

# Product Specification

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



FIPS 140-2 Level 3 Validated - Integral Crypto SSD SATA III M.2 2280 is the Full Disk Encryption solution for Windows laptops and Ultrabooks. If an ultrabook or laptop with an Integral Crypto SSD SATA III M.2 installed is lost or stolen, sensitive data is secure and cannot be accessed without the high-strength password. When the system is shut down, 256-bit full disk encryption is instigated.

- Mandatory encryption
- Secure Entry - Encrypted data cannot be accessed without the correct high-strength 8-16 character alphanumeric password. Before use a high-strength password must be set
- Tamper-proof Design - The electronics are sealed in tamperfree epoxy resin
- FIPS 140-2 Level 3 Validated - Certificate No. 3970
- High-speed Read/Write - up to 550MB/s\* and 530MB/s\*
- Quick Boot - Using a solid state disk in place of a traditional hard drive can cut your desktop computer or laptop's boot time in half
- Shockproof - no moving parts, so a greater resistance to shock and vibration than HDD
- Silent operation and low heat for a comfortable user experience
- Low power usage - laptop battery will last far longer with SSD than HDD
- Endpoint security software compatible - The Integral Crypto SSD operates comfortably with endpoint security solutions by using the configurable hardware unique ID feature, which is part of the program
- BIOS Independent - Crypto SSD security system runs independently of your system BIOS, unlike other hardware encrypted SSDs
- Seamless encryption - unnoticeable to the user
- Admin and User passwords are configurable
- 3 year warranty

<b>SKU</b>	INSSD512GM280C140
<b>EAN</b>	5055288445079

	<b>Width (mm)</b>	<b>Depth (mm)</b>	<b>Height (mm)</b>	<b>Weight (g)</b>
<b>Product</b>	22	3.9	80	9
<b>Packaging</b>	125	16	195	69

<b>Capacity (GB)</b>	512
<b>Component for</b>	PC/Notebook
<b>Form factor</b>	M.2
<b>ECC (Y/N)</b>	Y
<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>Data transfer rate (GB per second)</b>	6
<b>Read speed (MB per second)</b>	550
<b>Write speed (MB per second)</b>	530
<b>Random read (4KB) (Input/Output Operations Per Second)</b>	980000
<b>Random write (4KB) (Input/Output Operations Per Second)</b>	910000
<b>Sequential read speed (ATTO) (MB per second)</b>	550
<b>Sequential write speed (ATTO) (MB per second)</b>	530
<b>Encryption standard</b>	256-bit AES

Encryption certification	FIPS 140-2 Level 3
Hardware encryption (Y/N)	Y
Interface	SATA III 6Gbps
Operating temperature (T-T) (degrees Celcius)	0 - 70
Storage temperature (T-T) (degrees Celcius)	-40 - 85
Certification	CE, FCC, UKCA