

Product Specification

512 GB m2 Series M.2 2280 PCIe NVMe SSD



The M2 Series M.2 PCIe NVMe SSDs are up to seven times faster in performance when compared to SATA SSDs and are compatible with most computing hardware and software that support the NVME standard, including small form factor machines (e.g Intel NUC), Ultrabooks and enthusiast desktops

- PCIe Gen3x4
- Compliant with PCI Express Base Specification Rev 3.1
- Compliant with NVMe 1.4
- Non-volatile Flash Memory for outstanding data retention
- Ultra-efficient Block Management and Wear Levelling
- Supports S.M.A.R.T. - Self-Monitoring, Analysis and Reporting Technology
- 3 year warranty or TBW - whichever is earlier applies

SKU	INSSD512GM280NM2
EAN	5055288447356

	Width (mm)	Depth (mm)	Height (mm)	Weight (g)
Product	22	80	2.25	10
Packaging	13.2	5.7	11.5	58

Capacity (GB)	512 GB
Component for	PC/Notebook
Form factor	M.2
Mean time between failures (MTBF) (hour)	1500000
TBW rating	256
Flash type	3D TLC
NVMe (Y/N)	Y
Controller type	InnoGrit 5216
S.M.A.R.T. support (Y/N)	Y
TRIM support (Y/N)	Y
Data transfer rate (GB per second)	8
Read speed (MB per second)	3450
Write speed (MB per second)	2400
Random read (4KB) (Input/Output Operations Per Second)	188000
Random write (4KB) (Input/Output Operations Per Second)	156000
Operating voltage (Volt)	3.3
Power consumption (read) (Watt)	2822
Power consumption (write) (Watt)	2970
Hardware encryption (Y/N)	N

Interface	PCI Express 3.1
Operating temperature (T-T) (degrees Celcius)	0 - 70
Storage temperature (T-T) (degrees Celcius)	-40 - 85
Operating relative humidity (H-H) (percent)	5 - 95
Certification	CE, FCC