

1 TB (1,000 GB)	MZ-76Q1T0B/AM
2 TB (2,000 GB)	MZ-76Q2T0B/AM
4 TB (4,000 GB)	MZ-76Q4T0B/AM

# Presenting your first terabyte SSD.



## Move beyond HDD with reliable, high-capacity Samsung SSD.

Looking to increase your business performance? Upgrade to the speed and reliability that Samsung SSD offers. The Samsung 860 QVO offers an affordable way to reap all the benefits of SSD. Featuring our groundbreaking V-NAND technology, Samsung 860 QVO SSD gives you up to 4 TB of space, along with best-in-class TBW levels and a fast MJX controller. It's the ideal solution for any business looking for a fast, easy and reliable way to upgrade their productivity.

### Key Features



#### Optimal Performance for Everyday Computing

Samsung 860 QVO SSD deliver sequential read/write speeds of up to 550/520 MB/s. That's about three times faster than HDD.



#### Terabyte-Level Capacity with an Affordable Price

The 860 QVO SSD offers 4-bit MLC V-NAND technology. It offers more capacity and less cost than 3-bit MLC NAND technology. For the same budget, you can have a 1 TB 860 QVO SSD, instead of a 256 GB SSD and 2 TB HDD.



#### Intelligent TurboWrite Technology

Intelligent TurboWrite incorporates variable SLC buffer technology. When you're working with large files, the 860 QVO allocates more SLC buffer as needed, for an optimal user experience.



#### Proven Quality and Reliability

Install Samsung SSD, and it will keep performing for a long time to come. The 860 QVO SSD is rated as high as 1,440 TBW (4 TB).



#### Expanded Compatibility

The MJX controller in the 860 QVO SSD processes data up to 2x faster than the previous MGX controller. It runs fine error correction and supports higher capacities, and is compatible with many different client applications.



#### Samsung Magician Software

Manage your SSD with a simple and intuitive user interface. Get notifications when new firmware is released, and easily install updates. Check your SSD's sequential and random read/write speeds to maintain superb performance. And protect data with AES 256-bit hardware-based encryption and compliancy with TCG Opal and IEEE 1667.

# Samsung 860 QVO 2.5" Solid State Drives



		MZ-76Q1TOB/AM	MZ-76Q2TOB/AM	MZ-76Q4TOB/AM
Usage Application		Client PCs	Client PCs	Client PCs
Capacity <sup>1</sup>		1 TB (1,000 GB)	2 TB (2,000 GB)	4 TB (4,000 GB)
Dimensions (WxHxD)		3.93" x 2.75" x 0.27" / 100 x 69.85 x 6.8 mm	3.93" x 2.75" x 0.27" / 100 x 69.85 x 6.8 mm	3.93" x 2.75" x 0.27" / 100 x 69.85 x 6.8 mm
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 4-bit MLC	Samsung V-NAND 4-bit MLC	Samsung V-NAND 4-bit MLC
Cache Memory		1 GB LPDDR4 SDRAM	2 GB LPDDR4 SDRAM	4 GB LPDDR4 SDRAM
Performance <sup>2</sup>	Sequential Read (Max.)	550 MB/s	550 MB/s	550 MB/s
	Sequential Write (Max.)	520 MB/s	520 MB/s	520 MB/s
	4KB Random Read (QD1) (Max.)	7,500 IOPS	7,500 IOPS	7,500 IOPS
	4KB Random Write (QD1) (Max.)	42,000 IOPS	42,000 IOPS	42,000 IOPS
	4KB Random Read (QD32) (Max.)	96,000 IOPS	97,000 IOPS	97,000 IOPS
	4KB Random Write (QD32) (Max.)	89,000 IOPS	89,000 IOPS	89,000 IOPS
Data Security		AES 256-bit Full Disk Encryption, TCG/Opal, Encrypted Drive (IEEE1667)	AES 256-bit Full Disk Encryption, TCG/Opal, Encrypted Drive (IEEE1667)	AES 256-bit Full Disk Encryption, TCG/Opal, Encrypted Drive (IEEE1667)
Weight (Max.)		1.8 oz. / 51 g.	2.1 oz. / 60 g.	2.2 oz. / 61.0 g.
Reliability (MTBF)		1.5 Million Hours	1.5 Million Hours	1.5 Million Hours
TBW (Terabytes Written)		360 TBW	720 TBW	1440 TBW
Power Consumption <sup>3</sup>	System Level (Avg., Max.)	2.2 W / 4.0 W (Burst Mode)	3.1 W / 4.2 W (Burst Mode)	3.1 W / 5.4 W (Burst Mode)
	Idle (Max.)	30 mW	30 mW	30 mW
Allowable Voltage		5 V +/- 5%	5 V +/- 5%	5 V +/- 5%
Supporting Features		TRIM (Required OS Support), Garbage Collection, S.M.A.R.T, Sleep Mode Support, World Wide Name Support	TRIM (Required OS Support), Garbage Collection, S.M.A.R.T, Sleep Mode Support, World Wide Name Support	TRIM (Required OS Support), Garbage Collection, S.M.A.R.T, Sleep Mode Support, World Wide Name Support
Operating Temperature		32° to 158°F (0°C to 70°C)	32° to 158°F (0°C to 70°C)	32° to 158°F (0°C to 70°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) <sup>4</sup>		1500G, Duration 0.5m Sec, 3 Axis	1500G, Duration 0.5m Sec, 3 Axis	1500G, Duration 0.5m Sec, 3 Axis
Management SW		Magician Software	Magician Software	Magician Software
Limited Warranty <sup>5</sup>		3 Years or 360 TBW	3 Years or 720 TBW	3 Years or 1,440 TBW



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<sup>1</sup>1GB = 1,000,000,000 bytes. Actual usable capacity may be less (due to formatting, partitioning, operating system, applications or otherwise). <sup>2</sup>Performance may vary based on SSD's firmware version and system hardware and configuration. Sequential performance measurements based on CrystalDiskMark v.5.0.2. Random performance measurements based on Iometer 1.1.0. Sequential write performance measurements are based on Intelligent TurboWrite technology. For more information on TurboWrite, please visit [samsungssd.com](http://samsungssd.com). Test system configuration: Intel Core i5-3550 CPU @ 3.3 GHz, DDR3 1333 MHz 4GB, OS Windows 7 Ultimate x64, Chipset: ASUS P8H77-V. <sup>3</sup>Active power is measured during execution. Intel Core i7-7700K@4.2GHz, Samsung DD4R16 GB, Gigabyte GA-Z270X, OS Windows 10 PRO K x64. <sup>4</sup>Internal free fall shock test conducted under controlled conditions. <sup>5</sup>Warranty 3 years or TBW, whichever comes first. For more information on the warranty, please find the warranty statement enclosed in the package.