ComX Computers
Product Specification Sheet

MZ-M6E250BW

Samsung 860 EVO 250GB MSATA Solid State Drive

Product Overview

Samsung 860 EVO 250GB SSD, Read Speed up to 550 MB/s, Write Speed up to 520 MB/s, Random Read Max 98000 IOPS, MJX Controller, 150 TBW, 512MB LPDDR 4, V-Nand



Specifications

Features:

The SSD to trust
The newest edition to the world's best-selling* SATA SSD series, the Samsung 860 EVO. Specially designed for mainstream PCs and laptops, with the latest V-NAND and a robust algorithm-based controller, this fast and reliable SSD comes in a wide range of compatible form factors and capacities.

Enhanced performance
Speeds are more consistent, even with heavy workloads and multi-tasks. The 860 EVO performs at sequential writes up to 520 MB/s* with Intelligent TurboWrite technology, and sequential reads up to 550 MB/s. The TurboWrite buffer size* is upgraded from 12 GB to 78 GB for faster file transfer.

Boosted endurance
Safely store and render large sized 4K videos and 3D data used by the latest applications, up to 8x higher TBW (Terabytes Written)* than the previous 850 EVO. The latest V-NAND technology gives you up to 2,400 TBW.

Smart compatibility
Benefit from faster, more fluid communication with your host system. The refined ECC* algorithm and a new MJX controller generate higher speeds, and the improved queued trim enhances Linux compatibility. Our advanced engineering makes the 860 EVO more compatible with your computing system.

Multi form factors
Whatever size your computer needs, there is an 860 EVO for you. Choose among the 2.5-inch size for desktop PCs and laptops, and the SATA-based M.2 (2280) or the mSATA for ultra-slim computing devices.

Management software
Samsung Magician software is designed to help you manage your SSD with a simple and intuitive user interface.

Firmware update
Get notifications when new firmware is released, and easily install updates for enhanced performance, stability, and compatibility.

Perf. benchmark
Check your SSD's sequential and random read/write speeds, so you can maintain superb performance.

Data security
Protect data by selecting security options. The 860 EVO supports AES 256-bit hardware-based encryption and is compliant with TCG Opal and IEEE 1667.

Specifications:

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Specifications	
Product Code	MZ-M6E250BW
General Feature	
Application	Client PCs
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)
Form Factor	2.5 inch
Interface	SATA 6 Gb/s Interface, compatible with SATA 3 Gb/s & SATA 1.5 Gb/s interface
Dimension (WxHxD)	(29.85+/-0.15) x (50.80+/-0.15) x Max 3.85 (mm)
Weight	Max. 8.5g
NAND Type	Samsung V-NAND 3bit MLC
Controller	Samsung MJX Controller
Cache Memory	Samsung 512 MB Low Power DDR4 SDRAM
Special Feature	
TRIM Support	TRIM Supported
S.M.A.R.T Support	S.M.A.R.T Supported
GC (Garbage Collection)	Auto Garbage Collection Algorithm
Encryption Support	AES 256-bit Encryption (Class 0)TCG/Opal IEEE1667 (Encrypted drive)
WWN Support	World Wide Name supported
Device Sleep Mode Support	Yes
Performance	
Sequential Read	Up to 550 MB/s Sequential Read * Performance may vary based on system hardware & configuration
Sequential Write	Up to 520 MB/s Sequential Write * Performance may vary based on system hardware & configuration
Random Read (4KB, QD32)	Up to 97,000 IOPS Random Read * Performance may vary based on system hardware & configuration

Random Write (4KB, QD32)	Up to 88,000 IOPS Random Write * Performance may vary based on system hardware & configuration
Random Read (4KB, QD1)	Up to 10,000 IOPS Random Read * Performance may vary based on system hardware & configuration
Random Write (4KB, QD1)	Up to 42,000 IOPS Random Write * Performance may vary based on system hardware & configuration
Environment	
Power Consumption	*Average: 2.2 W*Maximum: 4.5 W (Burst mode)* Actual power consumption may vary depending on system hardware & configuration
Reliability (MTBF)	1.5 Million Hours Reliability (MTBF)
Operating Temperature	0 - 70 degreesC Operating Temperature
Shock	1,500 G & 0.5 ms (Half sine)
Software	
Management SW	Magician Software for SSD management

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/MZ-M6E250BW-Samsung-860-EVO-250GB-MSATA-Solid-State-Drive-p-207668.php

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