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?

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

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

★★ GOOD ★★ BETTER ★★★ 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.

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### Key Specifications

<table>
<thead>
<tr>
<th>1.8-Inch</th>
<th>2.5-Inch</th>
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<tbody>
<tr>
<td><strong>Capacity</strong></td>
<td>120GB, 240GB, 480GB, 800GB</td>
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<tr>
<td><strong>Interface</strong></td>
<td>SATA 6 Gb/s</td>
</tr>
</tbody>
</table>
| **Sequential read/write performance**<sup>2</sup> | 120GB: 425/200 MB/s  
240GB: 425/330 MB/s  
480GB: 425/375 MB/s  
800GB: 425/375 MB/s |
| **Random read/write performance**<sup>3</sup> | 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** | 1.2W |
| **Operating temp** | 0°C to 70°C |
| **Dimensions** | 78.5 x 54 x 5mm  
100.2 x 69.85 x 7mm |
| **Weight** | <55g  
<90g |

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