

ENTERPRISE D-SERIES

FEATURE-RICH PCIe GEN 5

ENTERPRISE STORAGE

SOLUTIONS

MiPhi's newest large capacity enterprise SSD D200V is a read-intensive data center SSD which achieves an impressive 122TB per drive, making it the best alternative to traditional cold storage solutions HDDs. It only takes one D200V SSD to store the data that would require ten HDDs. Built with PCIe Gen5 interface and paired with the industry's latest 3D NAND technology, the D200V delivers performance up to 14,700 MB/s (sequential read) and 3,000K IOPS (random read). In an era of exponential data growth, the D200V will help drive the trend of efficient data storage with improved space utilization and reduced power consumption.



- PCIe 5.0 1x4 / 2x2 (Dual port)
- NVMe 2.0
- Capacity up to 61.44TB
- Form Factor: U.2, E3.S, E3.L
- DWPD: 0.3
- 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

KEY FEATURES	
Interface	PCIe 5.0 2x2 (Dual Port)
NAND Flash	3D TLC
DWPD	0
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 14,700 MB/s

Read 3,000K MB/s

Random Performance

Read 3,000K IOPS

Write 34K IOPS

MP-D200V Specifications

U.2			
	Capacity	3072GB	6144GB
Performance	Seq Read	14,700 MB/s	14,700 MB/s
	Seq Write	3,000 MB/s	3,000 MB/s
	Random Read	3,000K IOPS	3,000K IOPS
	Random Write	34K IOPS	34K IOPS
Power Consumption	Max	25 W	25 W
	Idle	5 W	5 W
Latency	Read Latency	110 us	110 us
	Write Latency	12 us	12 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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MP-D200V Specifications

E3.S		
	Capacity	3072GB
Performance	Seq Read	14,700 MB/s
	Seq Write	3,000 MB/s
	Random Read	3,000K IOPS
	Random Write	34K IOPS
Power Consumption	Max	25 W
	Idle	5 W
Latency	Read Latency	110 us
	Write Latency	12 us

KEY FEATURES	
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MP-D200V Specifications

E3.L		
	Capacity	6144GB
Performance	Seq Read	14,700 MB/s
	Seq Write	3,000 MB/s
	Random Read	3,000K IOPS
	Random Write	34K IOPS
Power Consumption	Max	25 W
	Idle	5 W
Latency	Read Latency	110 us
	Write Latency	12 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)

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