SAMSUNG

860 DCT 2.5" Solid State Drives

960 GB	MZ-76E960E
1920 GB (1.9 TB)	MZ-76E1T9E
3840 GB (3.8 TB)	MZ-76E3T8E

Improve your read-intensive, data-streaming data center: Read this.

Advanced 2.5" SSD designed for read-intensive, data-streaming data centers.

You can easily increase the performance, value and reliability of your read-intensive, data-streaming data centers. Simply use Samsung 860 DCT Series SSD. Specifically engineered for long-lasting performance, they're designed to meet and exceed the unique requirements of all types of read-intensive, data-streaming data centers. With our groundbreaking V-NAND technology, best-in-class TBW levels, and a reinforced controller, they're the right drive for the right job.

Key Features

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 enhance your read-intensive, data-streaming data center.

Optimal Read-Intensive Performance

Give speed to your business presence. Boost performance with faster sequential and random read speeds. They're ideal for all types of read-intensive, data-streaming data centers, including content delivery network systems.

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.

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Samsung 860 DCT 2.5" Solid State Drives

		MZ-76E960E	MZ-76E1T9E	MZ-76E3T8E
Usage Application		Data Center	Data Center	Data Center
Capacity[1]		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"
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)
Form Factor		2.5"	2.5"	2.5"
Controller		Samsung MJX Controller	Samsung MJX Controller	Samsung MJX Controller
NAND Flash Memory		Samsung V-NAND 3-bit MLC	Samsung V-NAND 3-bit MLC	Samsung V-NAND 3-bit MLC
DRAM Cache Memory		Samsung 1 GB LPDDR4 SDRAM	Samsung 2 GB LPDDR4 SDRAM	Samsung 4 GB LPDDR4 SDRAM
Performance[2]	4KB Sequential Read (Max.)	550 MB/s	550 MB/s	550 MB/s
	4KB Sequential Write (Max.)	520 MB/s	520 MB/s	520 MB/s
	4KB Random Read (QD32) (Max.)	98,000 IOPS	98,000 IOPS	98,000 IOPS
	4KB Random Write (QD32) (Max.)	19,000 IOPS	19,000 IOPS	19,000 IOPS
Weight (Max.)		51 g.	60 g.	62 g.
Reliability (MTBF)		1.5 Million Hours	1.5 Million Hours	1.5 Million Hours
TBW (Terabytes Written)[3]		349 TBW	698 TBW	1,396 TBW
Power Consumption[4]	Active Write (Average)	2.90 W	2.95 W	2.95 W
	Idle (Max.)	1.05 W	1.05 W	1.05 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
Temperature[5]	Operating	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 (-45˚C to 85˚C)	-49˚ ~ 185˚F (-45˚C to 85˚C)	-49˚ ~ 185˚F (-45˚C to 85˚C)
Humidity		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
Shock (Non-Operating)[6]		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[7]		3 Years or 349 TBW	3 Years or 698 TBW	3 Years or 1,396 TBW

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Product Support 1-866-SAM4BIZ

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[1]1 GB=1,000,000,000 bytes, unformatted capacity. User accessible capacity may vary depending on operating environment and formatting. [2]Performance measured using FIO 2.18 with queue depth 32, Z170 Intel SATA 6G port. Measurements are performed on entire LBA range. Write cache enabled. Performance may vary depending on capacity. [3]All documented endurance test results are obtained in compliance with JESD218 standards. Please visit jedec.org for detailed information on JESD218 standards. [4]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 4K random read. Active Write power is measured on 128 KB sequential write. Idle power is measured with DIPM off. [5]Operating temperature is measured by SSD temperature sensor (SMART Attribute 194). Proper airflow recommended. [6]Internal free fall shock test conducted under controlled conditions. [7]Warranty 5 years or TBW, whichever comes first. For more information on the warranty, please find the warranty statement enclosed in the package.