

# SAMSUNG

# 870 QVO 2.5" SATA Solid State Drives

# Go big, do more

The 870 QVO is Samsung's latest 2nd generation QLC SSD with up to 8TB of storage capacity. Dependable storage for PCs and laptops, with performance you can trust.



- 1TB** MZ-77Q1T0B/AM | UPC 887276417882
- 2TB** MZ-77Q2T0B/AM | UPC 887276417875
- 4TB** MZ-77Q4T0B/AM | UPC 887276417851
- 8TB** MZ-77Q8T0B/AM | UPC 887276417868

## Key Features

### Enhanced in every way



Achieving the maximum SATA interface limit of 560/530 MB/s sequential speeds, the 870 QVO features improved random speed and sustained performance compared to the previous 860 QVO. Intelligent TurboWrite accelerates write speeds and maintains long-term high performance with a larger variable buffer.<sup>1</sup>

### Boost capacity



The 870 QVO is available in 1TB, 2TB, 4TB and 8TB.<sup>2</sup> Upgrade to the latest in SATA SSD technology to thrive in today's digital world.

### Reliable and sustainable



The capacity of the 1TB 870 QVO increases reliability up to 360 TBW (terabytes written) using a refined ECC (error-correcting code) algorithm for stable performance. Plus, it's backed by a limited 3-year warranty<sup>3</sup> for ultimate peace of mind.

### Upgrade with ease



Upgrading to the 870 QVO is made easy for anyone with a desktop PC or laptop that supports a standard 2.5-inch SATA form factor. Enjoying this terabyte SSD is as convenient as plugging in the 870 QVO into a SATA slot, and letting the renewed migration software take care of the rest.

### Samsung Magician Software



Keep your SSD in check with Samsung Magician 6.1 software. Manage your drive and enhance its performance with a wide range of useful tools to keep up with the latest updates and monitor the drive's health and status.

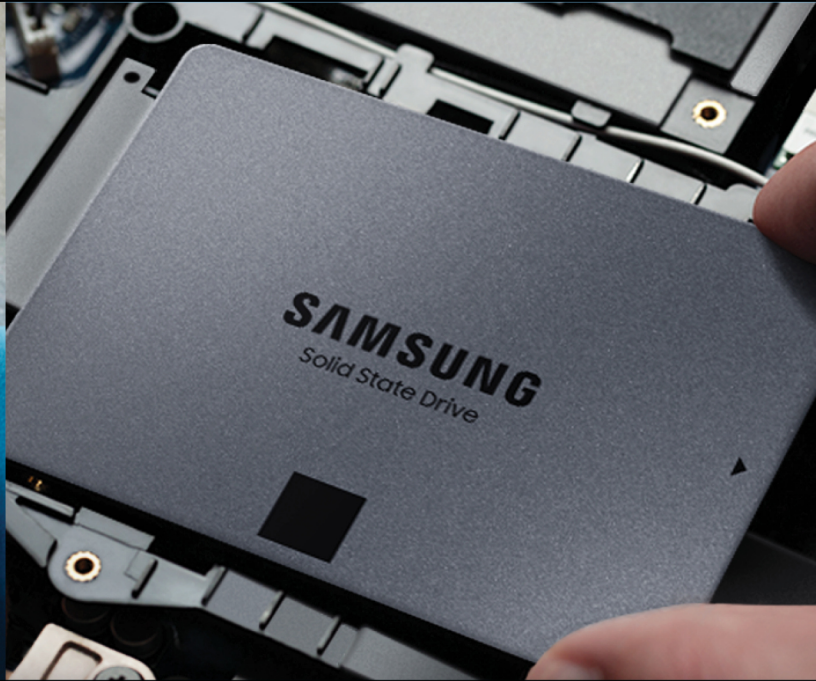
### World's #1 Flash Memory Brand



Experience the performance and reliability from the world's number one brand for flash memory since 2003.<sup>4</sup> All firmware and components, including Samsung's world-renowned DRAM and NAND, are produced in-house, allowing end-to-end integration for quality you can trust.

<sup>1</sup>Performance may vary based on SSD's firmware version and system hardware & configuration. Random performance improved up to 13% in QD1 Random read for 870 QVO vs. 860 QVO. Sustained write performance improved up to 21% for 870 QVO vs. 860 QVO. Test system configuration: Intel® Core i7-7700k CPU@4.20GHz, DDR4 1200MHz 32GB, OS - Windows 10 Pro 64bit, Chipset - ASUS-PRIME-Z270-A.<sup>2</sup>1GB=1,000,000,000 bytes by IDEMA. A certain portion of capacity may be used for system file and maintenance use, so the actual capacity may differ from what is indicated on the product label. Available dates may differ by capacity. 8TB not available at this time. <sup>3</sup>Warrantied TBW: 360 TBW for 1TB model, 720 TBW for 2TB model and 1,440 TBW for 4TB model. 2880 TBW is specific to the 8TB model, which not available at this time. Limited warranty up to 3 years or up to the TBW for each capacity, whichever comes first. For more information on warranty, please find the enclosed warranty statement in the package. <sup>4</sup>2003-2019 HIS Markit market share data.

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## Specifications

Interface	SATA 6Gbps	
Form Factor	2.5"	
Hardware	<b>NAND</b> 9XL V-NAND 4bit MLC	<b>DRAM</b> 1GB LPDDR4 (1GB) 2GB LPDDR4 (2GB) 4GB LPDDR4 (4GB) 8GB LPDDR4 (8GB)
	<b>Controller</b> MKX	
Capacity	1TB/2TB/4TB/8TB	
Dimensions (L x W x H)	100 x 69.9 x 6.8 mm (3.9 x 2.8 x 0.3 inches)	
Weight	57 grams (2.0oz)	
Sequential Read/Write (MB/s)	Up to 560/530	
Random Read/Write (IOPS)	<b>QD1</b> Up to 11,000/35,000	<b>QD32</b> Up to 98,000/88,000
Device Sleep	3 mW support (Up to 10 mW for 8TB)	
Data Encryption	Class 0 (AES 256), TCG/Opal v2.0, MS eDrive (IEEE1667)	
Total Bytes Written	Up to 2,880 TBW	
Warranty	Limited 3-year	

- 1TB
- 2TB
- 4TB
- 8TB

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