

# Product Specification

## 512GB M.2 2230 NVMe Gen3 x 4PCIe SSD



The Integral Memory M.2 2230 NVMe Gen3 x4 PCIe SSD's compact 2230 form factor is designed to upgrade even the most space limited devices including the Valve Steam Deck, ASUS ROG Ally, Microsoft Surface Pro and other ultra-thin tablets and laptops

- Compact form factor compatible with PCs, NUCs, Microsoft Surface Pro Series, Ultra-thin laptops and tablets, and portable gaming devices
- Guaranteed to work with and fit the Valve Steam Deck and ASUS ROG Ally handheld gaming consoles
- M.2 2230 NVMe 1.3 PCIe Gen3 x4 SSD (PCI Express Gen3: Single port X4 lanes)
- Formidable 3400MB/s read and 3000MB/s write speeds for outstanding processing capabilities
- Size: 2230 (22x30mm)
- Easy to install
- 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

<b>SKU</b>	INSSD512GM2230G3
<b>EAN</b>	5055288449992

	<b>Width (mm)</b>	<b>Depth (mm)</b>	<b>Height (mm)</b>	<b>Weight (g)</b>
<b>Product</b>	22	0.8	30	2
<b>Packaging</b>	55	12	90	8

<b>Capacity</b>	512GB
<b>Component For</b>	Steam Deck, PCs, NUCs, ROG Ally, Microsoft Surface Pro Series, Dell, HP, Lenovo Ultrabooks & Tablets
<b>Form Factor</b>	PCIe Gen3 x 4
<b>Mean time between failures (MTBF) (hour)</b>	1000000
<b>TBW Rating</b>	365
<b>Flash Type</b>	TLC
<b>NVMe (Y/N)</b>	Y
<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>	3400
<b>Write speed (MB per second)</b>	3000
<b>Operating Voltage (Volt)</b>	3.3
<b>Power Consumption (Read) (Watt)</b>	2.66
<b>Power Consumption (Write) (Watt)</b>	2.97
<b>Hardware Encryption (Y/N)</b>	N

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