



Product Datasheet

SSD 256GB 3D TLC M.2 80mm SATA



- **Product Code:** NB-2563DSSD-M.2
- **Product EAN:** 5056006158356
- **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): | 2.8 W |
| Power Consumption (write): | 4.26 W |
| Power Consumption (max): | 4.26 W |
| Power Consumption (average): | 3.53 W |
| Power Consumption (idle): | 0.52 W |
| Power Consumption DevSlp (device Sleep): | 5 mW |

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: | 36576 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: | 256 GB |
| SSD Form Factor: | M.2 |
| 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): | 69000 IOPS |
| Random Write (4KB): | 67000 IOPS |
| Access Time: | 0.2 ms |
| Seek Time: | 0 ms |
| S.M.A.R.T. Support: | Yes |
| TRIM Support: | Yes |
| Hot-swap: | No |
| Mean Time Between Failures (MTBF): | 1000000 h |
| Windows Operating Systems Supported: | Yes |
| Linux Operating Systems Supported: | Yes |
| TBW Rating: | 100 |

Logistics Data

Harmonized System (HS) Code:

84717070

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