

Technical Specifications

Weight & Dimensions

Width:	69.8 mm
Depth:	100.5 mm
Height:	7 mm

Power

Operating Voltage:	5 V
Power Consumption (read):	2.8 W
Power Consumption (write):	4.26 W
Power Consumption (max):	4.26 W
Power Consumption (average):	3.53 W
Power Consumption (idle):	0.54 W

Operational Conditions

Operating Temperature (T-T):	0 - 70 °C
Storage Temperature (T-T):	-45 - 105 °C
Operating Relative Humidity (H-H):	5 - 98%
Storage Relative Humidity (H-H):	5 - 98%
Operating Vibration:	16 G
Non-operating Vibration:	20 G
Operating Shock:	1500 G
Non-operating Shock:	1500 G
Maximum Operating Altitude:	36576 m

Packaging Data

Storage Drive Adapter Included:	No
Screws Included:	No
Package Type:	Blister

Other Features

Internal:	Yes
Internal Memory Type:	TLC
Compliance Certificates:	RoHS
Compatible Products:	Universal

Features

SSD Capacity:	1 TB
SSD Form Factor:	3.5"
Interface:	Serial ATA
NVMe:	No
Memory Type:	QLC
Component For:	PC/Laptop
Hardware Encryption:	No
NAND Flash Type:	TLC (Triple Level Cell)
Security Algorithms:	256-bit AES
Data Transfer Rate:	6 Gbit/s
Read Speed:	550 MB/s
Write Speed:	500 MB/s
Random Read (4KB):	53760 IOPS
Random Write (4KB):	56320 IOPS
Access Time:	0.1 ms

Seek Time:	0 ms
Controller Type:	Samsung MGX
DevSlp (device Sleep) Support:	Yes
S.M.A.R.T. Support:	Yes
TRIM Support:	Yes
Hot-swap:	No
IEEE 1667:	Yes
Mean Time Between Failures (MTBF):	1000000 h
Active Garbage Collection:	Yes
Windows Operating Systems Supported:	Yes
Opal SSC 2.0:	Yes
Linux Operating Systems Supported:	Yes
TBW Rating:	100

Logistics Data

Harmonized System (HS) Code:	84717070
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