

# Winning master, Start faster Enjoy the Drive



**M8VC**

**M8V Series 2.5-inch Solid State Drive  
SATA 6 Gb/s**

## Feature

- ▶ Sequential read / write speed up to 560 / 520 MB/s, Random read / write speed up to 82,000 / 81,000 IOPS
- ▶ 64-Layer 3D NAND
- ▶ Built-in LDPC Technology
- ▶ Supports Exclusive Software



Plextor M8V SATA SSD Series features optimized controller and 64-layer 3D NAND flash. It is built with LDPC technology and supports Plextor exclusive software applications for enhanced performance and reliability.

## Technologically-Advanced Components

The M8V Series boasts of high-quality controller and 64-layer 3D NAND that delivers sequential read / write speeds of up to 560 / 520 MB/s; random read / write speeds of up to 82,000 / 81,000 IOPS.

## Built-in LDPC Technology

LDPC (Low Density Parity Check) technology ensures safety and integrity of data transmission by with its excellent error correcting mechanism. Furthermore, the M8V Series supports RAID Engine (Drive Array Accelerator) and Data shaping (Data management) for enhanced data transfer stability.

## Exclusive Performance Enhancing Applications

The M8V Series supports three exclusive SSD applications. PlexTurbo (Smart Cache) effectively reduces the number of write access on the SSD resulting to extended service life. PlexCompressor (Smart Compression) automatically compresses files that have not been used for more than 30 days, therefore providing more available storage space. A secure storage area provided by PlexVault allows your private/sensitive data to be hidden on a shared computer. In addition, Plextool, a proprietary SSD Toolbox, provides an easy to use interface to monitor status, update firmware and diagnose the drive for data integrity and security.

## Plextor Flawless Quality Control

The M8V Series undergoes high standard flawless quality control. Each SSD is subjected to rigorous inspections from the world-class advanced SSD testing laboratory to ensure error-free performance. The "Plextor endurance testing mechanism" simulates a range of professional read-write scenarios which proudly promises quality and reliability.

# M8V

## M8V Series 2.5-inch Solid State Drive

Specification			
Model	PX-128M8VC	PX-256M8VC	PX-512M8VC
Capacity	128 GB	256 GB	512 GB
Cache	256 MB DDR3	512 MB DDR3	1024 MB DDR3
Controller	SMI SM2258		
NAND Flash	KIOXIA 3D TLC		
Performance (Under Windows NTFS)			
Sequential Read Speed (MB/s)	Up to 560	Up to 560	Up to 560
Sequential Write Speed (MB/s)	Up to 400	Up to 510	Up to 520
Random Read Speed (IOPS)	Up to 60,000	Up to 81,000	Up to 82,000
Random Write Speed (IOPS)	Up to 70,000	Up to 80,000	Up to 81,000
Environment and Reliability			
Power Requirement	DC 5V 1.0A (Max.)	DC 5V 1.5A (Max.)	DC 5V 2.0A (Max.)
Temperature	0°C ~70°C / 32°F ~ 158°F (Operating)		
Shock	1500G (Max.), at 1 msec half-sine		
Vibration	7~800Hz, 3.08Grms (Operating)		
MTBF	1,500,000 Hours		
Endurance (TBW)	70	140	280
Warranty	3 years		
Compatibility			
Operating System Supported	Microsoft Windows OS / Linux OS / Mac OS		
Agency Approval	UL, TUV, FCC, CE, BSMI, VCCI, RCM, KCC, EAC, ROHS, WHQL		
Command Set support	TRIM, S.M.A.R.T, NCQ, ATA/ATAPI-8		
Interface	SATA 6.0 Gb/s, compatible with SATA 3.0 / 1.5Gb/s		
Firmware Upgrade	Supported		
Form Factor and Connectors			
Form Factor	2.5 inch		
Power Connector	15-pin SATA connector for DC 5V input		
Data Connector	7-pin SATA connector		
Dimension and Weight			
Dimension (L x W x H)	100.00 x 69.85 x 6.8 mm / 3.94 x 2.75 x 0.27 inch		
Weight	60g / 2.12oz (Max.)		
Package Content			
Drive	128 GB / 256 GB / 512 GB SSD		
Documents	Quick Installation Guide		

Specification subject to change without notice.

Actual performance may vary according to hardware, software and overall system configuration.

Performance measured by CrystalDiskMark ver. 5.0.2, IOMETER 1.1.0

Test Platform: Motherboard ASUS X99-A II, Win 10 professional x64

[www.PLEXTOR.com](http://www.PLEXTOR.com)



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