MICRON[®] M510DC SATA SSD



Optimized for Read-Heavy, Write-Light Workloads

The read-heavy demands of data center appliances, content delivery networks, virtual desktop infrastructures, and databases using business intelligence and decision support systems (BI/DSS) are the target markets for Micron's M510DC SATA enterprise SSD. The M510DC's robust features, extended endurance, and competitive price point are ideal for sequential workloads with large block transfer sizes.

Get the solid performance you need from an SSD specifically designed for demanding 24/7 enterprise workloads, along with the world-class support and proven quality and reliability that can only be offered by a truly vertically integrated SSD supplier.

KEY BENEFITS

Balanced Total Cost of Ownership

Provides best alignment of features for cost-conscious data center customers who value performance, power efficiency, and reliability.

SATA

2.5"

Optimized Performance

Addresses the growing needs of read-centric, high-capacity platforms while maintaining high levels of random write performance and endurance.

Enterprise-Class Endurance

Offers class-leading write endurance for superior drive life in mixed-workload and virtualized environments.

Increased Power Efficiency

Combines low average power consumption and optimized performance to provide the high level of power efficiency that data center customers require.

XPERT Features

Provides architectural enhancements, including data path protection, encryption, adaptive thermal monitoring and power loss protection, that are designed to greatly improve SSD performance, drive life, and reliability.

WHICH APPLICATIONS ARE THE BEST FIT?



Feature-rich M510DC SSD with enhanced performance and reliability delivers more value to your enterprise applications.

 $\star \star$ BETTER $\star \star \star$ BEST





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.



Key Specifications 2.5-Inch 120GB, 240GB, 480GB, 960GB Capacity¹ Interface SATA 6 Gb/s 120GB: 420/170 MB/s Sequential read/write 240GB: 420/290 MB/s performance² 480GB: 420/380 MB/s 960GB: 420/380 MB/s 120GB: 63,000/12,000 IOPS Random read/write 240GB: 63,000/18,000 IOPS performance³ 480GB: 63,000/23,000 IOPS 960GB: 65,000/10,500 IOPS Up to 2 drive fills/day Endurance⁴ (1 drive fill/day 960GB) **READ/WRITE** latency 0.5ms/3.0ms 120GB, 240GB, 480GB: <6.0W (TYP) Active power consumption (MAX) 960GB: <6.3W (TYP) Active power 1.5W consumption (AVG) Idle/standby/sleep 1.2W power consumption Operating temp 0°C to 70°C 69.85 x 100.45 x 7mm Dimensions eXtended Performance and Enhanced Reliability Technology (XPERT) **Extended Features** suite of enterprise performance and advanced data protection algorithms

Unformatted. 1GB = 1 billion bytes. Formatted capacity is less.
128KB transfer size, steady state.
4KB transfer size, steady state.

4. Random access workload.

Base Part Numbers			
	Part	Capacity	Form Factor
	MTFDDAK120MBP	120GB	2.5-inch
	MTFDDAK240MBP	240GB	2.5-inch
	MTFDDAK480MBP	480GB	2.5-inch
	MTFDDAK960MBP	960GB	2.5-inch

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M510DC Performance you can trust

