

Product Specification

512 GB CRYPTO M.2 2280 PCIe NVME SSD (2020 MODEL)



FIPS 140-2 Level 3 Validated - Certificate No. 3970. Integral Crypto M.2 2280 PCIe NVMe SSD is the Full Disk Encryption solution for Windows laptops and Ultrabooks. If an ultrabook or laptop with an Integral Crypto M.2 2280 PCIe NVMe SSD 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 3400MB/s* and 3100MB/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

SKU	INSSD512GM280NC140
EAN	5055288445130

	Width (mm)	Depth (mm)	Height (mm)	Weight (g)
Product	22	3.9	80	10
Packaging	125	16	195	70

Capacity (GB)	512
Component for	PC/Notebook
Form factor	M.2
ECC (Y/N)	Y
Mean time between failures (MTBF) (hour)	1800000
Flash type	TLC
NVMe (Y/N)	Y
S.M.A.R.T. support (Y/N)	Y
TRIM support (Y/N)	Y
Data transfer rate (GB per second)	6
Read speed (MB per second)	3400
Write speed (MB per second)	2400
Random read (4KB) (Input/Output Operations Per Second)	420000
Random write (4KB) (Input/Output Operations Per Second)	635000
Sequential read speed (ATTO) (MB per second)	3400
Sequential write speed (ATTO) (MB per second)	2400

Operating voltage (Volt)	3.3
Encryption standard	256-bit AES
Encryption certification	FIPS 140-2 Level 3
Hardware encryption (Y/N)	Y
Interface	NVMe PCIe Gen 3x4
Operating temperature (T-T) (degrees Celcius)	0 - 70
Storage temperature (T-T) (degrees Celcius)	-40 - 85
Certification	CE, FCC, UKCA