# 870 QVO SATA III 2.5" SSD 1TB

**MZ-77Q1T0 /MZ-77Q1T0B/AM**

* 2nd generation 4-bit MLC  technology that delivers fast read/write speeds of 560/530 MB/s\*
* • V-NAND reliability backed by up to 3-year or 360 TBW warranty
* **Storage**
* **[8TB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-qvo-sata-iii-2-5-ssd-8tb-mz-77q8t0b-am/" \t "_self)**
* [$549.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-qvo-sata-iii-2-5-ssd-8tb-mz-77q8t0b-am/" \t "_self)
* **[4TB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-qvo-sata-iii-2-5--ssd-4tb-mz-77q4t0b-am/" \t "_self)**
* [$239.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-qvo-sata-iii-2-5--ssd-4tb-mz-77q4t0b-am/" \t "_self)~~[$299.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-qvo-sata-iii-2-5--ssd-4tb-mz-77q4t0b-am/" \t "_self)~~
* **[2TB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-qvo-sata-iii-2-5--ssd-2tb-mz-77q2t0b-am/" \t "_self)**
* [$129.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-qvo-sata-iii-2-5--ssd-2tb-mz-77q2t0b-am/" \t "_self)~~[$149.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-qvo-sata-iii-2-5--ssd-2tb-mz-77q2t0b-am/" \t "_self)~~
* **[1TB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-qvo-sata-iii-2-5--ssd-1tb-mz-77q1t0b-am/" \t "_self)**
* [$79.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-qvo-sata-iii-2-5--ssd-1tb-mz-77q1t0b-am/" \t "_self)~~[$89.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-qvo-sata-iii-2-5--ssd-1tb-mz-77q1t0b-am/" \t "_self)~~
* General Feature

**Product Type**

870 QVO SATA III 2.5" SSD 1TB

**Family Line**

870 QVO SATA III 2.5" SSD

**Capacity**

1TB

**Interface**

SATA 6 Gbps Interface, compatible with SATA 3 Gbps & 1.5 Gbps interfaces

**Compatibility**

Windows10/Windows 8/Windows 7/Windows Server 2003 (32 bit and 64 bit), Vista (SP1 and above), XP (SP2 and above), MAC OSX and Linux

* Performance

**Speed**

Read/write speeds of up to 560/530 MB/s

**Encryption**

AES 256-bit Full Disk Encryption, TCG/Opal V2.0, Encrypted Drive (IEEE1667)

* Type

**Product Type**

SATA SSD

**Storage Type**

Internal

**Interface**

SATA 6 Gb/s Interface

**Read/Write Speeds**

up to 560/530 MB/s

**Usage Application**

Client PCs

* Storage

**Capacity**

1TB

* Key Features

**Sequential Read Speed**

Up to 560 MB/s Sequential Read \* Performance may vary based on system hardware & configuration

**Sequential Write Speed**

Up to 530 MB/s Sequential Write \* Performance may vary based on system hardware & configuration \*\* Measured with Intelligent TurboWrite technology being activated

**Compatibility**

Compatible with SATA 3 Gbps & 1.5 Gbps interfaces

**Cache Memory**

Samsung 1 GB Low Power DDR4 SDRAM

**Trim Support**

TRIM Supported

**Security**

AES 256-bit Full Disk Encryption, TCG/Opal V2.0, Encrypted Drive (IEEE1667)

**S.M.A.R.T. Support**

S.M.A.R.T Supported

**GC (Garbage Collection)**

Auto Garbage Collection Algorithm

**WWN Support**

World Wide Name supported

**Device Sleep Mode Support**

Yes

**Internal Storage**

Samsung V-NAND 4bit MLC

**2.5 SATA**

Yes

* General

**Average Power Consumption (system level)**

Average: 2.2 W \*Maximum: 4.0 W (Burst mode)\* Actual power consumption may vary depending on system hardware & configuration

**Power consumption (Idle)**

Max. 30 mW \* Actual power consumption may vary depending on system hardware & configuration

**Reliability (MTBF)**

1.5 Million Hours Reliability (MTBF)

* Environmental Specs

**Shock**

1,500 G & 0.5 ms (Half sine)

* Form Factor

**Product**

2.5 inch

* Dimensions (W x H x D)

**Product**

3.94" X 2.76 " X 0.27"

* Weight

**Product**

0.19 lbs.

* Warranty

**Product**

\* Limited warranty up to 3 years or up to the TBW for each capacity \*\*\*For more information on the warranty, please visit www.samsung.com/support