

Specifications

Interface	Sequential Read
PCIe Gen 3.0 x4, NVMe 1.4	Up to 3,100 MB/s * Performance may vary based on system hardware & configuration
Sequential Write	Warranty
Up to 2,600 MB/s * Performance may vary based on system hardware & configuration	5-Year Limited Warranty or 300 TBW Limited Warranty
Application	Weight
Client PCs	Max 8.0 g Weight

General Feature	Application	Capacity
	Client PCs	500GB (1GB=1 Billion byte by IDEMA less (due to formatting, partitioning, or otherwise)
	Form Factor	Interface
	M.2 (2280)	PCIe Gen 3.0 x4, NVMe 1.4
	Dimension (WxHxD)	Weight
	80.15 x 22.15 x 2.38 (mm)	Max 8.0 g Weight
	Storage Memory	Controller
	Samsung V-NAND 3-bit MLC	Samsung in-house controller
	Cache Memory	
	HMB(Host Memory Buffer)	

Special Feature	TRIM Support	S.M.A.R.T Support
	Supported	Supported
	GC (Garbage Collection)	Encryption Support
	Auto Garbage Collection Algorithm	AES 256-bit Encryption (Class 0)TCG drive)
	WWN Support	Device Sleep Mode Support
	Not supported	Yes

Performance	Sequential Read	Sequential Write
	Up to 3,100 MB/s * Performance may vary based on system hardware & configuration	Up to 2,600 MB/s * Performance may & configuration
	Random Read (4KB, QD32)	Random Write (4KB, QD32)
	Up to 400,000 IOPS* Performance may vary based on system hardware & configuration	Up to 470,000 IOPS * Performance m hardware & configuration

<b>Random Read (4KB, QD1)</b> Up to 17,000 IOPS * Performance may vary based on system hardware & configuration	<b>Random Write (4KB, QD1)</b> Up to 54,000 IOPS * Performance may vary based on system hardware & configuration
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Environment

<b>Average Power Consumption (system level)</b> *Average: 4.3 W*Maximum: 5.9 W (Burst mode)* Actual power consumption may vary depending on system hardware & configuration	<b>Power consumption (Idle)</b> Max. 45 mW * Actual power consumption may vary depending on system hardware & configuration
<b>Allowable Voltage</b> 3.3 V ± 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

5-Year Limited Warranty or 300 TBW Limited Warranty
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