



ENTERPRISE B-SERIES

Ultimate M.2 Boot Drive for Servers and Workstations

PASCARI B100P

Sequential Read

Up to 5,000 MB/s

Sequential Write

Up to 1,300 MB/s

Random Read

Up to 600K IOPS

Random Write

Up to 45K IOPS

Interface

PCIe 4.0 x4

Capacity

Up to 1.92TB

Form Factor

M.2 2280

DWPD

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Product Features

- NVMe 1.4
- 64 Namespaces
- Power Loss Protection (PLP)
- 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)
- SMBus

PHISON

Solutions - B100P

Form Factor M.2 2280			
Capacity ⁽¹⁾	480GB	960GB	1.92TB
Interface	PCIe 4.0 x4	PCIe 4.0 x4	PCIe 4.0 x4
NVMe	1.4	1.4	1.4
NAND Flash	3D TLC	3D TLC	3D TLC
Performance ^(2,3,4)			
Sequential Read (MB/s)	3,500	5,000	5,000
Sequential Write (MB/s)	300	700	1,300
4K Random Read (IOPS)	210K	400K	600K
4K Random Write (IOPS)	15K	30K	45K
Read Latency (Typ., us)	90	90	90
Write Latency (Typ., us)	65	35	35
Power Consumption ⁽⁵⁾			
Active (W)	5.6	8.9	8.9
Idle (W)	3.5	3.5	3.5
Endurance/Reliability			
DWPD ⁽⁶⁾	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
MTBF (million hours)	2.0	2.0	2.0
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)	80.00	80.00	80.00
Width (mm)	22.00	22.00	22.00
Height (mm)	4.08	4.08	4.08
Weight (g)	12.3	12.4	12.4
Part Number			
Non-SED FW	B1802K00480GP01512G00	B1802K00960GP011T0200	B1802K001T92P012T0400
SED FW	B1802K00480GP21512G00	B1802K00960GP211T0200	B1802K001T92P212T0400

(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, 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)(3).

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



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