



## Product Datasheet

### Inception TLC830 Series 120GB M.2 (NGFF) 80mm SATA 3D TLC SSD



- **Product Code:** OTLC1203DM.2/80
- **Product EAN:** 5056006153986
- **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

<b>Weight:</b>	7 g
----------------	-----

## Power

<b>Operating Voltage:</b>	3.3 V
<b>Power Consumption (read):</b>	2.44 W
<b>Power Consumption (write):</b>	3.18 W
<b>Power Consumption (idle):</b>	0.52 W

## Operational Conditions

<b>Operating Temperature (T-T):</b>	0 - 70 °C
<b>Storage Temperature (T-T):</b>	-45 - 105 °C
<b>Operating Relative Humidity (H-H):</b>	5 - 98%
<b>Storage Relative Humidity (H-H):</b>	5 - 98%
<b>Operating Vibration:</b>	16 G
<b>Operating Shock:</b>	1500 G
<b>Maximum Operating Altitude:</b>	120000 m

## Packaging Data

<b>Storage Drive Adapter Included:</b>	No
<b>Screws Included:</b>	No
<b>Package Type:</b>	Blister

## Other Features

<b>Compliance Certificates:</b>	RoHS
---------------------------------	------

**Compatible Products:**

Universal

## Features

<b>SSD Capacity:</b>	120 GB
<b>SSD Form Factor:</b>	M.2
<b>Interface:</b>	Serial ATA
<b>NVMe:</b>	No
<b>Memory Type:</b>	3D TLC
<b>Component For:</b>	PC/Laptop
<b>Hardware Encryption:</b>	No
<b>Data Transfer Rate:</b>	6 Gbit/s
<b>Read Speed:</b>	1700 MB/s
<b>Write Speed:</b>	1150 MB/s
<b>Random Read (4KB):</b>	53760 IOPS
<b>Random Write (4KB):</b>	56320 IOPS
<b>Access Time:</b>	0.2 ms
<b>Seek Time:</b>	0 ms
<b>S.M.A.R.T. Support:</b>	Yes
<b>ECC:</b>	Yes
<b>Hot-swap:</b>	No
<b>Low-density Parity-check (LDPC):</b>	Yes
<b>Mean Time Between Failures (MTBF):</b>	1000000 h
<b>Windows Operating Systems Supported:</b>	Yes
<b>Linux Operating Systems Supported:</b>	Yes
<b>TBW Rating:</b>	50

## Logistics Data

Harmonized System (HS) Code:

84717070

## Origin Storage Limited

2-4 Rutherford Centre, Rutherford Road, Basingstoke, Hampshire, RG24 8PB UK

**Tel:** [+44 \(0\)1256 351500](tel:+44(0)1256351500) | **E-Mail:** [sales@originstorage.com](mailto:sales@originstorage.com) | **Web:** [www.originstorage.com](http://www.originstorage.com)

Copyright 2025 - Origin Storage Limited | All trademarks are the property of their respective owners, E&OE.