

ENTERPRISE D-SERIES

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

PASCARI D206V**Sequential Read****Up to 14,000MB/s****Sequential Write****Up to 3,400MB/s****Random Read****Up to 2,625K IOPS****Random Write****Up to 40K IOPS****Interface****PCIe Gen5 x4****Capacity****Up to 122880GB****Form Factor****E1.L, E3.S, E3.L, U.2****DWPD****0.3****Product Features**

- Power Loss Protection (PLP)
- TCG Opal 2.0 Support
- AES-XTS 256-bit Encryption
- End-to-End Data Path Protection
- Multiple Namespaces

Solutions – D206V (E1.L)

Form Factor E1.L	
Capacity ¹	122.88TB
Interface	PCIe Gen 5 x4
NAND Flash	3D QLC
Performance ²³⁴	
Sequential Read (MB/s)	14000
Sequential Write (MB/s)	3400
4K Random Read (IOPS)	2625K
4K Random Write (IOPS)	40K
Read Latency (Typ., µs)	110
Write Latency (Typ., µs)	40
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)	318.75
Width (mm)	38.40
Height (mm)	9.50
Weight (g)	-
Part Number	
Single Port – ISE	DP20MM01122TV32131T10
Single Port – SED	DP20MM01122TV22131T10
Dual Port – ISE	DX20MM01122TV32131T10
Dual Port – SED	DX20MM01122TV22131T10

(1) 1 GB = 10⁹ bytes.

(2) Sequential Performance is based on FIO on Linux, 128KB data size, with QD=32, 1 job.

(3) Random Performance is based on FIO on Linux, 4KB data size, QD=32.

(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 sequential and random read/write operations.

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



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Solutions – D206V (E3.S)

Form Factor E3.S		
Capacity ¹	30.72TB	61.44TB
Interface	PCIe Gen 5 x4	PCIe Gen 5 x4
NAND Flash	3D QLC	3D QLC
Performance ²³⁴		
Sequential Read (MB/s)	14000	14000
Sequential Write (MB/s)	3400	3400
4K Random Read (IOPS)	2625K	2625K
4K Random Write (IOPS)	40K	40K
Read Latency (Typ., µs)	110	110
Write Latency (Typ., µs)	40	40
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)	7.45	7.45
Weight (g)	-	-
Part Number		
Single Port – ISE	DP20KM0130T7V3132T710	DP20KM0161T4V3165T510
Single Port – SED	DP20KM0130T7V2132T710	DP20KM0161T4V2165T510
Dual Port – ISE	DX20KM0130T7V3132T710	DX20KM0161T4V3165T510
Dual Port – SED	DX20KM0130T7V2132T710	DX20KM0161T4V2165T510

- (1) 1 GB = 10⁹ bytes.
 (2) Sequential Performance is based on FIO on Linux, 128KB data size, with QD=32, 1 job.
 (3) Random Performance is based on FIO on Linux, 4KB data size, QD=32.
 (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 sequential and random read/write operations.
 (6) The results of DWPD are obtained in compliance with JESD219A standards.



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Solutions – D206V (E3.L)

Form Factor E3.L	
Capacity ¹	122880GB
Interface	PCIe Gen 5 x4
NAND Flash	3D QLC
Performance ²³⁴	
Sequential Read (MB/s)	14000
Sequential Write (MB/s)	3400
4K Random Read (IOPS)	2625K
4K Random Write (IOPS)	40K
Read Latency (Typ., µs)	110
Write Latency (Typ., µs)	40
Power Consumption ⁵	
Active (W)	< 30
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)	7.45
Weight (g)	-
Part Number	
Single Port – ISE	DP20LM01122TV31131T10
Single Port – SED	DP20LM01122TV21131T10
Dual Port – ISE	DX20LM01122TV31131T10
Dual Port – SED	DX20LM01122TV21131T10

(1) 1 GB = 10⁹ bytes.

(2) Sequential Performance is based on FIO on Linux, 128KB data size, with QD=32, 1 job.

(3) Random Performance is based on FIO on Linux, 4KB data size, QD=32.

(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 sequential and random read/write operations.

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



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Solutions – D206V (U.2)

Form Factor U.2			
Capacity ¹	30720GB	61440GB	122880GB
Interface	PCIe Gen 5 x4	PCIe Gen 5 x4	PCIe Gen 5 x4
NAND Flash	3D QLC	3D QLC	3D QLC
Performance ²³⁴			
Sequential Read (MB/s)	14000	14000	14000
Sequential Write (MB/s)	3400	3400	3400
4K Random Read (IOPS)	2625K	2625K	2625K
4K Random Write (IOPS)	40K	40K	40K
Read Latency (Typ., µs)	110	110	110
Write Latency (Typ., µs)	40	40	40
Power Consumption ⁵			
Active (W)	< 25	< 25	< 25
Idle (W)	≤5	≤5	≤5
Endurance/Reliability			
DWPD ⁶	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
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	100.10	100.10
Width (mm)	69.85	69.85	69.85
Height (mm)	14.65	14.65	14.65
Weight (g)	-	-	-
Part Number			
Single Port – ISE	DP20JM0130T7V3232T710	DP20JM0161T4V3265T510	DP20JM01122TV32131T10
Single Port – SED	DP20JM0130T7V2232T710	DP20JM0161T4V2265T510	DP20JM01122TV22131T10
Dual Port – ISE	DX20JM0130T7V3232T710	DX20JM0161T4V3265T510	DX20JM01122TV32131T10
Dual Port – SED	DX20JM0130T7V2232T710	DX20JM0161T4V2265T510	DX20JM01122TV22131T10

- (1) 1 GB = 10⁹ bytes.
(2) Sequential Performance is based on FIO on Linux, 128KB data size, with QD=32, 1 job.
(3) Random Performance is based on FIO on Linux, 4KB data size, QD=32.
(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 sequential and random read/write operations.
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