

Specifications

Interface	Sequential Read
PCIe Gen 4.0 x4, NVMe 1.3c	Up to 6,900 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 300 TBW Limited Warranty
Application	Weight
Client PCs	Max 9.0 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 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 512MB 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 6,900 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 800,000 IOPS* Performance may vary based on system hardware & configuration	Up to 1,000,000 IOPS * Performance hardware & configuration

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

Environment

Average Power Consumption (system level) *Average: 5.9 W *Maximum: 7.4 W (Burst mode) * Actual power consumption may vary depending on system hardware & configuration	Power consumption (Idle) Max. 35 mW * Actual power consumption may vary depending on system hardware & configuration
Allowable Voltage 3.3 V ± 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
--

Software

Management SW Magician Software for SSD management
--

Warranty

5-Year Limited Warranty or 300 TBW Limited Warranty
