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ENTERPRISE X-SERIES

PCIe Gen5 Enterprise SSD Optimized for Modern Workloads

MAISTORAGE MX202

Sequential Read

Up to 14,500 MB/s

Sequential Write

Up to 12,000 MB/s

Random Read

Up to 3,300K IOPS

Random Write

Up to 1,100K IOPS

Interface

PCIe 5.0 1x4 (Single port), 2x2 (Dual port)

Capacity

Up to 15.36TB

Form Factor

U.2

DWPD

1, 3

Product Features

- NVMe 2.0d
- OCP Datacenter NVMe® SSD Specification V2.0
- OCP V2.6 Telemetry features
- 128 Namespaces
- Power Loss Protection (PLP)
- ISE, TCG Opal 2.02 support
- AES-XTS 256-bit Encryption
- Data Integrity and Protection
- End-to-End Data Path Protection
- SECDED
- Sanitize
- NVMe-MI (Management Interface) Rev 1.2
- SMBus

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Solution – MX202P

Form Factor U.2			
Capacity[1]	3.84TB	7.68TB	15.36 TB
Interface	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2
NVMe	2.0d	2.0d	2.0d
NAND Flash	3D TLC	3D TLC	3D TLC
Performance[2,3,4]			
Sequential Read (MB/s)	14,500	14,500	14,500
Sequential Write (MB/s)	6,200	11,300	12,000
4K Random Read (IOPS)	3,200K	3,300K	3,300K
4K Random Write (IOPS)	300K	580K	700K
Random Read Latency (Typ., µs)	55	55	55
Random Write Latency (Typ., µs)	7	7	7
Power Consumption [5]			
Active (W)	≤25	≤25	≤25
Idle (W)	≤5	≤5	≤5
Endurance/Reliability			
DWPD[6]	1	1	1
UBER	< 1 sector per 10^{18} bits read	< 1 sector per 10^{18} bits read	< 1 sector per 10^{18} bits read
MTBF (million hours)	2.5	2.5	2.5
Limited Warranty (years)	5	5	5
Temperature			
Operating Temp. (°C)	0 - 70	0 - 70	0 - 70
Non-Operating Temp. (°C)	-40 - 85	-40 - 85	-40 - 85
Physical Dimension			
Length (mm)	100.10 ± 0.3	100.10 ± 0.3	100.10 ± 0.3
Width (mm)	69.85 ± 0.25	69.85 ± 0.25	69.85 ± 0.25
Height (mm)	14.70 ± 0.2	14.70 ± 0.2	14.70 ± 0.2
Weight (g)	≤201	≤201	≤201
Part Number			
Single Port ISE FW	XP208Y003T84P324T091M	XP208Y007T68P328T191M	XP208Y0015T3P3216T31M
Single Port SED FW	XP208Y003T84P224T091M	XP208Y007T68P228T191M	XP208Y0015T3P2216T31M
Single Port Non-SED FW	XP208Y003T84P024T091M	XP208Y007T68P028T191M	XP208Y0015T3P0216T31M
Dual Port ISE FW	XX208Y003T84P324T091M	XX208Y007T68P328T191M	XX208Y0015T3P3216T31M
Dual Port SED FW	XX208Y003T84P224T091M	XX208Y007T68P228T191M	XX208Y0015T3P2216T31M
Dual Port Non-SED FW	XX208Y003T84P024T091M	XX208Y007T68P028T191M	XX208Y0015T3P0216T31M

(1) 1 TB = 10^{12} bytes.
(2) Sequential Performance is based on FIO on Linux, 512KB data size, with QD=32, 1 job.
(3) Random Performance is based on FIO on Linux, 4KB data size, QD=128, 8 jobs.
(4) Latency is measured with random workloads based on FIO on Linux, 4KB data size, QD=1, 1 job.
(5) Power consumption (average RMS) is measured during the sequential read/write and random read/write operations performed by iometer with the conditions described in (2) and (3).
(6) The results of DWPD are obtained in compliance with JESD219A standards.

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Performance numbers may vary based on system configuration and testing conditions.
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Solution – MX202E

Form Factor U.2			
Capacity[1]	3.2TB	6.4TB	12.8TB
Interface	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2
NVMe	2.0d	2.0d	2.0d
NAND Flash	3D TLC	3D TLC	3D TLC
Performance[2,3,4]			
Sequential Read (MB/s)	14,500	14,500	14,500
Sequential Write (MB/s)	6,200	11,300	12,000
4K Random Read (IOPS)	3,200K	3,300K	3,300K
4K Random Write (IOPS)	600K	1,050K	1,100K
Random Read Latency (Typ., µs)	55	55	55
Random Write Latency (Typ., µs)	7	7	7
Power Consumption [5]			
Active (W)	≤25	≤25	≤25
Idle (W)	≤5	≤5	≤5
Endurance/Reliability			
DWPD[6]	3	3	3
UBER	< 1 sector per 10^{18} bits read	< 1 sector per 10^{18} bits read	< 1 sector per 10^{18} bits read
MTBF (million hours)	2.5	2.5	2.5
Limited Warranty (years)	5	5	5
Temperature			
Operating Temp. (°C)	0 - 70	0 - 70	0 - 70
Non-Operating Temp. (°C)	-40 - 85	-40 - 85	-40 - 85
Physical Dimension			
Length (mm)	100.10 ± 0.3	100.10 ± 0.3	100.10 ± 0.3
Width (mm)	69.85 ± 0.25	69.85 ± 0.25	69.85 ± 0.25
Height (mm)	14.70 ± 0.2	14.70 ± 0.2	14.70 ± 0.2
Weight (g)	≤201	≤201	≤201
Part Number			
Single Port ISE FW	XP208Y003T20E324T091M	XP208Y006T40E328T191M	XP208Y0012T8E3216T31M
Single Port SED FW	XP208Y003T20E224T091M	XP208Y006T40E228T191M	XP208Y0012T8E2216T31M
Single Port Non-SED FW	XP208Y003T20E024T091M	XP208Y006T40E028T191M	XP208Y0012T8E0216T31M
Dual Port ISE FW	XX208Y003T20E324T091M	XX208Y006T40E328T191M	XX208Y0012T8E3216T31M
Dual Port SED FW	XX208Y003T20E224T091M	XX208Y006T40E228T191M	XX208Y0012T8E2216T31M
Dual Port Non-SED FW	XX208Y003T20E024T091M	XX208Y006T40E028T191M	XX208Y0012T8E0216T31M

(1) 1 TB = 10^{12} bytes.
(2) Sequential Performance is based on FIO on Linux, 512KB data size, with QD=32, 1 job.
(3) Random Performance is based on FIO on Linux, 4KB data size, QD=128, 8 jobs.
(4) Latency is measured with random workloads based on FIO on Linux, 4KB data size, QD=1, 1 job.
(5) Power consumption (average RMS) is measured during the sequential read/write and random read/write operations performed by iometer with the conditions described in (2) and (3).
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