

MICRON® P420m PCIe SSD

PCIe

2.5"

HHHL



A PCIe WORKHORSE

The P420m solid state drive (SSD) uses Micron's 25nm multilevel cell (MLC) NAND to deliver enterprise-class PCIe performance at a price accessible to the mainstream market.

The P420m provides the great performance that you expect from Micron's PCIe SSDs. And thanks to our MLC NAND technology, the P420m SSD is offered at a more accessible price point with higher capacities. It also offers extended performance and enhanced reliability technology (XPERT) features like advanced data path protection.

The P420m delivers high performance, low latency, and reduced power consumption for read-intensive applications. It is offered in an HHHL card and a hot-swappable 2.5-inch case.

KEY BENEFITS

Quality

Made start to finish by Micron, ensuring close integration of the controller, firmware, and NAND; comprehensive quality control; and reliable product supply.

High Performance

Improves data transfer times and removes bandwidth bottlenecks; delivers ultra low latency in all workloads.

High Reliability

Protects data with our XPERT feature set and power-loss protection.

Low Total Cost of Ownership

Reduces your storage costs and energy footprint with higher IOPS per watt.

WHICH APPLICATIONS ARE THE BEST FIT?



VIRTUALIZED ENVIRONMENTS

★★★★



BIG DATA

★★★★



DATABASE MANAGEMENT

★★



HIGH-PERFORMANCE COMPUTING

★★



CONTENT DELIVERY

★★

The P420m delivers a balanced feature set that's great for managing virtualized environments and big data applications.

★ GOOD ★★ BETTER ★★★ BEST

P420m Performance you can trust



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.



An Easy Hot Swap: The P420m 2.5-inch form factor can be easily inserted/removed from the front of a server without removing the server from the rack or turning off power. This dramatically improves serviceability and lowers total cost of ownership.

Key Specifications		
	2.5-Inch	HHHL
Capacity ¹	350GB, 700GB	700GB, 1.4TB
Interface	x4 PCIe Gen2	x8 PCIe Gen2
Sequential performance ²	Read: 1.7 GB/s Write: 500 MB/s	Read: 3.3 GB/s Write: 630 MB/s
Random performance ³	Read: 400,000 IOPS Write: 51,000 IOPS	Read: 750,000 IOPS Write: 95,000 IOPS
READ/WRITE latency	≤100µs/ ≤15µs	
Active power consumption	25W	
Idle power consumption	8W (TYP)	
Operating temp	0°C to +85°C	0°C to +85°C
Dimensions	69.85 x 100.20 x 15.00mm	68.90 x 167.65 x 18.71mm
Weight	350GB: 142.9g 700GB: 145.15g	700GB: 199.59g 1.4TB: 204.12g

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
MTFDGAL350MAX	350GB	2.5-inch
MTFDGAL700MAX	700GB	2.5-inch
MTFDGAR700MAX	700GB	HHHL
MTFDGAR1T4MAX	1.4TB	HHHL



"Reliable and compatible, built on a proven platform."
- StorageReview.com

micron.com/ssd

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P420m Performance you can trust

