



ENTERPRISE D-SERIES

# Cloud-Scale Capacity Meets Gen5 Speed

## PASCARI D201

### Sequential Read

Up to 14,800 MB/s

### Sequential Write

Up to 11,000 MB/s

### Random Read

Up to 3,300K IOPS

### Random Write

Up to 1,080K IOPS

### Interface

PCIe 5.0 1x4 (Single port), 2x2 (Dual port)

### Capacity

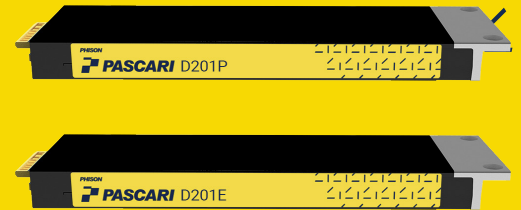
Up to 15.36TB

### Form Factor

E1.S 9.5mm, 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

# Solution – D201E

Form Factor E1.S				
Capacity <sup>(1)</sup>	1.6TB	3.2TB	6.4TB	12.8TB
Interface	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2
NVMe	2.0d	2.0d	2.0d	2.0d
NAND Flash	3D TLC	3D TLC	3D TLC	3D TLC
Performance <sup>(2,3,4)</sup>				
Sequential Read (MB/s)	14,800	14,800	14,800	14,800
Sequential Write (MB/s)	2,300	4,600	9,200	11,000
4K Random Read (IOPS)	1,400K	2,700K	3,300K	3,250K
4K Random Write (IOPS)	210K	490K	985K	1,080K
Read Latency (Typ., µs)	55	55	55	55
Write Latency (Typ., µs)	8	8	8	8
Power Consumption <sup>(5)</sup>				
Active (W)	≤25	≤25	≤25	≤25
Idle (W)	≤5	≤5	≤5	≤5
Endurance/Reliability				
DWPD <sup>(6)</sup>	3	3	3	3
UBER	< 1 sector per 10 <sup>18</sup> bits read	< 1 sector per 10 <sup>18</sup> bits read	< 1 sector per 10 <sup>18</sup> bits read	< 1 sector per 10 <sup>18</sup> bits read
MTBF (million hours)	2.5	2.5	2.5	2.5
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)	9.5 / 15	9.5 / 15	9.5 / 15	9.5 / 15
Weight (g)	≤100	≤100	≤100	≤100
Part Number				
Single Port ISE FW	9.5mm:DP20AH081T60E312T0410 15mm:DP20BH081T60E312T0410	9.5mm:DP20AH083T20E314T0910 15mm:DP20BH083T20E314T0910	9.5mm:DP20AH086T40E318T1910 15mm:DP20BH086T40E318T1910	DP20BH0812T8E3116T310
Single Port SED FW	9.5mm:DP20AH081T60E212T0410 15mm:DP20BH081T60E212T0410	9.5mm:DP20AH083T20E214T0910 15mm:DP20BH083T20E214T0910	9.5mm:DP20AH086T40E218T1910 15mm:DP20BH086T40E218T1910	DP20BH0812T8E2116T310
Single Port Non-SED FW	9.5mm:DP20AH081T60E012T0410 15mm:DP20BH081T60E012T0410	9.5mm:DP20AH083T20E014T0910 15mm:DP20BH083T20E014T0910	9.5mm:DP20AH086T40E018T1910 15mm:DP20BH086T40E018T1910	DP20BH0812T8E0116T310
Dual Port ISE FW	9.5mm:DX20AH081T60E312T0410 15mm:DX20BH081T60E312T0410	9.5mm:DX20AH083T20E314T0910 15mm:DX20BH083T20E314T0910	9.5mm:DX20AH086T40E318T1910 15mm:DX20BH086T40E318T1910	DX20BH0812T8E3116T310
Dual Port SED FW	9.5mm:DX20AH081T60E212T0410 15mm:DX20BH081T60E212T0410	9.5mm:DX20AH083T20E214T0910 15mm:DX20BH083T20E214T0910	9.5mm:DX20AH086T40E218T1910 15mm:DX20BH086T40E218T1910	DX20BH0812T8E2116T310
Dual Port Non-SED FW	9.5mm:DX20AH081T60E012T0410 15mm:DX20BH081T60E012T0410	9.5mm:DX20AH083T20E014T0910 15mm:DX20BH083T20E014T0910	9.5mm:DX20AH086T40E018T1910 15mm:DX20BH086T40E018T1910	DX20BH0812T8E0116T310

(1) 1 TB = 10<sup>12</sup> 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) 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 the sequential read/write and random read/write operations performed by iometer with the conditions described in (2) and (3).

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



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# Solution – D201P

Form Factor E1.S				
Capacity <sup>(1)</sup>	1.92TB	3.84TB	7.68TB	15.36 TB
Interface	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2
NVMe	2.0d	2.0d	2.0d	2.0d
NAND Flash	3D TLC	3D TLC	3D TLC	3D TLC
Performance <sup>(2,3,4)</sup>				
Sequential Read (MB/s)	14,800	14,800	14,800	14,800
Sequential Write (MB/s)	2,300	4,600	9,200	11,000
4K Random Read (IOPS)	1,400K	2,700K	3,300K	3,250K
4K Random Write (IOPS)	75K	230K	480K	600K
Read Latency (Typ., μs)	55	55	55	55
Write Latency (Typ., μs)	14	8	8	8
Power Consumption <sup>(5)</sup>				
Active (W)	≤25	≤25	≤25	≤25
Idle (W)	≤5	≤5	≤5	≤5
Endurance/Reliability				
DWPD <sup>(6)</sup>	1	1	1	1
UBER	< 1 sector per 10 <sup>18</sup> bits read	< 1 sector per 10 <sup>18</sup> bits read	< 1 sector per 10 <sup>18</sup> bits read	< 1 sector per 10 <sup>18</sup> bits read
MTBF (million hours)	2.5	2.5	2.5	2.5
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)	9.5 / 15	9.5 / 15	9.5 / 15	9.5 / 15
Weight (g)	≤100	≤100	≤100	≤100
Part Number				
Single Port ISE FW	9.5mm:DP20AH081T92P312T0410 15mm:DP20BH081T92P312T0410	9.5mm:DP20AH083T84P314T0910 15mm:DP20BH083T84P314T0910	9.5mm:DP20AH087T68P318T1910 15mm:DP20BH087T68P318T1910	DP20BH0815T3P3116T310
Single Port SED FW	9.5mm:DP20AH081T92P212T0410 15mm:DP20BH081T92P212T0410	9.5mm:DP20AH083T84P214T0910 15mm:DP20BH083T84P214T0910	9.5mm:DP20AH087T68P218T1910 15mm:DP20BH087T68P218T1910	DP20BH0815T3P2116T310
Single Port Non-SED FW	9.5mm:DP20AH081T92P012T0410 15mm:DP20BH081T92P012T0410	9.5mm:DP20AH083T84P014T0910 15mm:DP20BH083T84P014T0910	9.5mm:DP20AH087T68P018T1910 15mm:DP20BH087T68P018T1910	DP20BH0815T3P0116T310
Dual Port ISE FW	9.5mm:DX20AH081T92P312T0410 15mm:DX20BH081T92P312T0410	9.5mm:DX20AH083T84P314T0910 15mm:DX20BH083T84P314T0910	9.5mm:DX20AH087T68P318T1910 15mm:DX20BH087T68P318T1910	DX20BH0815T3P3116T310
Dual Port SED FW	9.5mm:DX20AH081T92P212T0410 15mm:DX20BH081T92P212T0410	9.5mm:DX20AH083T84P214T0910 15mm:DX20BH083T84P214T0910	9.5mm:DX20AH087T68P218T1910 15mm:DX20BH087T68P218T1910	DX20BH0815T3P2116T310
Dual Port Non-SED FW	9.5mm:DX20AH081T92P012T0410 15mm:DX20BH081T92P012T0410	9.5mm:DX20AH083T84P014T0910 15mm:DX20BH083T84P014T0910	9.5mm:DX20AH087T68P018T1910 15mm:DX20BH087T68P018T1910	DX20BH0815T3P0116T310

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