

Server SSD: DC-Series

DCN-200V: High Capacity PCIe Gen 5 Data Center Storage

Key Product Features

- Self-Encrypting Drive option
 TCG Opal 2.0 Support
 AES-XTS 256-bit Encryption
- End-to-End Data Path Protection
- Power Loss Protection (PLP)
- 128 Namespaces
- Single or Dual Port

Key Product Metrics	
Sequential Read	Up to 14,700 MB/s
Sequential Write	Up to 3,000 MB/s
Random Read	Up to 3,000K IOPS (4K)
Random Write	Up to 34K IOPS (16K)
Interface	PCIe Gen 5 NVMe 2.0
Capacity	Up to 61.44 TB
Form Factor	U.2, E3.S, and E3.L
Drive Write Per Day	0.3



DCN-200V

	Form Factor U.2		
Capacity ⁽²⁾	30.72TB	61.44TB	
Interface	PCIe 5.0 1x4, 2x2	PCle 5.0 1x4, 2x2	
NVMe	2.0	2.0	
NAND Flash	3D QLC	3D QLC	
Performance ^(3,4,5)			
Sequential Read (MB/s)	14,700	14,700	
Sequential Write (MB/s)	3,000	3,000	
4K Random Read (IOPS)	3,000K	3,000K	
16K Random Write (IOPS)	34K	34K	
Read Latency (Typ.,µs)	110	110	
Write Latency (Typ.µs)	12	12	
	Power Consumption (6)		
Active (W)	25	25	
Idle (W)	5	5	
	Endurance/Reliability		
DWPD ⁽⁷⁾	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)	100.10	100.10	
Width (mm)	69.85	69.85	
Height (mm)	15.00	15.00	
Weight (g)	TBD	TBD	

⁽¹⁾ The product is still in the early development stage, all values provided are based on estimation.



^{(2) 1} TB = 10^{12} bytes.

⁽³⁾ Sequential Performance is based on FIO on Linux, 128KB, with QD=32, 1 job.
(4) Random Performance is based on FIO on Linux, random read 4KB data size, random write 16KB data size, QD=128, 8 jobs.

⁽⁴⁾ Random Performance is based on FIO on Linux, random read 4NB data size, random wife 16NB data size, QD=128, 6 jobs.
(5) Latency is measured with random workloads based on FIO on Linux, 4NB 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)(3).
(7) The results of DWPD are obtained in compliance with JESD219A Standards.

Form Factor E3.S			
Capacity ⁽²⁾	30.72TB		
Interface	PCIe 5.0 1x4, 2x2		
NVMe	2.0		
NAND Flash	3D QLC		
Performance (3,4,5)			
Sequential Read (MB/s)	14,700		
Sequential Write (MB/s)	3,000		
4K Random Read (IOPS)	3,000K		
16K Random Write (IOPS)	34K		
Read Latency (Typ., μs)	110		
Write Latency (Typ., µs)	12		
	Power Consumption (6)		
Active (W)	25		
Idle (W)	5		
Endurance/Reliability			
DWPD ⁽⁷⁾	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)	112.75		
Width (mm)	76.00		
Height (mm)	7.50		
Weight (g)	TBD		

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(3) Sequential Performance is based on FIO on Linux, 128KB, with QD=32, 1 job.
(4) Random Performance is based on FIO on Linux, random read 4KB data size, random write 16KB 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)(3).

⁽⁷⁾ The results of DWPD are obtained in compliance with JESD219A Standards.

	Form Factor E3.S		
Capacity ⁽²⁾	61.44TB		
Interface	PCIe 5.0 1x4, 2x2		
NVMe	2.0		
NAND Flash	3D QLC		
Performance (3,4,5)			
Sequential Read (MB/s)	14,700		
Sequential Write (MB/s)	3,000		
4K Random Read (IOPS)	3,000K		
16K Random Write (IOPS)	34K		
Read Latency (Typ., µs)	110		
Write Latency (Typ., µs)	12		
Power Consumption ⁽⁶⁾			
Active (W)	25		
Idle (W)	5		
	Endurance/Reliability		
DWPD ⁽⁷⁾	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)	TBD		

⁽¹⁾ The product is still in the early development stage, all values provided are based on estimation.



^{(2) 1} TB = 10^{12} bytes.

⁽³⁾ Sequential Performance is based on FIO on Linux, 128KB, with QD=32, 1 job.

⁽⁴⁾ Random Performance is based on FIO on Linux, random read 4KB data size, random write 16KB 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)(3).

(7) The results of DWPD are obtained in compliance with JESD219A Standards.

For more information on available configurations, please contact us at: inquiries@rpics.com.

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