

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...	3 Years Limited Warranty or 360 TBW Limited Warranty
Application	Weight
Client PCs	Apporx. 46.0g Weight

General Feature	Application	Capacity
	Client PCs	1,000 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 SATA 6 Gb/s interface
	Dimension (WxHxD)	Weight
	100 X 69.85 X 6.8 (mm)	Apporx. 46.0g Weight
	Storage Memory	Controller
	Samsung V-NAND 4bit MLC	Samsung MKX Controller
	Cache Memory	
	Samsung 1 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), TCG Opal 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

<b>Random Read (4KB, QD1)</b> Up to 11,000 IOPS Random Read * Performance may vary based on system hardware & configuration ** Measured with Intelligent TurboWrite technology being activated	<b>Random Write (4KB, QD1)</b> Up to 35,000 IOPS Random Write * P system hardware & configuration ** M TurboWrite technology being activate
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Environment

<b>Average Power Consumption (system level)</b> Average: 2.2 W *Maximum: 4.0 W (Burst mode)* Actual power consumption may vary depending on system hardware & configuration	<b>Power consumption (Idle)</b> Max. 30 mW * Actual power consump system hardware & configuration
<b>Allowable Voltage</b> 5V ± 5% Allowable voltage	<b>Reliability (MTBF)</b> 1.5 Million Hours Reliability (MTBF)
<b>Operating Temperature</b> 0 - 70 °C Operating Temperature	<b>Shock</b> 1,500 G & 0.5 ms (Half sine)

Accessories

<b>Installation Kit</b> Not Available
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Software

<b>Management SW</b> Magician Software for SSD management
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Warranty

3 Years Limited Warranty or 360 TBW Limited Warranty
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