



# Product Datasheet

## Origin Inception SSD 256GB NVMe M.2 3D TLC 80mm



- **Product Code:** 5SS1D71683-OS
- **Product EAN:** 5059902181480
- **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

<b>Operating Voltage:</b>	3.3 V
<b>Power Consumption (read):</b>	2.89 W
<b>Power Consumption (write):</b>	2.83 W
<b>Power Consumption (idle):</b>	0.48 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>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
<b>Compatible Products:</b>	Universal

## Features

<b>SSD Capacity:</b>	256 GB
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<b>SSD Form Factor:</b>	M.2
<b>Interface:</b>	PCI Express 3.0
<b>NVMe:</b>	Yes
<b>Memory Type:</b>	3D TLC
<b>Component For:</b>	PC/Laptop
<b>Hardware Encryption:</b>	No
<b>NVMe Version:</b>	1.3
<b>M.2 SSD Size:</b>	2280 (22 x 80 mm)
<b>Data Transfer Rate:</b>	8 Gbit/s
<b>Read Speed:</b>	2100 MB/s
<b>Write Speed:</b>	1900 MB/s
<b>Random Read (4KB):</b>	102400 IOPS
<b>Random Write (4KB):</b>	179200 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>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>	100

## Origin Storage Limited

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