



Product Datasheet

Inception TLC830 Pro Series 2TB M.2 (NGFF) 80mm SATA 3D TLC SSD



- **Product Code:** OTLC2TB3DM.2/80
- **Product EAN:** 5056006169680
- **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

Weight & Dimensions

Width:	22 mm
Depth:	80 mm
Height:	1 mm
Weight:	5.6 g

Power

Operating Voltage:	3.3 V
Power Consumption (read):	3.1 W
Power Consumption (write):	4.55 W
Power Consumption (idle):	0.54 W

Operational Conditions

Operating Temperature (T-T):	0 - 75 °C
Storage Temperature (T-T):	-55 - 95 °C
Operating Relative Humidity (H-H):	5 - 95%
Storage Relative Humidity (H-H):	5 - 95%
Operating Vibration:	16 G
Operating Shock:	1500 G
Maximum Operating Altitude:	120000 m
Vibration Resistance:	15 G

Packaging Data

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

Other Features

Warranty Period:	20 year(s)
Compliance Certificates:	RoHS
Compatible Products:	Universal

Features

SSD Capacity:	2 TB
SSD Form Factor:	M.2
Interface:	Serial ATA
NVMe:	No
Memory Type:	QLC 3D NAND
Component For:	PC/Laptop
Hardware Encryption:	No
Data Transfer Rate:	6 Gbit/s
Read Speed:	510 MB/s
Write Speed:	440 MB/s
Random Read (4KB):	69120 IOPS
Random Write (4KB):	66560 IOPS
Sequential Read Speed (ATTO):	540 MB/s
Sequential Write Speed (ATTO):	470 MB/s
Sequential Read Speed (CDM):	530 MB/s
Sequential Write Speed (CDM):	490 MB/s
Access Time:	0.2 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
Backlight:	No
TBW Rating:	800

Logistics Data

Harmonized System (HS) Code:	84717070
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