

Specifications

Interface	Sequential Read
PCIe Gen 4.0 x4, NVMe 1.3c	Up to 7,000 MB/s * Performance may vary based on system hardware & configuration
Sequential Write	Warranty
Up to 5,000 MB/s * Performance may vary based on system hardware & configuration	5-Year Limited Warranty or 600 TBW Limited Warranty
Application	Weight
Client PCsClient PCs	Max 9.0 g Weight

General Feature	Application	Capacity
	Client PCsClient PCs	1,000GB (1GB=1 Billion byte by IDE) be less (due to formatting, partitioning or otherwise)
	Form Factor	Interface
	M.2 (2280)	PCIe Gen 4.0 x4, NVMe 1.3c
	Dimension (WxHxD)	Weight
	80.15 x 22.15 x 2.38 (mm)	Max 9.0 g Weight
	Storage Memory	Controller
	Samsung V-NAND 3-bit MLC	Samsung Elpis Controller
	Cache Memory	
	Samsung 1GB Low Power DDR4 SDRAM	

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 7,000 MB/s * Performance may vary based on system hardware & configuration	Up to 5,000 MB/s * Performance may & configuration
	Random Read (4KB, QD32)	Random Write (4KB, QD32)
	Up to 1,000,000 IOPS * Performance may vary based on system hardware & configuration	Up to 1,000,000 IOPS * Performance hardware & configuration

<b>Random Read (4KB, QD1)</b> Up to 22,000 IOPS * Performance may vary based on system hardware & configuration	<b>Random Write (4KB, QD1)</b> Up to 60,000 IOPS * Performance may vary based on system hardware & configuration
--------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------

Environment

<b>Average Power Consumption (system level)</b> *Average: 6.2 W *Maximum: 8.9 W (Burst mode) * Actual power consumption may vary depending on system hardware & configuration	<b>Power consumption (Idle)</b> Max. 35 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
------------------------------------------

Software

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

Warranty

5-Year Limited Warranty or 600 TBW Limited Warranty
-----------------------------------------------------