

- Type

Series

SSD 860 EVO

Usage Application

Client PCs

Interface

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

- Storage

Capacity

500 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 550 MB/s Sequential Read * Performance may vary based on system hardware & configuration

Sequential Write Speed

Up to 520 MB/s Sequential Write * Performance may vary based on system hardware & configuration

Random Read Speed

Random Read (4KB, QD32): Up to 98,000 IOPS Random Read Random Read (4KB, QD1): Up to 10,000 IOPS Random Read

* Performance may vary based on system hardware & configuration

Random Write Speed

Random Write (4KB, QD32): Up to 90,000 IOPS Random Write Random Write (4KB, QD1): Up to 42,000 IOPS Random Write

* Performance may vary based on system hardware & configuration

Controller

Samsung MJX Controller

NAND Flash

Samsung V-NAND 3bit MLC

Cache Memory

Samsung 512 MB Low Power DDR4 SDRAM

Trim Support

Yes

AES Encryption

AES 256-bit Encryption (Class 0)TCG/Opal IEEE1667 (Encrypted drive)

S.M.A.R.T. Support

Yes

GC (Garbage Collection)

Auto Garbage Collection Algorithm

WWN Support

World Wide Name supported

Device Sleep Mode Support

Yes

Internal Storage

Yes

- General

Power Consumption (W)

*Average: 2.2 W

*Maximum: 4.0 W (Burst mode)

* Actual power consumption may vary depending on system hardware & configuration

Reliability (MTBF)

1.5 Million Hours Reliability (MTBF)

- Environmental Specs

Operating Temperature

0 - 70 °C Operating Temperature

Shock

1,500G & 0.5ms (Half sine)

- Form Factor

Product

2.5" SATA III

- Dimensions (W x D x H)

Product

3.94" X 2.76" X 0.27"

- Weight

Product

0.19 lbs.

- Software

Management SW

Magician Software for SSD management

- Warranty

Product

5 Years Limited Warranty or 300 TBW Limited Warranty