



Product Datasheet

Inception SSD 512GB NVMe M.2 3D TLC 80mm



- **Product Code:** 1D0H7AA#AC3-OS
- **Product EAN:** 5059902008312
- **Warranty:** Return To Base - 3 Years

Origin Storage Ltd manufactures a full range of Matched SSD Solutions for most major branded Servers, laptops and desktops, such as Dell, HP, Toshiba, and Lenovo. All of our Matched SSD Solutions come with up to 5 years advanced replacement warranty and also come with free pre and post sales technical support. We can supply replacements or upgrades in form factors of 2.5" or 3.5", M.2 & AIC with either SATA, SAS or PCIe interfaces respectively, available in a range of capacities and drive write endurances for laptop, desktop or Server. All our Matched SSD Solutions are just that, matched to the system you have for 100% compatibility, right first time, every time!

Technical Specifications

Power

Operating Voltage:	3.3 V
Power Consumption (read):	2.84 W
Power Consumption (write):	3.22 W
Power Consumption (max):	3.22 W
Power Consumption (average):	3.03 W
Power Consumption (idle):	0.47 W

Operational Conditions

Operating Temperature (T-T):	0 - 70 °C
Storage Temperature (T-T):	-45 - 105 °C
Operating Relative Humidity (H-H):	5 - 98%
Storage Relative Humidity (H-H):	5 - 98%
Operating Vibration:	16 G
Operating Shock:	1500 G
Maximum Operating Altitude:	36576 m

Packaging Data

Storage Drive Adapter Included:	No
Screws Included:	No
Package Type:	Blister

Other Features

Compliance Certificates:	RoHS
Compatible Products:	Universal

Features

SSD Capacity:	512 GB
SSD Form Factor:	M.2
Interface:	PCI Express 3.0
NVMe:	Yes
Memory Type:	3D TLC
Component For:	PC/Laptop
Hardware Encryption:	No
Data Transfer Rate:	640 Gbit/s
Read Speed:	2100 MB/s
Write Speed:	1900 MB/s
Random Read (4KB):	179000 IOPS
Random Write (4KB):	102000 IOPS
Access Time:	0.2 ms
Seek Time:	0 ms
S.M.A.R.T. Support:	Yes
TRIM Support:	Yes
Hot-swap:	No
Mean Time Between Failures (MTBF):	1000000 h
Windows Operating Systems Supported:	Yes
Linux Operating Systems Supported:	Yes
TBW Rating:	100

Logistics Data

Harmonized System (HS) Code:	84717070
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Origin Storage Limited

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