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

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BTN-100

Form Factor M.2 2280		
Capacity[1]	480GB	960GB
Interface	PCIe 4.0 x4	PCIe 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.,μ s)	75	75
Write Latency (Typ.μ s)	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		
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 = 10^{12} 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.

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Product Configurations

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

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