

500GB 2.5-inch SSD 840 SATA III (Basic)

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MZ-7TD500

#dwiqj:

6 REVIEWS

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General Features

Compatible Device: Desktop PC & Laptop PC

500GB (1GB=1Billionbyte by IDEMA) * Actual usable capacity may be less (due to formatting, partitioning, operating system, applications or otherwise)

2.5 inch Form Factor

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

100 x 69.85 x 6.8 (mm) Dimension

Max 54g Weight

Samsung 2x nm Toggle DDR 2.0 NAND Flash Memory (400Mbps)

Samsung 3-core MDX Controller

Samsung 512MB Low Power DDR2 SDRAM cache memory

Special Feature

TRIM Supported

S.M.A.R.T Supported

Auto Garbage Collection Algorithm

AES 256bit Full Disk Encryption (Class 0)

World Wide Name supported

Software

Magician Software for SSD management

Performance

Up to 540MB/sec Sequential Read* Performance may vary based on system hardware & configuration

Up to 330MB/sec Sequential Write* Performance may vary based on system hardware & configuration

Up to 98000 IOPS Random Read* Performance may vary based on system hardware & configuration

Up to 70000 IOPS Random Write* Performance may vary based on system hardware & configuration

Up to 7900 IOPS Random Read* Performance may vary based on system hardware & configuration

Up to 29000 IOPS Random Write* Performance may vary based on system hardware & configuration

Warranty

3 Years Limited Warranty with recommended usage for desktop and laptop PCs

Environment

0.071 Watts Average power use (Typical)* Average power is measured during execution of Mobilemark2007 in windows7* Actual power consumption may vary depending on system hardware & configuration

0.046 Watts (Typical, DIPM enabled value), 0.279 Watts (Typical, DIPM disabled value)* Actual power consumption may vary depending on system hardware & configuration

5V ± 5% Allowable voltage

1.5 Million Hours Reliability (MTBF)

0 - 70°C Operating Temperature

1500G & 0.5ms (Half sine)