Server SSD: BT-Series

BTS-50P: A High-Quality SATA Boot Drive for Legacy Systems and System Upgrades

Key Product Features

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

Key Product Metrics	
Sequential Read	Up to 530 MB/s
Sequential Write	Up to 500 MB/s
Random Read	Up to 98K IOPS
Random Write	Up to 30K IOPS
Interface	SATA III
Capacity	Up to 960GB
Form Factor	2.5” and M.2 2280
Drive Write Per Day	1

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BTS-50P

M.2 2280				
	Capacity[1]	240GB	480GB	960GB
Performance[2,3]	Sequential Read	530 MB/s	530 MB/s	530 MB/s
	Sequential Write	290 MB/s	480 MB/s	500 MB/s
	4K Random Read	60K IOPS	90K IOPS	98K IOPS
	4K Random Write	10K IOPS	15K IOPS	30K IOPS
Power Consumption[4]	Max	2.3 W	2.8 W	2.8 W
	Idle	1.2 W	1.3 W	1.3 W
Latency	4K Random Read	120 us	120 us	120 us
	4K Random Write	80 us	50 us	30 us
2.5”				
	Capacity[1]	240GB	480GB	960GB
Performance[2,3]	Sequential Read	530 MB/s	530 MB/s	530 MB/s
	Sequential Write	290 MB/s	480 MB/s	500 MB/s
	4K Random Read	60K IOPS	90K IOPS	98K IOPS
	4K Random Write	10K IOPS	15K IOPS	30K IOPS
Power Consumption[4]	Max	2.2	2.7	2.7
	Idle	1.1	1.1	1.2
Latency	4K Random Read	120	120	120
	4K Random Write	80	50	30
Features				
	Interface	SATA III		
	NAND Flash	3D TLC		
	DWPD[5]	1		
	UBER	1 in 10^{17}		
	Operating Temperature	0°C - 70°C		
	Non-Operating Temperature	-40°C - 85°C		
Key Features				
LDPC Power Loss Data Protection End-to-End Data Protection				

(1) 1 GB = 1,000,000,000 bytes.
(2) Sequential Performance is based on FIO on Linux, 128K, with QD=32, 1 worker, and test drive set as secondary.
(3) Random Performance is based on FIO on Linux, 4K data size, QD=32, 1 worker, 4K aligned.
(4) Power consumption is measured during the sequential read/write and random read/write operations performed by iometer with the conditions described in (2)(3).
(5) 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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