

Type

Product Type ?
NVMe SSD

Read/Write Speeds
3,500/3,300 MB/s

Application ?
Consumer
Yes

Storage

Capacity ?
1TB

Key Features

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

Storage Type
Internal

Usage Application ?
Client PCs

Sequential Write Speed ?
Up to 3,300 MB/s * Performance
may vary based on system
hardware & configuration

Interface ?
PCIe Gen 3.0 x 4, NVMe 1.3

Series ?
970 EVO Plus

Random Read Speed ?
Random Read (4KB, QD32): Up
to 600,000 IOPS; Random Read
(4KB, QD1): Up to 19,000 IOPS *
Performance may vary based on
system hardware &
configuration

Random Write Speed ?

Random Write (4KB, QD32): Up to 550,000 IOPS; Random Write (4KB, QD1): Up to 60,000 IOPS *
Performance may vary based on system hardware & configuration

Cache Memory

Samsung 1GB Low Power DDR4 SDRAM

Security

AES 256-bit Full Disk Encryption, TCG/Opal V2.0, Encrypted Drive (IEEE1667)

WWN Support

Not supported

Controller ?

Samsung Phoenix Controller

Trim Support ?

Supported

S.M.A.R.T. Support ?

Supported

Device Sleep Mode

Support ?
Yes

NAND Flash ?

Samsung V-NAND 3-bit MLC

AES Encryption ?

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

GC (Garbage Collection) ?

Auto Garbage Collection Algorithm

Temperature proof ?

Yes

General**Average Power****Consumption (system****level)** ?

* Average: 6 W * Maximum: 9 W (Burst mode) * Actual power consumption may vary depending on system hardware & configuration

Reliability (MTBF) ?

1.5 Million Hours Reliability (MTBF)

Environmental Specs**Operating Temperature** ?

0 - 70 °C Operating Temperature

Power consumption (Idle) ?

Max. 30 mW * Actual power consumption may vary depending on system hardware & configuration

Voltage ?

3.3 V ± 5 % Allowable voltage

Shock ?

1,500 G & 0.5 ms (Half sine)

Form Factor**Product** ?

M.2 (2280)