Product Datasheet

Inception TLC830 Pro Series 1TB PCIe 4.0 NVME M.2 80mm 3D TLC

- **Product Code:** OTLC1TB3DNVME4M.2/80

- **Product EAN:** 5059902030313

- **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:	2 mm
Weight:	6.5 g

Power

Operating Voltage:	3.3 V
Average Power Consumption (read):	3.5 W
Average Power Consumption (write):	3.5 W

Operational Conditions

Operating Temperature (T-T):	0 - 70 °C
Storage Temperature (T-T):	-45 - 95 °C
Operating Relative Humidity (H-H):	5 - 98%
Operating Vibration:	15 G
Operating Shock:	1500 G

Other Features

Compliance Certificates:	RoHS

Features

SSD Capacity:	1 TB
SSD Form Factor:	M.2

Interface:	PCI Express 4.0
NVMe:	Yes
Memory Type:	3D TLC
Component For:	PC/Laptop
Hardware Encryption:	No
NVMe Version:	2.0
Security Algorithms:	128-bit AES, 256-bit AES
M.2 SSD Size:	2280 (22 x 80 mm)
Read Speed:	5100 MB/s
Write Speed:	4400 MB/s
Random Read (4KB):	4000 IOPS
Random Write (4KB):	3200 IOPS
Access Time:	0.2 ms
Seek Time:	0 ms
M.2 Key ID:	M
PCI Express Interface Data Lanes:	x4
S.M.A.R.T. Support:	Yes
TRIM Support:	Yes
ECC:	Yes
JEDEC Standard:	Yes
End-to-End Data Protection:	Yes
Mean Time Between Failures (MTBF):	1500000 h
Windows Operating Systems Supported:	Yes
Mac Operating Systems Supported:	Yes
Linux Operating Systems Supported:	Yes
TBW Rating:	560

Use Conditions:	PC/Client/Tablet, Workstation
SSD Usage Tag:	Consumer

Logistics Data

Export Control Classification Number (ECCN):	4A994