

ENTERPRISE B-SERIES

Ultimate M.2 Boot Drive for Servers and Workstations

PASCARI B200P

Sequential Read**Up to 13800 MB/s****Sequential Write****Up to 9000 MB/s****Random Read****Up to 2200K IOPS****Random Write****Up to 220K IOPS****Interface****PCIe Gen5 x4****Capacity****Up to 7680GB****Form Factor****M.2 2280****DWPD****1****Product Features**

- Power Loss Protection (PLP)
- TCG Opal 2.0 Support
- AES-XTS 256-bit Encryption
- End-to-End Data Path Protection
- Multiple Namespaces

Solutions – B200P

Form Factor M.2 2280					
Capacity ¹	480GB	960GB	1920GB	3840GB	7680GB
Interface	PCIe Gen5 x4	PCIe Gen5 x4	PCIe Gen5 x4	PCIe Gen5 x4	PCIe Gen5 x4
NAND Flash	3D TLC	3D TLC	3D TLC	3D TLC	3D TLC
Performance ²³⁴					
Sequential Read (MB/s)	6000	12000	13800	13800	13800
Sequential Write (MB/s)	850	1700	3500	6900	9000
4K Random Read (IOPS)	350K	700K	1500K	2200K	2800K
4K Random Write (IOPS)	30K	65K	155K	220K	260K
Read Latency (Typ., µs)	60	60	60	60	-
Write Latency (Typ., µs)	25	15	9	9	-
Power Consumption ⁵					
Active (W)	8.2	8.2	8.2	8.2	-
Idle (W)	2.5	2.5	2.5	2.5	-
Endurance/Reliability					
DWPD ⁶	1	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	< 1 sector per 10 ¹⁷ 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)	4.00	4.00	4.00	4.00	4.00
Weight (g)	-	-	-	-	-
Part Number					
Non-SED FW	B2802D0F480GP015 12G10	B2802D0F960GP011 T0210	B2802D0F1T92P012 T0410	B2802D0F3T84P014 T0910	B2802D0F7T68P018 T1910
SED FW	B2802D0F480GP215 12G10	B2802D0F960GP211 T0210	B2802D0F1T92P212 T0410	B2802D0F3T84P214 T0910	B2802D0F7T68P218 T1910

(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.

(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 sequential and random read/write operations.

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



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