

Server SSD: BT-Series

BTN-100: Ultimate Boot Drive for Server and Workstations

Key Product Features

- End-to-End Data Path Protection
- NVMe 1.4
- Power Loss Protection (PLP)
- Self-Encrypting Drive option available
 AES-XTS 256-bit Encryption
 TCG Opal 2.0 Support
 NVME Sanitize

Key Product Metrics	
Sequential Read	Up to 5,000 MB/s
Sequential Write	Up to 700 MB/s
Random Read	Up to 450K IOPS
Random Write	Up to 30K IOPS
Interface	PCIe Gen 4 x4 NVMe 1.4
Capacity	Up to 960 GB
Form Factor	M.2 2280
Drive Write Per Day	1



BTN-100

Form Factor M.2 2280		
Capacity ⁽¹⁾	480GB	960GB
Interface	PCIe 4.0 x4	PCle 4.0 x4
NVMe	1.4	1.4
NAND Flash	3D TLC	3D TLC
Performance (2,3,4)		
Sequential Read (MB/s)	4,000	5,000
Sequential Write (MB/s)	300	700
4K Random Read (IOPS)	250K	450K
4K Random Write (IOPS)	15K	30K
Read Latency (Typ.,µs)	75	75
Write Latency (Typ.µs)	55	30
Power Consumption (5)		
Active (W)	5.9	8.5
Idle (W)	3.5	3.5
Endurance/Reliability		
DWPD ⁽⁶⁾	1	1
UBER	< 1 sector per 10 ¹⁷ bits read	< 1 sector per 10 ¹⁷ bits read
MTBF (million hours)	2.0	2.0
Limited Warranty (years)	5	5
Temperature Temperature		
Operating Temp. (°C)	0 - 70	0 - 70
Non-Operating Temp. (°C)	-40 - 85	-40 - 85
Physical Dimension		
Length (mm)	80.00	80.00
Width (mm)	22.00	22.00
Height (mm)	4.08	4.08
Weight (g)	11	11



^{(1) 1} TB = 10¹² bytes.
(2) Sequential Performance is based on FIO on Linux, 128K, with QD=32, 1 job.
(3) Random Performance is based on FIO on Linux, 4K 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 (Maximum 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.

For more information on available configurations, please contact us at: inquiries@rpics.com.

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Product Configurations

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