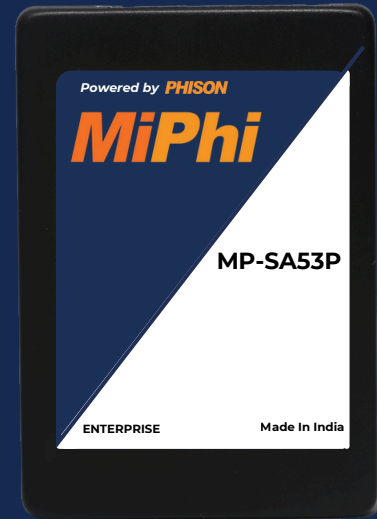


ENTERPRISE S-SERIES

EFFICIENT SATA STORAGE SOLUTION FOR DATA CENTER MP-SA53P

The MP-SA53P SSD is a SATA SSD solution that features next-generation NAND and a streamlined architecture for cost-effectiveness. It provides a wide variety of options for diverse workloads in today's advanced data centers.

KEY FEATURES	
Interface	SATA III
NAND Flash	3D TLC
DWPD	1
UBER	<1 sector per 10 bits
Operating Temperature	0°C - 70°C
Non-Operating Temperature	-40°C - 85°C
MTBF (million years)	2



- SATA III
- Capacity up to 3840GB
- Form Factor: 2.5"
- DWPD: 1
- Power Loss Protection (PLP)
- ISE, TCG Opal 2.0 Support
- AES-XTS 256-bit Encryption
- End-to-End Data Path Protection

Sequential Performance

Read 530 MB/s

Read 500 MB/s

Random Performance

Read 98K IOPS

Write 39K IOPS

MP-SA53P Specifications

2.5"						
	Capacity	240GB	480GB	960GB	1920GB	3840GB
Performance	Seq Read	530 MB/s	530 MB/s	530 MB/s	530 MB/s	530 MB/s
	Seq Write	350 MB/s	500 MB/s	500 MB/s	500 MB/s	500 MB/s
	Random Read	90K IOPS	98K IOPS	98K IOPS	98K IOPS	98K IOPS
	Random Write	12K IOPS	28K IOPS	32K IOPS	39K IOPS	35K IOPS
Power Consumption	Max	2.3 W	2.9 W	2.8 W	3.3 W	2.9 W
	Idle	1.3 W	1.3 W	1.4 W	1.4 W	1.7 W
Latency	Read Latency	110 us	100 us	110 us	110 us	100 us
	Write Latency	80 us	40 us	40 us	30 us	30 us

KEY FEATURES

Enterprise Features Support List:

- Metadata protection
- Powerloss protection
- Hardware AES-XTS 256-bit encryption
- Support SMBbus

Compliance Support List

- Management Interface
- Rev 1.1 TCG Opal 2.0(6)
- Sanitize(6)

(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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