

Product Specification

512GB M.2 2242 NVMe Gen3 x 4PCIe SSD



The Integral Memory M.2 2242 NVMe Gen 3 x4 PCIe SSD's compact 2242 form factor is intended to upgrade even the most space-constrained devices including PCs, NUCs, and ultra-thin tablets and laptops.

- M.2 2242 NVMe 1.3 PCIe Gen3 x4 SSD (PCI Express Gen3: Single port X4 lanes)
- Compact form factor compatible with PCs, NUCs, Ultra-thin laptops and tablets, including Acer, Alienware, Dell, HP and Lenovo
- Formidable 3400MB/s read and 3000MB/s write speeds for outstanding processing capabilities
- Size: 2242 (22x42mm)
- Easy to install and set-up
- Supports SMART and TRIM commands as well as HMB and AES 256
- Sophisticated error detection and correction (LDPC ECC) functions, data retention (JESD47 compliant), Dynamic and Static Wear-Levelling & Bad Block Management
- 5-year limited warranty or TBW - whichever is earlier applies

SKU	INSSD512GM2242G3
EAN	5055288449961

	Width (mm)	Depth (mm)	Height (mm)	Weight (g)
Product	22	0.8	42	3
Packaging	55	12	90	10

Capacity	512GB
Component For	PCs, NUCs & Laptops
Form Factor	PCIe Gen3 x 4
Mean time between failures (MTBF) (hour)	1000000
TBW Rating	365
Flash Type	TLC
NVMe (Y/N)	Y
S.M.A.R.T support (Y/N)	Y
TRIM support (Y/N)	Y
Read speed (MB per second)	3300
Write speed (MB per second)	2700
Operating Voltage (Volt)	3.3
Power Consumption (Read) (Watt)	2.79
Power Consumption (Write) (Watt)	3.34
Hardware Encryption (Y/N)	N

Interface	PCIe Gen3 x 4
Operating temperature (T-T) (Degrees Celcius)	0 - -70
Storage temperature (T-T) (Degrees Celcius)	-45 - 85
Sustainability Certificates	RoHS
Certification	UKCA, CE, FCC, RoHS