



ENTERPRISE X-SERIES

High-Endurance PCIe Gen5 Enterprise SSD for Write-Intensive Applications

PASCARI X200Z

Sequential Read

Up to 14,800 MB/s

Sequential Write

Up to 9,500 MB/s

Random Read

Up to 3,100K IOPS

Random Write

Up to 950K IOPS

Interface

PCIe 5.0 2x2 (Dual port)

Capacity

Up to 6.4TB

Form Factor

U.2

DWPD

60



Product Features

- NVMe 2.0
- 128 Namespaces
- Power Loss Protection (PLP)
- ISE support
- AES-XTS 256-bit Encryption
- Data Integrity and Protection
- End-to-End Data Path Protection
- Metadata Protection
- SECDED
- Sanitize
- NVMe-MI (Management Interface)
- SMBus

PHISON

Solution - X200Z

Form Factor U.2				
Capacity ⁽¹⁾	800GB	1.6TB	3.2TB	6.4TB
Interface	PCIe 5.0 2x2	PCIe 5.0 2x2	PCIe 5.0 2x2	PCIe 5.0 2x2
NVMe	2.0	2.0	2.0	2.0
NAND Flash	3D pSLC	3D pSLC	3D pSLC	3D pSLC
Performance ^(2,3,4)				
Sequential Read (MB/s)	14,800	14,800	14,800	14,800
Sequential Write (MB/s)	9,500	9,500	9,500	9,000
4K Random Read (IOPS)	3,100K	3,100K	2,800K	2,300K
4K Random Write (IOPS)	950K	950K	950K	950K
Random Read Latency (Typ., µs)	45	45	45	45
Random Write Latency (Typ., µs)	10	10	10	10
Power Consumption ⁽⁵⁾				
Active (W)	18	19	20	22
Idle (W)	5	5	5	5
Endurance/Reliability				
DWPD ⁽⁶⁾	60	60	60	60
UBER	< 1 sector per 10 ¹⁸ bits read	< 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	2.5
Limited Warranty (years)	5	5	5	5
Temperature				
Operating Temp. (°C)	0 - 70	0 - 70	0 - 70	0 - 70
Non-Operating Temp. (°C)	-40 - 85	-40 - 85	-40 - 85	-40 - 85
Physical Dimension				
Length (mm)	100.10	100.10	100.10	100.10
Width (mm)	69.85	69.85	69.85	69.85
Height (mm)	15.00	15.00	15.00	15.00
Weight (g)	199	201	168	169
Part Number				
Dual Port ISE FW	XX208H02800GZ3 24T0900	XX208H021T60Z3 28T1900	XX208H023T20Z3 116T300	XX208H026T40Z3 132T700

(1) 1 TB = 10¹² 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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