



Product Datasheet

Inception TLC830 Pro Series 512GB MSATA 3D TLC SSD



- **Product Code:** OTLC5123DMSATA
- **Product EAN:** 5056006154266
- **Warranty:** 3 Year Advanced Replacement

The Inception TLC830 Pro range of SSD Solutions are manufactured by Origin using the highest quality Tier 1 NAND and the latest generation of controllers which enables us to provide both high performance and strong reliability. All of our Inception SSDs come with 3 years advanced replacement warranty alongside free, in-house pre and post sales technical support. We can supply the TLC830 Pro in form factors of 2.5", 3.5" & M.2 with either SATA or NVME interfaces, whilst being available in a range of capacities designed to increase the performance & extend the lifecycle of any laptop or desktop.

Technical Specifications

Power

Operating Voltage:	3.3 V
Power Consumption (read):	2.48 W
Power Consumption (write):	4.26 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:	120000 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:	mSATA
Interface:	Serial ATA
NVMe:	No
Memory Type:	3D TLC
Component For:	PC/Laptop
Hardware Encryption:	No
Data Transfer Rate:	6 Gbit/s
Read Speed:	550 MB/s
Write Speed:	500 MB/s
Random Read (4KB):	53760 IOPS
Random Write (4KB):	58880 IOPS
Access Time:	0.1 ms
Seek Time:	0 ms
S.M.A.R.T. Support:	Yes
ECC:	Yes
Hot-swap:	No
Low-density Parity-check (LDPC):	Yes
Mean Time Between Failures (MTBF):	1000000 h
Windows Operating Systems Supported:	Yes
Linux Operating Systems Supported:	Yes
TBW Rating:	200

Logistics Data

Harmonized System (HS) Code:	84717070
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