

ENTERPRISE X-SERIES

Unrivaled Performance & Low Power Consumption Gen4 SSD

PASCARI X100

Sequential Read

Up to 7,400 MB/s

Sequential Write

Up to 7,000 MB/s

Random Read

Up to 1,750K IOPS

Random Write

Up to 490K IOPS

Interface

PCle 4.0 1x4 (Single port), 2x2 (Dual port)

Capacity

Up to 30.72TB

Form Factor

U.2/U.3⁽²⁾

DWPD

1,3



Product Features

- NVMe 1.4
- 64 Namespaces
- Power Loss Protection (PLP)
- TCG Opal 2.0 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



Solution - X100E

Form Factor U.2/U.3 ⁽²⁾								
Capacity ⁽¹⁾	1.6TB	3.2TB	6.4TB	12.8TB	25.6TB			
Interface	PCle 4.0 1x4, 2x2	PCIe 4.0 1x4, 2x2						
NVMe	1.4	1.4	1.4	1.4	1.4			
NAND Flash	3D TLC							
Performance ^(3,4,5)								
Sequential Read (MB/s)	7,400	7,400	7,400	7,400	7,400			
Sequential Write (MB/s)	3,600	6,900	7,000	7,000	6,000			
4K Random Read (IOPS)	1,750K	1,750K	1,750K	1,750K	1,750K			
4K Random Write (IOPS)	300K	460K	460K	490K	470K			
Read Latency (Typ., μs)	70	70	70	70	70			
Write Latency (Typ., μs)	7	7	7	7	7			
Power Consumption (6)								
Active (W)	13	18	19	21	20			
Idle (W)	5.5	5.8	5.9	7.4	8.0			
Endurance/Reliability								
DWPD ⁽⁷⁾	3	3	3	3	3			
UBER	< 1 sector per 10 ¹⁸ bits read							
MTBF (million hours)	2.5	2.5	2.5	2.5	2.5			
Limited Warranty (years)	5	5	5	5	5			
		Temperature						
Operating Temp. (°C)	0 - 70	0 - 70	0 - 70	0 - 70	0 - 70			
Non-Operating Temp. (°C)	-40 - 85	-40 - 85	-40 - 85	-40 - 85	-40 - 85			
		Physical Dimens	ion					
Length (mm)	100.10	100.10	100.10	100.10	100.10			
Width (mm)	69.85	69.85	69.85	69.85	69.85			
Height (mm)	15.00	15.00	15.00	15.00	15.00			
Weight (g)	198	200	203	205	208			
Part Number								
Single Port Non-SED FW	XP106H011T60E0 22T0400	XP106H013T20E0 24T0900	XP106H016T40E0 28T1900	XP106H0012T8E0 116T300	XP106H0025T6E0 132T700			
Single Port SED FW	XP106H011T60E2 22T0400	XP106H013T20E2 24T0900	XP106H016T40E2 28T1900	XP106H0012T8E2 116T300	XP106H0025T6E2 132T700			
Dual Port Non-SED FW	XX106H011T60E0 22T0400	XX106H013T20E0 24T0900	XX106H016T40E0 28T1900	XX106H0012T8E0 116T300	XX106H0025T6E0 132T700			
Dual Port SED FW	XX106H011T60E2 22T0400	XX106H013T20E2 24T0900	XX106H016T40E2 28T1900	XX106H0012T8E2 116T300	XX106H0025T6E2 132T700			



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^{(1) 1} TB = 10¹² bytes.
(2) U.3 form factor support is available through custom configurations for qualified OEM customers upon request.
(3) Sequential Performance is based on FIO on Linux, 512KB data size, with QD=32, 1 job.
(4) Random Performance is based on FIO on Linux, 4KB data size, QD=128, 8 jobs.
(5) Latency is measured with random workloads based on FIO on Linux, 4KB data size, QD=1, 1 job.
(6) 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).
(7) The results of DWPD are obtained in compliance with JESD219A standards.

Solution - X100P

Form Factor U.2/U.3 ⁽²⁾									
Capacity ⁽¹⁾	1.92TB	3.84TB	7.68TB	15.36TB	30.72TB				
Interface	PCle 4.0 1x4, 2x2	PCle 4.0 1x4, 2x2	PCIe 4.0 1x4, 2x2	PCIe 4.0 1x4, 2x2	PCIe 4.0 1x4, 2x2				
NVMe	1.4	1.4	1.4	1.4	1.4				
NAND Flash	3D TLC								
Performance ^(3,4,5)									
Sequential Read (MB/s)	7,400	7,400	7,400	7,400	7,400				
Sequential Write (MB/s)	3,600	6,900	7,000	7,000	6,000				
4K Random Read (IOPS)	1,750K	1,750K	1,750K	1,750K	1,750K				
4K Random Write (IOPS)	126K	195K	190K	210K	210K				
Read Latency (Typ., μs)	70	70	70	70	70				
Write Latency (Typ., μs)	7	7	7	7	7				
Power Consumption (6)									
Active (W)	13	18	19	20	21				
Idle (W)	5.4	5.6	5.8	7.3	8.6				
	Endurance/Reliability								
DWPD ⁽⁷⁾	1	1	1	1	1				
UBER	< 1 sector per 10 ¹⁸ bits read								
MTBF (million hours)	2.5	2.5	2.5	2.5	2.5				
Limited Warranty (years)	5	5	5	5	5				
		Temperature							
Operating Temp. (°C)	0 - 70	0 - 70	0 - 70	0 - 70	0 - 70				
Non-Operating Temp. (°C)	-40 - 85	-40 - 85	-40 - 85	-40 - 85	-40 - 85				
	Physical Dimension								
Length (mm)	100.10	100.10	100.10	100.10	100.10				
Width (mm)	69.85	69.85	69.85	69.85	69.85				
Height (mm)	15.00	15.00	15.00	15.00	15.00				
Weight (g)	198	200	203	205	208				
Part Number									
Single Port Non-SED FW	XP106H011T92P0 22T0400	XP106H013T84P0 24T0900	XP106H017T68P0 28T1900	XP106H0015T3P0 116T300	XP106H0030T7P0 132T700				
Single Port SED FW	XP106H011T92P2 22T0400	XP106H013T84P2 24T0900	XP106H017T68P2 28T1900	XP106H0015T3P2 116T300	XP106H0030T7P2 132T700				
Dual Port Non-SED FW	XX106H011T92P0 22T0400	XX106H013T84P0 24T0900	XX106H017T68P0 28T1900	XX106H0015T3P0 116T300	XX106H0030T7P0 132T700				
Dual Port SED FW	XX106H011T92P2 22T0400	XX106H013T84P2 24T0900	XX106H017T68P2 28T1900	XX106H0015T3P2 116T300	XX106H0030T7P2 132T700				



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