



Boost Your Mobile Computing Experience

Our next-generation M500 solid state drive (SSD) is designed to meet the increasingly demanding needs of the mobile computing market. The M500 delivers strong performance, greatly reduces power consumption, and provides exceptional data protection. It is offered in three thin, ultra-compact form factors in several different capacities.

Built using Micron's 20nm NAND Flash—one of the most cost-effective NAND devices in the industry—the M500 provides high quality and reliability at a very competitive price. This drive gives consumers a real boost in performance and responsiveness that will keep them coming back for more SSD-powered solutions.

Ideal Applications

- Ultrathin computers
- Notebook computers
- Tablets
- Desktop PCs
- Video-on-demand systems
- Embedded systems

Key Benefits

High Performance and Responsiveness

Delivers significantly faster boot, file, and application load times compared to traditional hard drives.

Low Power

Consumes less power, which translates to longer battery life.

Robust Data Security and Reliability

Uses built-in data protection features, including best-in-class encryption, to provide security and reliability without impacting drive performance.

Flexibility

Meets unique application requirements with three ultra-compact form factors available in several capacities.

	2.5-Inch	mSATA	M.2
Capacity ¹	120GB, 240GB, 480GB, 960GB	120GB, 240GB, 480GB	120GB, 240GB, 480GB
Interface	SATA 6 Gb/s		
Sequential read performance	Up to 500 MB/s		
Sequential write performance	120GB: Up to 130 MB/s 240GB: Up to 250 MB/s 480GB and 960GB: Up to 400 MB/s		
PCMark® vantage scores	Up to 80,000		
Active average power consumption ²	150mW		
Idle power consumption	<100mW		
Operating temp	Commercial (0°C to +70°C)		
Dimensions	100.45 x 69.85 x 7mm	50.80 x 29.85 x 3.75mm	80 x 22 x 3.5mm
Weight	70g (MAX)	10g (MAX)	10g (MAX)
<small>1. Unformatted. 1GB = 1 billion bytes. Formatted capacity is less. 2. Data taken at 25°C using a SATA 6 Gb/s interface. Power measured while running MobileMark® 2012. Device-initiated power management (DIPM) enabled.</small>			

Micron® M500 SATA SSD

Why Micron for SSDs?

- **Worldwide NAND Flash leadership** – Micron SSD customers have the assurance of working with the world's leader in NAND Flash design. Our expertise in NAND technology sets us apart as a vertically integrated supplier with the unique ability to ensure end-to-end quality and to optimize our SSDs for our NAND components.
- **Extensive testing** – Our rigorous product testing translates to predictably reliable, high-quality drives.
- **Proven start-to-finish quality** – From component design to fabrication to the finished package device, our stringent quality requirements, significant investments in SSD test equipment, and advanced NAND management algorithms mean that reliability is literally built into every drive.



Nearly Half a Terabyte on a Stick of Gum: The M500 drive's caseless, incredibly slim and ultra-compact M.2 form factor is about the size of a stick of gum. It packs tremendous power and performance into some very slender mobile designs.



Ideal for Ultrathins: We built the M500 SSD to meet the performance and power specifications of the ultrathin market. The drive's device sleep and adaptive thermal throttling features—coupled with its slim, durable form factors, robust data protection, and instant-on response time—make it an ideal storage solution for mobile computing.

Part	Capacity	Form Factor	Voltage	Sequential Read/Write (Up to)	Random Read/Write (Up to)
MTFDDAK120MAV	120GB	2.5in	5V ±10%	500/130 MB/s	62,000/35,000 IOPS
MTFDDAK240MAV	240GB	2.5in	5V ±10%	500/250 MB/s	72,000/60,000 IOPS
MTFDDAK480MAV	480GB	2.5in	5V ±10%	500/400 MB/s	80,000/80,000 IOPS
MTFDDAK960MAV	960GB	2.5in	5V ±10%	500/400 MB/s	80,000/80,000 IOPS
MTFDDAT120MAV	120GB	mSATA	3.3V ±5%	500/130 MB/s	62,000/35,000 IOPS
MTFDDAT240MAV	240GB	mSATA	3.3V ±5%	500/250 MB/s	72,000/60,000 IOPS
MTFDDAT480MAV	480GB	mSATA	3.3V ±5%	500/400 MB/s	80,000/80,000 IOPS
MTFDDAV120MAV	120GB	M.2	3.3V ±5%	500/130 MB/s	62,000/35,000 IOPS
MTFDDAV240MAV	240GB	M.2	3.3V ±5%	500/250 MB/s	72,000/60,000 IOPS
MTFDDAV480MAV	480GB	M.2	3.3V ±5%	500/400 MB/s	80,000/80,000 IOPS

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