

# Product Specification

## 512 GB M.2 2280 SATA III SSD (2020 MODEL)



The M.2 2280 form factor brings the speed and reliability of Solid State Drives to a much lower profile so you can add those benefits to laptops and ultrabooks. The form's increasing popularity means that many desktop motherboards are also compatible with these super fast, super quiet, super reliable drives.

- M.2 2280 form factor with SATA III 6Gbps interface (backwards compatible with SATA 3Gbps and SATA 1.5Gbps)
- Supports 'M' & 'B' Key sockets
- Performance: Faster boot than HDD, Faster access to applications, enhanced productivity and increased efficiency
- Fully compatible with devices and OS that support the SATA standard with M.2 M and B socket
- Shock resistance - No moving parts enable the product to be used in tougher conditions
- Supports S.M.A.R.T. - Self-Monitoring, Analysis and Reporting Technology
- RoHS compliant
- CE and FCC tested
- 3 year warranty or TBW - whichever is earlier applies

<b>SKU</b>	INSSD512GM280
<b>EAN</b>	5055288444881

	<b>Width (mm)</b>	<b>Depth (mm)</b>	<b>Height (mm)</b>	<b>Weight (g)</b>
<b>Product</b>	80	2.25	22	6
<b>Packaging</b>	120	8	64	15

<b>Capacity (GB)</b>	512 GB
<b>Component for</b>	PC/Notebook
<b>Form factor</b>	M.2
<b>ECC (Y/N)</b>	Y
<b>Mean time between failures (MTBF) (hour)</b>	1500000
<b>Flash type</b>	3D TLC NAND
<b>Controller type</b>	Phison S12
<b>S.M.A.R.T. support (Y/N)</b>	Y
<b>TRIM support (Y/N)</b>	Y
<b>Data transfer rate (megabit per second)</b>	6
<b>Read speed (MB per second)</b>	520 MB/s
<b>Write speed (MB per second)</b>	450 MB/s
<b>Power consumption (write) (Watt)</b>	3.3

<b>Protection features</b>	Shock resistant
<b>Interface</b>	Serial ATA III
<b>Operating temperature (T-T) (degrees Celcius)</b>	0 - 40
<b>Storage temperature (T-T) (degrees Celcius)</b>	-40 - 85
<b>Operating relative humidity (H-H) (percent)</b>	5 - 90
<b>Sustainability certificates</b>	RoHS
<b>Certification</b>	CE, FCC