

# Product Specification

## 500 GB M3 SERIES M.2 2280 PCIE GEN4 NVME SSD



With up to 2X faster IOPS than Gen3, the M3 Series range is an excellent value upgrade to Gen4 to maximise the performance of your device (Gen3 backwards compatible). These SSDs reach speeds of up to 3550MB/s read, 2700MB/s write (Sequential Speed) and 340K IOPS read, 550K write (Random Speed).

- High-speed Gen4 SSD up to 3500MB/s read, 2600MB/s write (Sequential Speed); up to 220K IOPS read, 500K IOPS write (Random Speed)
- Premium computing experience - Excellent loading times and responsiveness for enthusiast gamers, video editors, graphic designers and big data applications
- Install and boot in seconds - Fits into the latest motherboards and computers that support M.2 NVMe PCIe Gen4 x4 connection
- Extremely small and sleek - Perfect for all customised gaming builds
- TCG Pyrite encryption
- 5 year warranty or TBW - whichever is earlier applies

<b>SKU</b>	INSSD500GM280NM3
<b>EAN</b>	5055288449022

	Width (mm)	Depth (mm)	Height (mm)	Weight (g)
<b>Product</b>	22	80	0.8	6.4
<b>Packaging</b>	55	10	155	37.8

<b>Capacity (GB)</b>	500 GB
<b>Component for</b>	PC
<b>Form factor</b>	M.2
<b>Mean time between failures (MTBF) (hour)</b>	1500000
<b>TBW rating</b>	280
<b>Flash type</b>	TLC
<b>NVMe (Y/N)</b>	Y
<b>Controller type</b>	Phison E19T
<b>S.M.A.R.T. support (Y/N)</b>	Y
<b>TRIM support (Y/N)</b>	Y
<b>Read speed (MB per second)</b>	3500
<b>Write speed (MB per second)</b>	2600
<b>Random read (4KB) (Input/Output Operations Per Second)</b>	220000
<b>Random write (4KB) (Input/Output Operations Per Second)</b>	500000
<b>Operating voltage (Volt)</b>	3.47
<b>Power consumption (read) (Watt)</b>	3.5
<b>Power consumption (write) (Watt)</b>	3.7
<b>Hardware encryption (Y/N)</b>	N
<b>TCG OPAL 2.0 Compliant</b>	TCG PYRITE

<b>Protection features</b>	Shock resistant
<b>Interface</b>	PCIe Gen4x4
<b>Operating temperature (T-T) (degrees Celcius)</b>	0 - 70
<b>Storage temperature (T-T) (degrees Celcius)</b>	-40 - 85
<b>Operating relative humidity (H-H) (percent)</b>	0 - 90
<b>Sustainability certificates</b>	RoHS
<b>Certification</b>	UKCA, CE, FCC, RoHS