

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

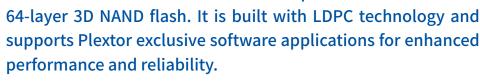












Technologically-Advanced Components

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 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 |
| Sequnetial 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 | | |
| Angency 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 Connector | 'S | | |
| 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

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