

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 300 TBW Limited Warranty
Application	Weight
Client PCs	Apporx. 45.0g Weight

General Feature	Application	Capacity
	Client PCs	500 GB (1 GB=1 Billion byte by IDEM 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. 45.0g Weight
	Storage Memory	Controller
	Samsung V-NAND 3bit MLC	Samsung MKX Controller
	Cache Memory	
	Samsung 512 MB 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), TCG 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: 2.2 W *Maximum: 3.5 W (Burst mode)* Actual power consumption may vary depending on system hardware & configuration	Power consumption (Idle) Max. 30 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 300 TBW Limited Warranty
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