



ENTERPRISE X-SERIES

Engineered for the World's Fastest Data

PASCARI X201

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 1,050K IOPS

Interface

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

Capacity

Up to 30.72 TB

Form Factor

U.2, E3.S

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

Solution - X201E

Form Factor U.2 15mm		
Capacity ⁽¹⁾	12.8 TB	25.6 TB
Interface	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2
NVMe	2.0	2.0
NAND Flash	3D TLC	3D TLC
Performance ^(2,3,4)		
Sequential Read (MB/s)	14,500	14,500
Sequential Write (MB/s)	12,000	10,500
4K Random Read (IOPS)	3,300K	2,800K
4K Random Write (IOPS)	1,050K	920K
Read Latency (Typ., µs)	TBD	TBD
Write Latency (Typ., µs)	TBD	TBD
Power Consumption ⁽⁵⁾		
Active (W)	<25	<25
Idle (W)	TBD	TBD
Endurance/Reliability		
DWPD ⁽⁶⁾	3	3
UBER	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read
MTBF (million hours)	2.5	2.5
Limited Warranty (years)	5	5
Temperature		
Operating Temp. (°C)	0 - 70	0 - 70
Non-Operating Temp. (°C)	-40 - 85	-40 - 85
Physical Dimension		
Length (mm)	100.10	100.10
Width (mm)	69.85	69.85
Height (mm)	15.00	15.00
Weight (g)	<250	<250
Part Number		
Single Port ISE FW	XP208H0815T3P3216T310	XP208H0830T7P3232T710
Single Port SED FW	XP208H0815T3P2216T310	XP208H0830T7P2232T710
Single Port Non-SED FW	XP208H0815T3P0216T310	XP208H0830T7P0232T710
Dual Port ISE FW	XX208H0815T3P3216T310	XX208H0830T7P3232T710
Dual Port SED FW	XX208H0815T3P2216T310	XX208H0830T7P2232T710
Dual Port Non-SED FW	XX208H0815T3P0216T310	XX208H0830T7P0232T710

(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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Solution - X201E

Form Factor E3.S 1T		
Capacity ⁽¹⁾	12.8 TB	25.6 TB
Interface	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2
NVMe	2.0	2.0
NAND Flash	3D TLC	3D TLC
Performance ^(2,3,4)		
Sequential Read (MB/s)	14,500	14,500
Sequential Write (MB/s)	12,000	10,500
4K Random Read (IOPS)	3,300K	2,800K
4K Random Write (IOPS)	1,050K	920K
Read Latency (Typ., µs)	TBD	TBD
Write Latency (Typ., µs)	TBD	TBD
Power Consumption ⁽⁵⁾		
Active (W)	<25	<25
Idle (W)	TBD	TBD
Endurance/Reliability		
DWPD ⁽⁶⁾	3	3
UBER	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read
MTBF (million hours)	2.5	2.5
Limited Warranty (years)	5	5
Temperature		
Operating Temp. (°C)	0 - 70	0 - 70
Non-Operating Temp. (°C)	-40 - 85	-40 - 85
Physical Dimension		
Length (mm)	112.75	112.75
Width (mm)	76.00	76.00
Height (mm)	7.50	7.50
Weight (g)	<150	<150
Part Number		
Single Port ISE FW	XP20DH0812T8E3116T310	XP20DH0825T6E3132T710
Single Port SED FW	XP20DH0812T8E2116T310	XP20DH0825T6E2132T710
Single Port Non-SED FW	XP20DH0812T8E0116T310	XP20DH0825T6E0132T710
Dual Port ISE FW	XX20DH0812T8E3116T310	XX20DH0825T6E3132T710
Dual Port SED FW	XX20DH0812T8E2116T310	XX20DH0825T6E2132T710
Dual Port Non-SED FW	XX20DH0812T8E0116T310	XX20DH0825T6E0132T710

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Solution - X201P

Form Factor U.2 15mm		
Capacity ⁽¹⁾	15.36 TB	30.72 TB
Interface	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2
NVMe	2.0	2.0
NAND Flash	3D TLC	3D TLC
Performance ^(2,3,4)		
Sequential Read (MB/s)	14,500	14,500
Sequential Write (MB/s)	12,000	10,500
4K Random Read (IOPS)	3,300K	2,800K
4K Random Write (IOPS)	600K	480K
Read Latency (Typ., µs)	TBD	TBD
Write Latency (Typ., µs)	TBD	TBD
Power Consumption ⁽⁵⁾		
Active (W)	<25	<25
Idle (W)	TBD	TBD
Endurance/Reliability		
DWPD ⁽⁶⁾	3	3
UBER	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read
MTBF (million hours)	2.5	2.5
Limited Warranty (years)	5	5
Temperature		
Operating Temp. (°C)	0 - 70	0 - 70
Non-Operating Temp. (°C)	-40 - 85	-40 - 85
Physical Dimension		
Length (mm)	100.10	100.10
Width (mm)	69.85	69.85
Height (mm)	15.00	15.00
Weight (g)	<250	<250
Part Number		
Single Port ISE FW	XP208H0815T3P3216T310	XP208H0830T7P3232T710
Single Port SED FW	XP208H0815T3P2216T310	XP208H0830T7P2232T710
Single Port Non-SED FW	XP208H0815T3P0216T310	XP208H0830T7P0232T710
Dual Port ISE FW	XX208H0815T3P3216T310	XX208H0830T7P3232T710
Dual Port SED FW	XX208H0815T3P2216T310	XX208H0830T7P2232T710
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Solution - X201P

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Power Consumption ⁽⁵⁾		
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Temperature		
Operating Temp. (°C)	0 - 70	0 - 70
Non-Operating Temp. (°C)	-40 - 85	-40 - 85
Physical Dimension		
Length (mm)	112.75	112.75
Width (mm)	76.00	76.00
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Single Port SED FW	XP20DH0815T3P2116T310	XP20DH0830T7P2132T710
Single Port Non-SED FW	XP20DH0815T3P0116T310	XP20DH0830T7P0132T710
Dual Port ISE FW	XX20DH0815T3P3116T310	XX20DH0830T7P3132T710
Dual Port SED FW	XX20DH0815T3P2116T310	XX20DH0830T7P2132T710
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