

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 600 TBW Limited Warranty
Application	Weight
Client PCs	Apporx. 45.0g 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 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 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 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 13,000 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 36,000 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: 2.5 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, Data Migration Software for SSD upgrade
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Warranty

5 Years Limited Warranty or 600 TBW Limited Warranty
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