

Reliable performance, from start to finish

Keep your business running 24/7. Meeting the demands of server storage systems, the PM893 is designed for optimal performance and high QoS (Quality of Service) under the SATA Interface.

The PM893 is equipped to handle massive amounts of data with sequential read/write speeds of up to 550/520 MB/s and random read/write speeds of up to 98K/30K IOPS (Input Output Per Second). Businesses can achieve more with enhanced operations, fewer servers, reduced power and cooling, reliable end-to-end data protection, and lower TCO (Total Cost of Ownership) – all efficiently managed under the SSD toolkit software.



1) 1MB = 1,000,000 Bytes, 1GB = 1,000,000,000 Bytes, Unformatted Capacity. User accessible capacity may vary depending on operating environment and formatting. 2) Performance measured using FIO 2.7 with queue depth 32, Z170 Intel SATA 6G port. Measurements are performed on whole LBA range. Write cache enabled. Performance vary depending on capacity 3) Active Read power is measured on 4 KB random read. Active Write power is measured on 4 KB random write. Idle power is measured with DIPM off. 4) Internal free fall shock test conducted under controlled conditions 5) TBW is measured while running 100 % random 4 KB writes across the entire SSD. (TBW = DWPD x 365 x 5 x User capacity). 6) Warranty 5 years or TBW, whichever comes first.

480GB MZ-7L348000 | MZ7L3480HCHQ-00W07 | 887276642239

960GB MZ-7L396000 | MZ7L3960HCJR-00W07 | 887276642222

1.92TB MZ-7L31T900 | MZ7L31T9HBLT-00W07 | 887276642215

3.84TB MZ-7L33T800 | MZ7L33T8HBLT-00W07 | 887276642208

7.68TB MZ-7L37T600 | MZ7L37T6HBLA-00W07 | 887276649993

Key Features

SAMSUNG V-NAND SSD

Data Center SSDs, Advanced V-NAND

Keep your business running 24/7. Attain optimal performance, value and reliability with advanced Samsung V-NAND technology SSDs. They're produced in-house to stringent standards and are designed specifically to meet the demands of data centers, with added reliability.



Easily Upgrade Legacy Infrastructure

The 2.5" form factor and SATA interface make it simple to upgrade from your legacy storage solution, while maintaining your current infrastructure. No modifications required.



End-to-End Data Protection

End-to-end data protection ensures consistency over the entire data transfer path, greater reliability and peace of mind.



Protection from Power Loss

In the event of power failure, Samsung SSD includes power loss protection to prevent data corruption.



Performance Fit for Mixed Workloads

Give speed to your business presence. Boost performance with faster sequential and random read speeds. Samsung PM893 SSD is ideal for all types of storage needs for handling massive amounts of data.



Enhanced Operations Efficiency

Accomplish far more with less. Achieve higher efficiency and performance compared to legacy storage systems, with fewer servers, reduced power and cooling, and lower TCO. Maintenance is more efficient too, with the provided Samsung SSD Toolkit software.



Samsung Quality and Reliability

Keep going with less downtime. In-house production utilizing our own Samsung-built components allows us greater quality control and manufacturing efficiencies, to produce SSDs of superior quality and reliability. Empower your business to run faster, more efficiently, and with the reduced costs that come from world-class dependability.



Specifications

Interface	SATA 6Gbps, compatible with ATA/ATAPI-7 Standard	
Form Factor	2.5" 7mmT SATA	
Hardware	NAND Samsung VNAND 3bit MLC	
Controller	In-house	
Capacity ¹	480GB / 960GB 1.92TB / 3.84TB / 7.68TB	
Dimensions (L x W x H)	3.94" x 2.75" x 0.27"	
Weight	Up to 70 g	
Sequential Read/Write, (MB/s) ²	Up to 550/520MB/s ²	
Random Read / Write (IOPS) ²	Up to 57K/19K IOPS (8KB) Up to 98K/30K IOPS (4KB)	
Power Consumption ³	Active Read/Write (Max.) 2.2W / 3.2W	Idle (Max.) 1.3W
Shock (Non-Operating) ⁴	1500G, Duration 0.5m/sec, Half-Sine Wave	
Total Bytes Written ⁵	Up to 876 TB (480GB) Up to 1,752 TB (960GB) Up to 3,504 TB (1920GB) Up to 7,008 TB 3840GB) Up to 14,016 TB (7680GB)	
Warranty ⁶	Limited 5-year	

480GB

960GB

1.92TB

3.84TB

7.68TB

PM893 Solid State Drives

