



General Feature

Application

Client PCs

Capacity

1,000 GB (1 GB=1 Billionbyte 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)

100 x 69.85 x 6.8 mm

Weight

Max. 55 g

Storage Memory

Samsung V-NAND

Controller

Samsung MGX Controller

Cache Memory

Samsung 1 GB Low Power DDR3

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

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Performance

Sequential Read

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

Sequential Write

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

Random Read (4KB, QD32)

Up to 98,000 IOPS Random Read * Performance may vary based on system hardware & configuration

Random Write (4KB, QD32)

Up to 90,000 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 40,000 IOPS Random Write * Performance may vary based on system hardware & configuration

Environment

Average Power Consumption (system level)

*Average: 2.7 W *Maximum: 4.4 W (Burst mode) *
Actual power consumption may vary depending on system hardware & configuration

Power consumption (Idle)

Max. 50 mW * Actual power consumption may vary depending on system hardware & configuration

Allowable Voltage

5V \pm 5% Allowable voltage

Reliability (MTBF)

1.5 Million hours Reliability (MTBF)

Operating Temperature

0 - 70 °C Operating Temperature

Shock

1,500 G & 0.5 ms (Half sine)

Accessories

Installation Kit

Not Available

Software

Management SW

Magician Software for SSD management

Warranty

Warranty

5 Years Limited Warranty or 150 TBW Limited Warranty

