

ENTERPRISE D-SERIES

PCIe Gen5 Data Center Storage Solution in E1.S Form Factor

PASCARI D200P

Sequential Read**Up to 14000 MB/s****Sequential Write****Up to 8500 MB/s****Random Read****Up to 3200K IOPS****Random Write****Up to 420K IOPS****Interface****PCIe Gen5 x4****Capacity****Up to 7680GB****Form Factor****E1.S****DWPD****1****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 – D200P

Form Factor E1.S			
Capacity ¹	1920GB	3840GB	7680GB
Interface	PCIe Gen5 x4	PCIe Gen5 x4	PCIe Gen5 x4
NAND Flash	3D TLC	3D TLC	3D TLC
Performance ²³⁴			
Sequential Read (MB/s)	14000	14000	14000
Sequential Write (MB/s)	4200	8400	8500
4K Random Read (IOPS)	2350K	3300K	3200K
4K Random Write (IOPS)	140K	220K	420K
Read Latency (Typ., µs)	70	70	70
Write Latency (Typ., µs)	250	150	100
Power Consumption ⁵			
Active (W)	16	16	17
Idle (W)	4.9	4.9	4.9
Endurance/Reliability			
DWPD ⁶	1	1	1
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)	118.75	118.75	118.75
Width (mm)	33.75	33.75	33.75
Height (mm)	9.50	9.50	9.50
Weight (g)	80	80	100
Part Number			
Single Port – ISE	DP20AH031T92P312T0410	DP20AH033T84P314T0910	DP20BH037T68P318T1910
Single Port – SED	DP20AH031T92P212T0410	DP20AH033T84P214T0910	DP20BH037T68P218T1910

(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.



The data within this specification is subject to change by MiPhi without notice. Performance numbers may vary based on system configuration and testing conditions. Copyright © 2026 MiPhi Semiconductors Pvt Ltd. All rights reserved.

Find more information and resources at: miphi.in

ENTERPRISE D-SERIES

PCIe Gen5 Data Center Storage Solution in E1.S Form Factor

PASCARI D200E

Sequential Read**Up to 14000 MB/s****Sequential Write****Up to 8500 MB/s****Random Read****Up to 3200K IOPS****Random Write****Up to 880K IOPS****Interface****PCIe Gen5 x4****Capacity****Up to 6400GB****Form Factor****E1.S****DWPD****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 – D200E

Form Factor E1.S			
Capacity ¹	1600GB	3200GB	6400GB
Interface	PCIe Gen5 x4	PCIe Gen5 x4	PCIe Gen5 x4
NAND Flash	3D TLC	3D TLC	3D TLC
Performance ²³⁴			
Sequential Read (MB/s)	14000	14000	14000
Sequential Write (MB/s)	4200	8400	8500
4K Random Read (IOPS)	2350K	3300K	3200K
4K Random Write (IOPS)	390K	670K	880K
Read Latency (Typ., µs)	70	70	70
Write Latency (Typ., µs)	100	50	50
Power Consumption ⁵			
Active (W)	16	16	17
Idle (W)	4.9	4.9	4.9
Endurance/Reliability			
DWPD ⁶	3	3	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)	118.75	118.75	118.75
Width (mm)	33.75	33.75	33.75
Height (mm)	9.50	9.50	9.50
Weight (g)	80	80	100
Part Number			
Single Port – ISE	DP20AH031T60E312T0410	DP20AH033T20E314T0910	DP20BH036T40E318T1910
Single Port – SED	DP20AH031T60E212T0410	DP20AH033T20E214T0910	DP20BH036T40E218T1910

(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.



The data within this specification is subject to change by MiPhi without notice. Performance numbers may vary based on system configuration and testing conditions. Copyright © 2026 MiPhi Semiconductors Pvt Ltd. All rights reserved.

Find more information and resources at: miphi.in