

Specifications

Interface	Sequential Read
PCIe Gen 3.0 x4, NVMe 1.4	Up to 3,500 MB/s * Performance may vary based on system hardware & configuration
Sequential Write	Warranty
Up to 3,000 MB/s * Performance may vary based on system hardware & configuration	5-Year Limited Warranty or 600 TBW Limited Warranty
Application	Weight
Client PCs	Max 8.0 g Weight

General Feature

Application
Client PCs

Capacity

1,000GB (1GB=1 Billion byte by IDEMA) * Actual usable capacity may be less (due to formatting, partitioning, operating system, applications or otherwise)

Form Factor
M.2 (2280)

Interface

PCIe Gen 3.0 x4, NVMe 1.4

Dimension (Pack: WxHxD)
80.15 x 22.15 x 2.38 (mm)

Weight

Max 8.0 g Weight

Storage Memory
Samsung V-NAND 3-bit MLC

Controller
Samsung Pablo Controller

Cache Memory
HMB(Host Memory Buffer)

Special Feature

TRIM Support
Supported

S.M.A.R.T Support
Supported

GC (Garbage Collection)
Auto Garbage Collection Algorithm

Encryption Support
AES 256-bit Encryption (Class 0)TCG/Opal IEEE1667 (Encrypted drive)

WWN Support
Not supported

Device Sleep Mode Support
Yes

Performance

Sequential Read
Up to 3,500 MB/s * Performance may vary based on system hardware & configuration

Sequential Write
Up to 3,000 MB/s * Performance may vary based on system hardware & configuration

Random Read (4KB, QD32)
Up to 500,000 IOPS * Performance may vary based on system hardware & configuration

Random Write (4KB, QD32)
Up to 480,000 IOPS * Performance may vary based on system hardware & configuration

Random Read (4KB, QD1)
Up to 17,000 IOPS * Performance may vary based on system hardware & configuration

Random Write (4KB, QD1)
Up to 54,000 IOPS * Performance may vary based on system hardware & configuration

Environment

Average Power Consumption (system level)

*Average: 4.6 W*Maximum: 5.3 W (Burst mode)* Actual power consumption may vary depending on system hardware & configuration

Power consumption (Idle)

Max. 45 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 600 TBW Limited Warranty
