

ENTERPRISE X-SERIES

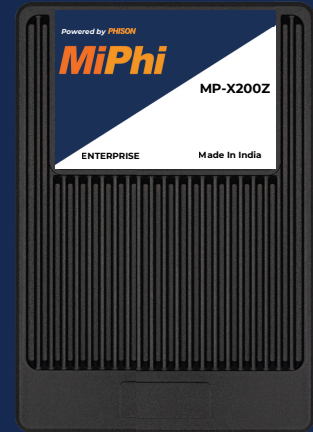
FEATURE-RICH PCIE GEN 5

ENTERPRISE STORAGE

SOLUTIONS

Explicitly engineered as a high-performance cache SSD, the MiPhi MP-X200Z delivers uncompromising performance and endurance in a Gen5 SSD architecture. As the latest addition to the X-Series, the MP-X200Z excels with ultra-low latency, ultra-fast write speeds, and industry-leading durability, perfectly suited for demanding caching workloads in enterprise environments such as real-time analytics, transactional databases, and AI acceleration, and AI training.

With Storage Class Memory (SCM) responsiveness and support for up to 60 Drive Writes Per Day (DWPD), the MP-X200Z is built to thrive under continuous, intensive write operations. Designed for enterprises that demand efficiency, reliability, and performance without compromise, the MP-X200Z sets a new benchmark for enterprise cache SSDs.



- PCIe 5.0 1x4 / 2x2 (Dual port)
- NVMe 2.0
- Capacity up to 30.72TB
- Form Factor: U.2 / E3.S
- DWPD: 1 / 3
- 128 Namespaces
- Power Loss Protection (PLP)
- ISE, TCG Opal 2.0 Support
- AES-XTS 256-bit Encryption
- End-to-End Data Path Protection
- Metadata Protection
- SECDED
- Sanitize
- NVMe-MI (Management Interface)
- SMBus

PCIe 5.0 2x2 (Dual Port)	
Interface	PCIe 5.0 2x2 (Dual Port)
NAND Flash	3D TLC
DWPD	60
UBER	<1 sector per 10 bits
Operating Temperature	0°C - 70°C
Non-Operating Temperature	-40°C - 85°C
MTBF (million years)	2.5

Sequential Performance

Read 14,800 MB/s

Read 9,500K MB/s

Random Performance

Read 3,100K IOPS

Write 950K IOPS

MP-X200Z Specifications

U.2				
	Capacity	800GB	1600GB	3200GB
Performance	Seq Read	14800 MB/s	14800 MB/s	14800 MB/s
	Seq Write	9500 MB/s	9500 MB/s	9500 MB/s
	Random Read	3100K IOPS	3100K IOPS	2800K IOPS
	Random Write	950K IOPS	950K IOPS	950K IOPS
Power Consumption	Max	18 W	20 W	21 W
	Idle	5 W	5 W	5 W
Latency	Read Latency	45 us	45 us	45 us
	Write Latency	10 us	10 us	10 us

KEY FEATURES	
<p>Enterprise Features Support List:</p> <ul style="list-style-type: none"> • Namespace • Dual port • Reservation • Metadata protection • Powerloss protection • Hardware AES-XTS 256-bit encryption • Support SMBbus 	<p>Compliance Support List</p> <ul style="list-style-type: none"> • PCIe 5.0 • NVMe 2.0 • Management Interface • Rev 1.1 TCG Opal 2.0(6) • Sanitize(6)

(1) 1 GB = 1,000,000,000 bytes.

(2) Sequential Performance is based on FIO on Linux, 128K, with QD=32, 1 worker, and test drive set as secondary.

(3) Random Performance is based on FIO on Linux, 4K data size, QD=32, 1 worker, 4K aligned.

(4) Power consumption is measured during the sequential read/write and random read/write operations performed by iometer with the conditions described in (2)(3).

(5) The results of DWPD are obtained in compliance with JESD219A Standards.



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