SS9187 controller guarantees fast and reliable operation under high loads.
- Sequential mode performance up to 540 MB/s read and a maximum of 470 MB/s write, ideal for heavy workstation use and editing uncompressed HD video.
- Real-world random read speeds up to 100,000 IOPS and write speeds up to 88,000 IOPS for all data types at 4K file size, Making it particularly suited for use in ultra-fast RAID 0 arrays.
- True Speed technology gives sustained long-term performance and prevents SSD speed drop, automatically returning performance to like-new speeds.

### Enterprise-grade double-data protection

- Automatically uses the new 128-bit error-correction codes built into the latest Marvell controller to ensure the integrity of data.
- Unique Robust Data Hold-out Algorithm in Plextor's exclusive firmware provides additional long-term protection for your data.
- Supports full 256 bit Advanced Encryption Standard (AES) drive encryption to protect confidential data.

### Professional quality and reliability

- Carefully selected high-quality components, including the latest-generation controller and exclusive Plextor firmware.
- Extremely reliable with a meantime between failures (MTBF) forecast as an impressive 2.4 million hours.
- Passes the strict enterprise-grade Zero Error standard of 400 units surviving 500 hours of the toughest continuous testing without a single error or failure.
- Every single drive rigorously burn-in tested at elevated temperatures and subjected to accelerated usage simulations for complete drive and flash stability.

### Full Five-year warranty

- Five-year warranty for complete peace of mind with the reassurance of Plextor's full technical support and a wide network of dealers and repair centers.



SSD M5P Series

128GB/256GB/512GB

Performance			
Model	PX-128M5P	PX-256M5P	PX-512M5P
Capacity	128GB	256GB	512GB
Buffer	256MB DDR3	512MB DDR3	768MB DDR3
Read/Write Speed (Under Windows NTFS)			
Sequential Read Speed (SATA 6Gb/s)	Up to 540 MB/s	Up to 540 MB/s	Up to 540 MB/s
Sequential Write Speed (SATA 6Gb/s)	Up to 330 MB/s	Up to 460 MB/s	Up to 470 MB/s
Random Read Speed (IOPS 4KB)	Up to 92,000	Up to 100,000	Up to 100,000
Random Write Speed (IOPS 4KB)	Up to 82,000	Up to 86,000	Up to 88,000
General Specification			
Power Consumption	0.25W (MobileMark)		
Temperature	0°C ~ 70°C (Operating)		
Shock	1500G (Max), at 1 msec half-sine		
Vibration	7 ~ 800Hz, 2.17Grms (Operation)		
MTBF	>2,400,000 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, FCC, KCC, VCCI
Command Set Support	TRIM, S.M.A.R.T., NCQ, ATA/ATAPI-8
DATA Encryption	AES
Interface	SATA6 Gb/s, compatible with SATA 3/1.5 Gb/s
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)	2.75 x 0.276 x 4.0 inch / 69.85mm x 7mm x 100mm
Weight	2.47 oz / 70 g (Max, with case)

Package Contents	
Drive	128GB / 256GB / 512GB SSD
Document	Quick installation guide Users manual and warranty statement"
Accessory	3.5" Bracket

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