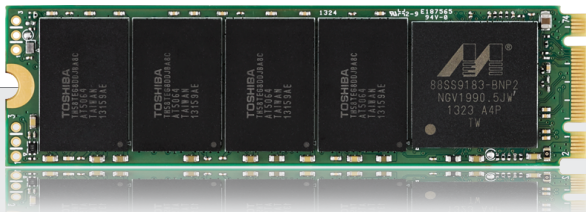


Solid State Drive

M.2 PCIe SSD



SSD M6e Series

128GB/256GB/512GB

Plextor's M6e M.2 PCIe Gen2 x2 is an ultra-fast SSD, which uses the latest generation of components and a native PCIe interface for extremely high performance. It is suitable for ultra-thin notebooks and motherboards supporting 2280 sized (80.0mm × 22.0mm) PCIe M.2 SSDs. Gamers and high-power users will appreciate the responsiveness and ultra-fast loading times that the powerful M6e M.2 delivers.

By bypassing the 6Gbps limit of the SATA Rev 3.0 interface, Plextor's M6e M.2 is able to reach maximum sequential read speeds of 770MB/sec and sequential write speeds of 625MB/sec. Its 4K random speeds top out at 105K and random write speeds go up to 100K IOPS. Performance that translates into fast level load, quick boot times, smooth video editing and more.

Giving the M6e M.2 its speed is the combination of a multi-core Marvell PCIe 9183 controller, high quality Toshiba Toggle NAND flash memory, a fast onboard DDR3 DRAM Cache, and Plextor's own in-house produced custom firmware. Plextor focuses on reliability, undertaking extensive testing at its own state-of-the-art facilities giving the M6e M.2 a calculated MTBF of 2.4 million hours.

Every M6e M.2 drive is individually burned in and tested for absolute stability, and backed by Plextor's full five-year long-term warranty.

Powerful components, channeled through a fast interface, built by a company known for performance, stability, and quality – the Plextor M6e M.2 takes SSD technology to the next level. It is available in 128GB, 256GB, and 512GB capacities.

Maximum Performance

- Latest generation Marvell 88SS9183 flash controller with multiple cores for efficient performance during intense gaming
- 770MB/sec read and 625MB/sec write max speeds in sequential mode for easy editing of large files and fast loading of large levels*
- 105K IOPS read and 100K IOPS write random max speeds for fast real-world performance and smooth multi-tasking*
- PCI Express 2.0 x2 interface and native PCIe controller chip eliminates the SATA interface bottleneck

Plextor Quality and Reliability

- Specially selected high-quality components combined with firmware developed in-house by Plextor's expert engineers
- Extensively tested during development for reliability and compatibility with a market-leading MTBF of 2.4 million hours.
- 100% burn-in and simulated usage testing of each individual drive to ensure maximum stability before it reaches the end user

Highly Compatible and Convenient

- M.2 2280-D5-B-M form factor SSD with dimensions of 80.0mm × 22.0mm × 3.8mm for PCI express (PCIe) M.2 slots
- Driver-free AHCI (Advanced Host Controller Interface) compatibility eliminates the need for additional drivers
- Supports booting on legacy BIOS's and quick UEFI boot, providing flexibility and compatibility with a wide range of systems

Full Five-year Warranty

- Backed by a full five-year Plextor warranty and international technical support

Performance			
Model	PX-G128M6e	PX-G256M6e	PX-G512M6e
Capacity	128 GB	256GB	512GB
DRAM Cache	256MB DDR3	512MB DDR3	1GB DDR3
Read/Write Speed (Under Windows NTFS)			
Sequential Read Speed *	Up to 770 MB/s	Up to 770 MB/s	Up to 770 MB/s
Sequential Write Speed *	Up to 335 MB/s	Up to 580 MB/s	Up to 625 MB/s
Random Read Speed (IOPS 4KB) *	Up to 96,000	Up to 105,000	Up to 105,000
Random Write Speed (IOPS 4KB) *	Up to 83,000	Up to 100,000	Up to 100,000

* Test Platform : Motherboard : ASUS P14-Z87-PRO / CPU : Intel i5-4570 3.40Ghz / BIOS : ver. 1504 / AHCI driver : 6.2.9200.16384 / OS: windows 7 & 8 x 64

Environment and Reliability	
Temperature	0°C~70°C (Operating)
Shock	1500G (Max), at 1msec half-sine
Vibration	7~800Hz, 16.3Grms(Non-operating)
MTBF	> 2,400,000 hours
Warranty	5 years

Compatibility	
Operating Systems Supported	Windows 7 x86, x64 / Windows 8 x86, x64 / Linux series, Fedora, SUSE, Ubuntu / Windows Server 2008, 2012 / Red Hat 6.5
Agency Approval	BBSMI/UL/TUV/C-Tick/CE/KCC/VCCI/FCC/ ROHS/CB
Command Sets Supported	TRIM, S.M.A.R.T., NCQ
Data Encryption	AES 256
Interface	PCIe Gen2 x 2
Firmware Upgrade	Supported

Form Factor and Connectors	
Form Factor	M.2 2280
Power Connector	3.3V input
Data Connector	M.2 connector
Dimension and Weight	
Dimension (L/W/H)	80.0 mm x 22.0 mm x 3.8 mm (L x W x H)
Weight	13 g (Max.)

Package Contents	
Drive	128GB / 256GB / 512GB SSD

Actual performance may vary based on hardware, software, and overall system configuration.

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