



ENTERPRISE D-SERIES

Cloud-Scale Capacity Meets Gen5 Speed

PASCARI D201

Sequential Read

Up to 14,500 MB/s

Sequential Write

Up to 12,000 MB/s

Random Read

Up to 3,300K IOPS

Random Write

Up to 1,050K IOPS

Interface

PCIe 5.0 x4

Capacity

12.8 TB & 15.36 TB

Form Factor

E1.S 15mm

DWPD

1,3



Product Features

- NVMe 2.0d
- OCP Datacenter NVMe® SSD Specification V2.0
- OCP V2.6 Telemetry features
- 128 Namespaces
- Power Loss Protection (PLP)
- ISE, TCG Opal 2.02 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

PHISON

Solutions - D201E

Form Factor E1.S 15mm	
Capacity ⁽¹⁾	12.8 TB
Interface	PCIe 5.0 x4
NVMe	2.0d
NAND Flash	3D TLC
Performance ^(2,3)	
Sequential Read (MB/s)	14,500
Sequential Write (MB/s)	12,000
4K Random Read (IOPS)	3,300K
4K Random Write (IOPS)	1,050K
Power Consumption ⁽⁴⁾	
Active (W)	<25
Idle (W)	<5
Endurance/Reliability	
DWPD ⁽⁵⁾	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)	118.75
Width (mm)	33.75
Height (mm)	15
Weight (g)	<100
Part Number	
ISE FW	DP20BH0812T8E3116T310
SED FW	DP20BH0812T8E2116T310
Non-SED FW	DP20BH0812T8E0116T310

(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, 4KB data size, QD=128, 8 jobs.

(4) 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) and (3).

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



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Solutions - D201P

Form Factor E1.S 15mm	
Capacity ⁽¹⁾	15.36 TB
Interface	PCIe 5.0 x4
NVMe	2.0d
NAND Flash	3D TLC
Performance ^(2,3)	
Sequential Read (MB/s)	14,500
Sequential Write (MB/s)	12,000
4K Random Read (IOPS)	3,300K
4K Random Write (IOPS)	600K
Power Consumption ⁽⁴⁾	
Active (W)	<25
Idle (W)	<5
Endurance/Reliability	
DWPD ⁽⁵⁾	1
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)	118.75
Width (mm)	33.75
Height (mm)	15
Weight (g)	<100
Part Number	
ISE FW	DP20BH0815T3P3116T310
SED FW	DP20BH0815T3P2116T310
Non-SED FW	DP20BH0815T3P0116T310

(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, 4KB data size, QD=128, 8 jobs.

(4) 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) and (3).

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