



## Performance and Power for Client Computing

Our M600 SATA solid state drive (SSD) provides exceptional performance and extremely low power consumption for client computing, from desktop gaming rigs to corporate road warrior tablets.

The M600 is built with specific features to provide superior performance and greater power savings: Our dynamic write acceleration delivers consistent write performance, and device sleep (DEVSLP) low-power modes extend battery life. To protect your valuable data, multiple features do the job: Opal 2.0 self-encryption, asynchronous power-loss protection, RAIN reliability technology, and adaptive thermal monitoring.

Built using Micron's 16nm NAND Flash and tested in-house from start to finish, the M600 gives you the high level of reliability you can only get from a trusted NAND manufacturer.

## KEY BENEFITS

### Predictably High Performance

Boost write speeds with our dynamic write acceleration, which provides top performance across all capacities. Enable lightning-quick boot-up and wake from sleep.

### Low Power Consumption

Stretch battery life with the lowest active and idle power consumption of any client SSD.

### Data Security

Protect data with industry-leading encryption, enhanced data protection, and adaptive thermal monitoring.

### Reliability

Increase reliability in space-constrained designs with our adaptive thermal monitoring feature that limits heat generated by the SSD.

### Endurance

Handle any client workload with up to 400TB of drive life.

## WHICH APPLICATIONS ARE THE BEST FIT?



CORPORATE NOTEBOOK



ULTRATHIN PC TABLET



VIDEO PRODUCTION



EMBEDDED



WORKSTATION

*Breakneck performance, terabyte capacity, and record-setting low-power use—a perfect fit for client storage.*

# MICRON® M600 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.



**Small, Smaller, or Smallest:** The M600 comes in 2.5-inch, mSATA, and two versions of the M.2 form factor to suit the most constrained spaces. Pick the storage size that best fits your design.

### Key Specifications

	2.5-Inch	mSATA	M.2
Capacity <sup>1</sup>	128GB, 256GB, 512GB, 1TB	128GB, 256GB, 512GB	
Interface	SATA 6 Gb/s		
Sequential performance (up to)	Read: 560 MB/s Write: 510 MB/s		
Random performance (up to)	Read: 100,000 IOPS Write: 88,000 IOPS		
PCMark Vantage score (up to)	87,000		
Active average power consumption <sup>2,3</sup> (TYP)	150mW		
Idle average power consumption <sup>2</sup>	<100mW		
Device sleep power consumption <sup>2</sup>	<2mW		
Endurance (TBW)	128GB: 100TB, 256GB: 200TB, 512GB: 300TB, 1TB: 400TB		
Operating temp	0°C to +70°C		
Dimensions	2.5-inch: 100.45 x 69.85 x 7mm mSATA: 50.80 x 29.85 x 3.75mm M.2 2280: 80 x 22 x 3.58mm M.2 2260: 60 x 22 x 2.3mm		
Weight (MAX)	70g	10g	10g
MTTF	1.5 million hours		

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.

### Base Part Numbers

Part	Capacity	Form Factor
MTFDDAK128MBF	128GB	2.5in/7mm
MTFDDAK256MBF	256GB	2.5in/7mm
MTFDDAK512MBF	512GB	2.5in/7mm
MTFDDAK1T0MBF	1024GB	2.5in/7mm
MTFDDAT128MBF	128GB	mSATA
MTFDDAT256MBF	256GB	mSATA
MTFDDAT512MBF	512GB	mSATA
MTFDDAV128MBF	128GB	M.2 2280ss
MTFDDAV256MBF	256GB	M.2 2280ss
MTFDDAV512MBF	512GB	M.2 2280ss
MTFDDAY128MBF	128GB	M.2 2260ds
MTFDDAY256MBF	256GB	M.2 2260ds
MTFDDAY512MBF	512GB	M.2 2260ds

\*For the M.2 form factors, ds = double-sided, ss = single-sided.

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**M600** Performance you can trust

[micron.com/ssd](http://micron.com/ssd)

