



Performance and Power for Personal Computing

Our M550 SATA solid state drive (SSD) provides exceptional performance and extremely low power consumption for personal computing devices.

The M550 is built using Micron's 20nm NAND Flash and offers the same features as our popular M500 SSD—including RAIN reliability technology, device sleep (DEVSLP) mode, Opal 2.0 self-encryption, asynchronous power-loss protection, and adaptive thermal monitoring—but with superior performance (up to 550 MB/s, nearly saturating the SATA 6 Gb/s bus) and greater power savings thanks to reduced power consumption during device sleep.

The M550 SSD is built and tested in-house, from start to finish, so you get a higher level of reliability that only comes from a trusted NAND manufacturer.

KEY BENEFITS

High Performance

Deliver super-fast reads and writes and enable almost instant boot-up and wake from sleep.

Low Power Consumption

Consume less power with features like device sleep mode, which extends battery life.

Versatility

Designed with industry-standard capacities and ultra-compact form factors.

Data Security

Build industry-leading encryption, enhanced data protection, adaptive thermal monitoring, and more into your designs.

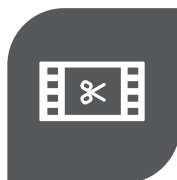
WHICH APPLICATIONS ARE THE BEST FIT?



CORPORATE
NOTEBOOK



ULTRATHIN
PC TABLET



VIDEO
PRODUCTION



EMBEDDED



WORKSTATION

The M550 provides breakneck speeds and ultra-low power use for applications that demand uncompromising performance.

M550 Performance you can trust



MICRON® M550 SATA SSD

SATA

M.2

mSATA

2.5"

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.

Extensive Testing

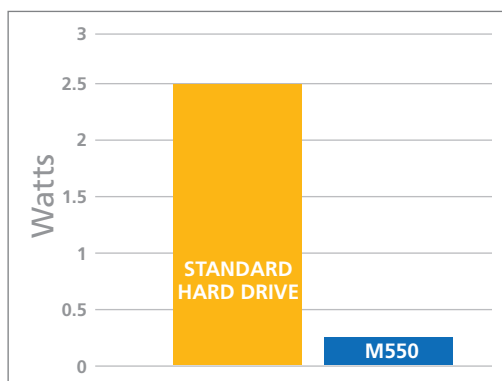
Our rigorous product testing translates to predictably reliable, high-quality drives.

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.



Form Factor Flexibility for Small Designs: The M550 is offered in three thin, ultra-compact form factors—the 2.5-inch, mSATA, and M.2.



Dramatic Power Savings: During typical operations, the M550 can use as little as 6% of the power consumed by a standard hard drive.*

*Power calculations are based on published specs for the 500GB Seagate® Momentus® 7200 rpm internal laptop hard drive, one of the most popular hard drives according to NPD data published in September 2013. The Momentus uses 2.5 watts of power on an average workload compared to 0.15 watts on the Micron M550. In everyday terms, this means significantly more battery life and substantial savings on power costs.

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M550 Performance you can trust

Key Specifications

	2.5-inch	mSATA	M.2
Capacity ¹	64GB, 128GB, 256GB, 512GB, 1TB	64GB, 128GB, 256GB, 512GB	64GB, 128GB, 256GB, 512GB
Interface	SATA 6 Gb/s		
Sequential performance (up to)	Read: 550 MB/s Write: 500 MB/s		
Random performance (up to)	Read: 95,000 IOPS Write: 85,000 IOPS		
PCMark® vantage scores (up to)	90,000		
Active average power consumption ^{2,3}	150mW (TYP)		
Idle average power consumption ²	<100mW		
Device sleep power consumption ²	<3mW		
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 3.58mm
Weight	70g (MAX)	10g (MAX)	10g (MAX)

1. Unformatted. 1GB = 1 billion bytes. Formatted capacity is less.

2. Data taken at 25°C using a SATA 6 Gb/s interface. Device-initiated power management (DIPM) enabled.

3. Active power measured while running MobileMark® Productivity Suite.

Orderable Part Numbers

Part	Capacity	Form Factor
MTFDDAK064MAY	64GB	2.5-inch
MTFDDAK128MAY	128GB	2.5-inch
MTFDDAK256MAY	256GB	2.5-inch
MTFDDAK512MAY	512GB	2.5-inch
MTFDDAK1T0MAY	1TB	2.5-inch
MTFDDAT064MAY	64GB	mSATA
MTFDDAT128MAY	128GB	mSATA
MTFDDAT256MAY	256GB	mSATA
MTFDDAT512MAY	512GB	mSATA
MTFDDAV064MAY	64GB	M.2
MTFDDAV128MAY	128GB	M.2
MTFDDAV256MAY	256GB	M.2
MTFDDAV512MAY	512GB	M.2

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