



ENTERPRISE B-SERIES

# Gen5 M.2 Boot Drive Storage Built for Faster Starts and Smarter Systems

PASCARI B200P

## 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 7.68TB

## Form Factor

M.2 2280

## DWPD

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## Product Features

- NVMe 2.0
- OCP Datacenter NVMe® SSD Specification V2.6
- 128 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

**PHISON**

## Solution – B200P

Form Factor M.2 2280					
Capacity <sup>(2)</sup>	480GB	960GB	1.92TB	3.84TB	7.68TB
Interface	PCIe 5.0 x4	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	2.0
NAND Flash	3D TLC	3D TLC	3D TLC	3D TLC	3D TLC
Performance <sup>(3,4,5)</sup>					
Sequential Read (MB/s)	6,000	12,000	13,800	13,800	13,800
Sequential Write (MB/s)	850	1,700	3,500	6,900	6,900
4K Random Read (IOPS)	350K	700K	1,500K	2,200K	2,200K
4K Random Write (IOPS)	30K	65K	155K	220K	255K
Read Latency (Typ., µs)	60	60	60	60	60
Write Latency (Typ., µs)	25	15	10	10	10
Power Consumption <sup>(6)</sup>					
Active (W)	4.1	6	6.6	8.9	<12
Idle (W)	2.5	2.5	2.5	2.5	2.5
Endurance/Reliability					
DWPD <sup>(7)</sup>	1	1	1	1	1
UBER	< 1 sector per 10 <sup>17</sup> bits read	< 1 sector per 10 <sup>17</sup> bits read	< 1 sector per 10 <sup>17</sup> bits read	< 1 sector per 10 <sup>17</sup> bits read	< 1 sector per 10 <sup>17</sup> bits read
MTBF (million hours)	2.0	2.0	2.0	2.0	2.0
Limited Warranty (years)	5	5	5	5	5
Temperature					
Operating Temp. (°C)	0 - 70	0 - 70	0 - 70	0 - 70	0 - 70
Non-Operating Temp. (°C)	-40 - 85	-40 - 85	-40 - 85	-40 - 85	-40 - 85
Physical Dimension					
Length (mm)	80.00	80.00	80.00	80.00	80.00
Width (mm)	22.00	22.00	22.00	22.00	22.00
Height (mm)	4.08	4.08	4.08	4.08	4.08
Weight (g)	TBD	TBD	TBD	TBD	TBD
Part Number					
SED FW	B2802D0F480GP01 512G10	B2802D0F960GP01 1T0210	B2802D0F1T92P01 2T0410	B2802D0F3T84P01 4T0910	B2802D0F7T68P01 8T1910
Non-SED FW	B2802D0F480GP21 512G10	B2802D0F960GP21 1T0210	B2802D0F1T92P21 2T0410	B2802D0F3T84P21 4T0910	B2802D0F7T68P21 8T1910

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

(2) 1 TB = 10<sup>12</sup> 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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