



ENTERPRISE D-SERIES

Ultra High Capacity PCIe Gen5 Data Center SSD to Reduce OPEX Costs

PASCARI D205V

Sequential Read

Up to 14,000 MB/s

Sequential Write

Up to 3,300 MB/s

Random Read

Up to 2,600K IOPS (4K)

Random Write

Up to 35K IOPS (16K)

Interface

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

Capacity

Up to 122.88 TB

Form Factor

U.2, E3.S, E3.L

DWPD

0.3



Product Features

- NVMe 2.0
- OCP Datacenter NVMe[®] SSD Specification V2.0
- 128 Namespaces
- Power Loss Protection (PLP)
- ISE, 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

PHISON

Solutions - D205V

Form Factor U.2				
Capacity ⁽¹⁾	15.36TB	30.72TB	61.44TB	122.88TB
Interface	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2
NVMe	2.0	2.0	2.0	2.0
NAND Flash	3D QLC	3D QLC	3D QLC	3D QLC
Performance ^(2,3,4)				
Sequential Read (MB/s)	14,000	14,000	14,000	14,000
Sequential Write (MB/s)	2,100	2,000	3,300	3,300
4K Random Read (IOPS)	2,600K	2,600K	2,600K	2,600K
16K Random Write (IOPS)	35K	35K	35K	35K
Read Latency (Typ., us)	110	110	110	110
Write Latency (Typ., us)	30	30	30	30
Power Consumption ⁽⁵⁾				
Active (W)	25	25	25	25
Idle (W)	5	5	5	5
Endurance/Reliability				
DWPD ⁽⁶⁾	0.3	0.3	0.3	0.3
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)	185	197	161	194
Part Number				
Single Port ISE FW	DP20JK0C15T3V3216T310	DP20JK0C30T7V3232T710	DP20JK0C61T4V3265T510	DP20JK0D122TV32131T10
Single Port SED FW	DP20JK0C15T3V2216T310	DP20JK0C30T7V2232T710	DP20JK0C61T4V2265T510	DP20JK0D122TV22131T10
Dual Port ISE FW	DX20JK0C15T3V3216T310	DX20JK0C30T7V3232T710	DX20JK0C61T4V3265T510	DX20JK0D122TV32131T10
Dual Port SED FW	DX20JK0C15T3V2216T310	DX20JK0C30T7V2232T710	DX20JK0C61T4V2265T510	DX20JK0D122TV22131T10

(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, random read 4KB data size, random write 16KB 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)(3).

(6) The results of DWPD are obtained in compliance with JESD219A standards.



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Solutions - D205V

Form Factor E3.S		
Capacity ⁽¹⁾	30.72TB	61.44TB
Interface	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2
NVMe	2.0	2.0
NAND Flash	3D QLC	3D QLC
Performance ^(2,3,4)		
Sequential Read (MB/s)	14,000	14,000
Sequential Write (MB/s)	2,000	3,300
4K Random Read (IOPS)	2,600K	2,600K
16K Random Write (IOPS)	35K	35K
Read Latency (Typ., us)	110	110
Write Latency (Typ., us)	30	30
Power Consumption ⁽⁵⁾		
Active (W)	25	25
Idle (W)	5	5
Endurance/Reliability		
DWPD ⁽⁶⁾	0.3	0.3
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)	120	120
Part Number		
Single Port ISE FW	DP20KK0C30T7V3132T710	DP20KK0D61T4V3165T510
Single Port SED FW	DP20KK0C30T7V2132T710	DP20KK0D61T4V2165T510
Dual Port ISE FW	DX20KK0C30T7V3132T710	DX20KK0D61T4V3165T510
Dual Port SED FW	DX20KK0C30T7V2132T710	DX20KK0D61T4V2165T510

(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, random read 4KB data size, random write 16KB 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)(3).

(6) The results of DWPD are obtained in compliance with JESD219A standards.



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Solutions - D205V

Form Factor E3.L	
Capacity ⁽¹⁾	122.88TB
Interface	PCIe 5.0 1x4, 2x2
NVMe	2.0
NAND Flash	3D QLC
Performance ^(2,3,4)	
Sequential Read (MB/s)	14,000
Sequential Write (MB/s)	3,300
4K Random Read (IOPS)	2,600K
16K Random Write (IOPS)	35K
Read Latency (Typ., us)	110
Write Latency (Typ., us)	30
Power Consumption ⁽⁵⁾	
Active (W)	25
Idle (W)	5
Endurance/Reliability	
DWPD ⁽⁶⁾	0.3
UBER	< 1 sector per 10 ¹⁸ bits read
MTBF (million hours)	2.5
Limited Warranty (years)	5
Temperature	
Operating Temp. (°C)	0 - 70
Non-Operating Temp. (°C)	-40 - 85
Physical Dimension	
Length (mm)	142.20
Width (mm)	76.00
Height (mm)	7.50
Weight (g)	162
Part Number	
Single Port ISE FW	DP20LK0D122TV31131T10
Single Port SED FW	DP20LK0D122TV21131T10
Dual Port ISE FW	DX20LK0D122TV31131T10
Dual Port SED FW	DX20LK0D122TV21131T10

(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, random read 4KB data size, random write 16KB 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)(3).

(6) The results of DWPD are obtained in compliance with JESD219A standards.



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