

# SAMSUNG

## 883 DCT 2.5" Solid State Drives

240 GB	MZ-7LH240NE	1920 GB (1.9 TB)	MZ-7LH1T9NE
480 GB	MZ-7LH480NE	3840 GB (3.8 TB)	MZ-7LH3T8NE
960 GB	MZ-7LH960NE		

# Improve data center reliability, 2.5" at a time.

## Advanced 2.5" SSD designed for mixed workload applications that require optimal performance and high QoS.

Safeguard critical data while increasing performance. Samsung 883 DCT SSD is the ideal solution. Designed for web servers or data centers, these 2.5" drives offer optimal performance and high quality of service (QoS) under the SATA interface. 883 DCT SSD is available in a variety of capacities ranging from 240 GB to 3.84 TB, and incorporates features that enhance reliability such as power loss protection and end-to-end data protection. Upgrade performance. Upgrade efficiency. Upgrade to Samsung 883 DCT SSD.

### Key Features

#### **SAMSUNG V-NAND** 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 883 DCT 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.



# Samsung 883 DCT 2.5" Solid State Drives



		MZ-7LH240NE	MZ-7LH480NE	MZ-7LH960NE	MZ-7LH1T9NE	MZ-7LH3T8NE
Usage Application		Data Center	Data Center	Data Center	Data Center	Data Center
Capacity <sup>1</sup>		240 GB	480 GB	960 GB	1920 GB (1.9 TB)	3840 GB (3.8 TB)
Dimensions (WxHxD)		3.94" x 2.75" x 0.27"	3.94" x 2.75" x 0.27"	3.94" x 2.75" x 0.27"	3.94" x 2.75" x 0.27"	3.94" x 2.75" x 0.27"
Interface		SATA 6 Gb/s (Compatible with SATA 3 Gb/s and SATA 1.5 Gb/s)	SATA 6 Gb/s (Compatible with SATA 3 Gb/s and SATA 1.5 Gb/s)	SATA 6 Gb/s (Compatible with SATA 3 Gb/s and SATA 1.5 Gb/s)	SATA 6 Gb/s (Compatible with SATA 3 Gb/s and SATA 1.5 Gb/s)	SATA 6 Gb/s (Compatible with SATA 3 Gb/s and SATA 1.5 Gb/s)
Form Factor		2.5"	2.5"	2.5"	2.5"	2.5"
Controller		MARU	MARU	MARU	MARU	MARU
NAND Flash Memory		Samsung V-NAND 3-bit MLC	Samsung V-NAND 3-bit MLC	Samsung V-NAND 3-bit MLC	Samsung V-NAND 3-bit MLC	Samsung V-NAND 3-bit MLC
DRAM Cache Memory		Samsung 512 MB LPDDR4	Samsung 512 MB LPDDR4	Samsung 1 GB LPDDR4	Samsung 2 GB LPDDR4	Samsung 4 GB LPDDR4
Performance <sup>2</sup>	128KB Sequential Read (Max.)	560 MB/s	560 MB/s	560 MB/s	560 MB/s	560 MB/s
	128KB Sequential Write (Max.)	320 MB/s	520 MB/s	520 MB/s	520 MB/s	520 MB/s
	4KB Random Read (QD32) (Max.)	98,000 IOPS	98,000 IOPS	98,000 IOPS	98,000 IOPS	98,000 IOPS
	4KB Random Write (QD32) (Max.)	14,000 IOPS	24,000 IOPS	28,000 IOPS	28,000 IOPS	28,000 IOPS
Weight (Max.)		60 g.	60 g.	60 g.	60 g.	60 g.
Reliability (MTBF)		2 Million Hours	2 Million Hours	2 Million Hours	2 Million Hours	2 Million Hours
TBW <sup>3</sup>		Up to 341 TBW	Up to 683 TBW	Up to 1,366 TBW	Up to 2,733 TBW	Up to 5,466 TBW
Power Loss Protection		Provided	Provided	Provided	Provided	Provided
Power Consumption <sup>4</sup>	Active Read/Write (Max.)	2.3 W / 3.6 W	2.3 W / 3.6 W	2.3 W / 3.6 W	2.3 W / 3.6 W	2.3 W / 3.6 W
	Idle (Max.)	1.3 W	1.3 W	1.3 W	1.3 W	1.3 W
Supporting Features		TRIM Support, Garbage Collection, S.M.A.R.T., AES 256-bit Encryption (Class 0), WWN Support	TRIM Support, Garbage Collection, S.M.A.R.T., AES 256-bit Encryption (Class 0), WWN Support	TRIM Support, Garbage Collection, S.M.A.R.T., AES 256-bit Encryption (Class 0), WWN Support	TRIM Support, Garbage Collection, S.M.A.R.T., AES 256-bit Encryption (Class 0), WWN Support	TRIM Support, Garbage Collection, S.M.A.R.T., AES 256-bit Encryption (Class 0), WWN Support
Temperature <sup>5</sup>	Operating	32° ~ 158°F (0°C ~ 70°C)	32° ~ 158°F (0°C ~ 70°C)	32° ~ 158°F (0°C ~ 70°C)	32° ~ 158°F (0°C ~ 70°C)	32° ~ 158°F (0°C ~ 70°C)
	Non-Operating	-49° ~ 185°F (-40°C to 85°C)	-49° ~ 185°F (-40°C to 85°C)	-49° ~ 185°F (-40°C to 85°C)	-49° ~ 185°F (-40°C to 85°C)	-49° ~ 185°F (-40°C to 85°C)
Humidity		5% to 95%, Non-Condensing	5% to 95%, Non-Condensing	5% to 95%, Non-Condensing	5% to 95%, Non-Condensing	5% to 95%, Non-Condensing
Vibration (Non-Operating)		20-2000Hz, 20G	20-2000Hz, 20G	20-2000Hz, 20G	20-2000Hz, 20G	20-2000Hz, 20G
Shock (Non-Operating) <sup>6</sup>		1500G, Duration 0.5 m/sec, Half-Sine	1500G, Duration 0.5 m/sec, Half-Sine	1500G, Duration 0.5 m/sec, Half-Sine	1500G, Duration 0.5 m/sec, Half-Sine	1500G, Duration 0.5 m/sec, Half-Sine
Limited Warranty <sup>7</sup>		3 Years or 341 TBW	3 Years or 683 TBW	3 Years or 1,366 TBW	3 Years or 2,733 TBW	3 Years or 5,466 TBW



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<sup>1</sup> 1 GB=1,000,000,000 bytes, unformatted capacity. User accessible capacity may vary depending on operating environment and formatting. <sup>2</sup> Performance measured using FIO 2.7 with queue depth 32, Z170 Intel SATA 6G port. Measurements are performed on entire LBA range. Write cache enabled. Performance varies depending on capacity. <sup>3</sup> All documented endurance test results are obtained in compliance with JEDEC218 standards. Please visit [jedec.org](https://www.jedec.org) for detailed information on JEDEC218 standards. <sup>4</sup> Power consumption measured using FIO 2.14 with Z270 Intel SATA 6G port, CentOS 7.2, Kernel 3.10.0/327, CPU (Intel® Core™ i7-6700K CPU @ 4.20 GHz) and 16 GB RAM. Active Read power is measured on 4KB random read. Active Write power is measured on 128 KB sequential write. Idle power is measured with DIPM off. <sup>5</sup> Operating temperature is measured by SSD temperature sensor (SMART Attribute 194). Proper airflow recommended. <sup>6</sup> Internal free fall shock test conducted under controlled conditions. <sup>7</sup> Warranty 3 years or TBW, whichever comes first. For more information on the warranty, please find the warranty statement enclosed in the package.