MICRON® M500DC SATA SSD

SATA | 1.8" | 2.5"

The Perfect Fit for Data Centers

Meet the 24/7 demands of data center appliances and enterprise storage applications that require 1 to 3 drive fills per day with the M500DC SATA enterprise SSD. The M500DC's rich features and optimized endurance, as well as ensured quality of service over random workloads, is the perfect fit for data centers that need greater data throughput.

The M500DC uses Micron's extended performance and enhanced reliability technology (XPERT) features to help ensure data integrity, extend drive life, and optimize performance. It is available in 1.8-inch and 2.5-inch form factors and 120–800GB capacities. Micron provides world-class support and proven quality and reliability that can only be offered by a truly vertically integrated SSD supplier.

KEY BENEFITS

Low Total Cost of Ownership
Consume significantly less power than with HDDs and lower overall storage costs.

Enhanced Performance
Reduce bottlenecks and maximize throughput with accelerated random read/write capability.

High Reliability and Quality
Protect mission-critical data with a drive that has been built from start to finish by a trusted NAND manufacturer.

Optimized Endurance
Achieve 1 to 3 drive fills per day over 5 years, reducing the need to replace drives more frequently.

WHICH APPLICATIONS ARE THE BEST FIT?

VIRTUALIZED ENVIRONMENTS	BIG DATA	DATABASE MANAGEMENT	HIGH-PERFORMANCE COMPUTING	CONTENT DELIVERY
★★	★★★	★★	★	★★★

Feature-rich M500DC SSD with enhanced performance and reliability delivers more value to your enterprise applications.

★ GOOD ★★ BETTER ★★★ BEST

M500DC *Performance you can trust*

Micron®

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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

	1.8-Inch	2.5-Inch
Capacity[1]	120GB, 240GB, 480GB, 800GB	
Interface	SATA 6 Gb/s	
Sequential read/write performance[2]	120GB: 425/200 MB/s 240GB: 425/330 MB/s 480GB: 425/375 MB/s 800GB: 425/375 MB/s	
Random read/write performance[3]	120GB: 63,000/23,000 IOPS 240GB: 63,000/33,000 IOPS 480GB: 63,000/35,000 IOPS 800GB: 65,000/24,000 IOPS	
READ/WRITE latency	0.5ms/1.5ms	
Active power consumption	120GB, 240GB, 480GB: <6.0W (TYP) 800GB: <6.3W (TYP)	
Idle power consumption	200mW	
Operating temp	0°C to +70°C	
Dimensions	78.5 x 54 x 5mm	100.2 x 69.85 x 7mm
Weight	<55g	<90g

1. Unformatted. 1GB = 1 billion bytes. Formatted capacity is less.
2. 128KB transfer size, steady state.
3. 4KB transfer size, steady state.

Orderable Part Numbers

Part	Capacity	Form Factor
MTFDDAA120MBB	120GB	1.8-inch
MTFDDAA240MBB	240GB	1.8-inch
MTFDDAA480MBB	480GB	1.8-inch
MTFDDAA800MBB	800GB	1.8-inch
MTFDDAK120MBB	120GB	2.5-inch
MTFDDAK240MBB	240GB	2.5-inch
MTFDDAK480MBB	480GB	2.5-inch
MTFDDAK800MBB	800GB	2.5-inch

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