

Specifications

Interface	Sequential Read
SATA 6 Gb/s Interface, compatible with SATA 3 Gb/s & SATA 1.5 Gb/s interface	Up to 560 MB/s Sequential Read * Performance may vary based on system hardware & configuration
Sequential Write	Warranty
Up to 530 MB/s Sequential Write * Performance may vary based on system hardware & configuration...	5 Years Limited Warranty or 1,200 TBW Limited Warranty
Application	Weight
Client PCs	Apporx. 46.0g Weight

General Feature	Application	Capacity
	Client PCs	2,000 GB (1 GB=1 Billion byte by IDE be less (due to formatting, partitioning or otherwise)
	Form Factor	Interface
	2.5 inch	SATA 6 Gb/s Interface, compatible with interface
	Dimension (WxHxD)	Weight
	100 X 69.85 X 6.8 (mm)	Apporx. 46.0g Weight
	Storage Memory	Controller
	Samsung V-NAND 3bit MLC	Samsung MKX Controller
	Cache Memory	
	Samsung 2 GB Low Power DDR4 SDRAM	

Special Feature	TRIM Support	S.M.A.R.T Support
	TRIM Supported	S.M.A.R.T Supported
	GC (Garbage Collection)	Encryption Support
	Auto Garbage Collection Algorithm	AES 256-bit Encryption (Class 0),TC drive)
	WWN Support	Device Sleep Mode Support
	World Wide Name supported	Yes

Performance	Sequential Read	Sequential Write
	Up to 560 MB/s Sequential Read * Performance may vary based on system hardware & configuration	Up to 530 MB/s Sequential Write * Performance may vary based on system hardware & configuration ** Measured with Intelligent TurboWrite technology being activated
	Random Read (4KB, QD32)	Random Write (4KB, QD32)
	Up to 98,000 IOPS Random Read * Performance may vary based on system hardware & configuration ** Measured with Intelligent TurboWrite technology being activated	Up to 88,000 IOPS Random Write * Performance may vary based on system hardware & configuration ** Measured with Intelligent TurboWrite technology being activated

Random Read (4KB, QD1) Up to 13,000 IOPS Random Read * Performance may vary based on system hardware & configuration ** Measured with Intelligent TurboWrite technology being activated	Random Write (4KB, QD1) Up to 36,000 IOPS Random Write * P system hardware & configuration ** M TurboWrite technology being activate
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Environment

Average Power Consumption (system level) Average: 2.5 W *Maximum: 4.5 W (Burst mode)* Actual power consumption may vary depending on system hardware & configuration	Power consumption (Idle) Max. 35 mW * Actual power consump system hardware & configuration
Allowable Voltage 5V ± 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
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Software

Management SW Magician Software for SSD management, Data Migration Software for SSD upgrade

Warranty

5 Years Limited Warranty or 1,200 TBW Limited Warranty
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