



ENTERPRISE D-SERIES

Gen5 Performance in the Data Center's Most Efficient Form Factor

PASCARI D250P

Sequential Read

Up to 13,800 MB/s

Sequential Write

Up to 6,900 MB/s

Random Read

Up to 2,200K IOPS

Random Write

Up to 255K IOPS

Interface

PCIe 5.0 x4

Capacity

Up to 3.84TB

Form Factor

E1.S 9.5mm

DWPD

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Product Features

- NVMe 2.0
- OCP Datacenter NVMe[®] SSD Specification V2.6
- 64 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
- SECDED
- Sanitize
- NVMe-MI (Management Interface) Rev 1.2
- SMBus

Solution – D250P

Form Factor E1.S 9.5mm				
Capacity ⁽²⁾	480GB	960GB	1.92TB	3.84TB
Interface	PCIe 5.0 x4	PCIe 5.0 x4	PCIe 5.0 x4	PCIe 5.0 x4
NVMe	2.0	2.0	2.0	2.0
NAND Flash	3D TLC	3D TLC	3D TLC	3D TLC
Performance ^(3,4,5)				
Sequential Read (MB/s)	6,000	12,000	13,800	13,800
Sequential Write (MB/s)	850	1,700	3,500	6,900
4K Random Read (IOPS)	350K	700K	1,500K	2,200K
4K Random Write (IOPS)	30K	65K	155K	255K
Read Latency (Typ., µs)	60	60	60	60
Write Latency (Typ., µs)	25	15	10	10
Power Consumption ⁽⁶⁾				
Active (W)	<5	<8	<10	<15
Idle (W)	<5	<5	<5	<5
Endurance/Reliability				
DWPD ⁽⁷⁾	1	1	1	1
UBER	< 1 sector per 10 ¹⁷ bits read	< 1 sector per 10 ¹⁷ bits read	< 1 sector per 10 ¹⁷ bits read	< 1 sector per 10 ¹⁷ bits read
MTBF (million hours)	2.0	2.0	2.0	2.0
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)	118.75	118.75	118.75	118.75
Width (mm)	33.75	33.75	33.75	33.75
Height (mm)	9.50	9.50	9.50	9.50
Weight (g)	TBD	TBD	TBD	TBD
Part Number				
SED FW	D280AD0F480GP01 512G10	D280AD0F960GP01 1T0210	D280AD0F1T92P01 2T0410	D280AD0F3T84P01 4T0910
Non-SED FW	D280AD0F480GP21 512G10	D280AD0F960GP21 1T0210	D280AD0F1T92P21 2T0410	D280AD0F3T84P21 4T0910

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

(2) 1 TB = 10¹² bytes.

(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 (3) and(4).

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



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