**870 EVO SATA 2.5" SSD 250GB**

**MZ-77E250 /MZ-77E250B/AM**

* • Maximize SATA interface limit up to 560/530 MB/s for read and write sequential speeds.
* • Up to 150 TBW\* under a 5 year limited warranty.

**Storage**

**[4TB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-evo-sata-2-5-ssd-4tb-mz-77e4t0b-am/" \t "_self)**

[$269.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-evo-sata-2-5-ssd-4tb-mz-77e4t0b-am/" \t "_self)~~[$349.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-evo-sata-2-5-ssd-4tb-mz-77e4t0b-am/" \t "_self)~~

**[2TB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-evo-sata-2-5-ssd-2tb-mz-77e2t0b-am/" \t "_self)**

[$119.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-evo-sata-2-5-ssd-2tb-mz-77e2t0b-am/" \t "_self)~~[$179.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-evo-sata-2-5-ssd-2tb-mz-77e2t0b-am/" \t "_self)~~

**[1TB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-evo-sata-2-5-ssd-1tb-mz-77e1t0b-am/" \t "_self)**

[$59.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-evo-sata-2-5-ssd-1tb-mz-77e1t0b-am/" \t "_self)~~[$109.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-evo-sata-2-5-ssd-1tb-mz-77e1t0b-am/" \t "_self)~~

**[500GB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-evo-sata-2-5-ssd-500gb-mz-77e500b-am/" \t "_self)**

[$49.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-evo-sata-2-5-ssd-500gb-mz-77e500b-am/" \t "_self)~~[$59.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-evo-sata-2-5-ssd-500gb-mz-77e500b-am/" \t "_self)~~

**[250GB](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-evo-sata-2-5-ssd-250gb-mz-77e250b-am/" \t "_self)**

[$49.99](https://www.samsung.com/us/computing/memory-storage/solid-state-drives/870-evo-sata-2-5-ssd-250gb-mz-77e250b-am/" \t "_self)

* General Feature

**Product Type**

870 EVO SATA 2.5" SSD 250GB

**Family Line**

870 EVO SATA 2.5" SSD

**Capacity**

250GB

**Interface**

SATA 6 Gbps Interface

**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

**Dimension (WxHxD)**

3.94" X 2.75 " X 0.27"

**Weight**

0.19 lbs.

* Performance

**Speed**

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

**Encryption**

Class 0 (AES 256) TCG/Opal v2.0, MS eDrive (IEEE1667)

* Type

**Interface**

SATA 6 Gb/s Interface, compatible with SATA 3 Gb/s & SATA 1.5 Gb/s interface

**Usage Application**

Client PCs

* Storage

**Capacity**

250 GB (1 GB=1 Billion byte by IDEMA) \* Actual usable capacity may be less (due to formatting, partitioning, operating system, applications or otherwise)

* 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

**Cache Memory**

Samsung 512 MB Low Power DDR4 SDRAM

**Trim Support**

TRIM Supported

**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 3bit MLC

**2.5 SATA**

Yes

* General

**Average Power Consumption (system level)**

Average: 2.2 W \*Maximum: 3.5 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

* Warranty

**Product**

\* Limited warranty up to 5 years or up to the TBW for each capacity \*\*\*For more information on the warranty, please visit www.samsung.com/support