# Origin Storage Inception TLC830 Pro Series 1TB PCIe 3.0 NVMe M.2 80mm 3D TLC

**Brand :** Origin Storage

**Product code:** OTLC1TB3DNVMEM.2/80

**Product name :** Inception TLC830 Pro Series 1TB PCIe 3.0 NVMe M.2 80mm 3D TLC


- Read Intensive, Mobile/Desktop Based, Professional Solutions
- Does not invalidate OEM warranty
- 100% compatible replacement/upgrade for storage solutions
- Pre- & Post-Sale UK Based Tech Support

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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.

| Features | |
|---|---|
| SSD form factor * | M.2 |
| SSD capacity * | 1 TB |
| Interface * | PCI Express 3.0 |
| Memory type * | 3D TLC |
| NVMe * | ✓ |
| Component for * | PC/Laptop |
| Hardware encryption * | ✗ |
| Data transfer rate | 8 Gbit/s |
| Read speed | 2100 MB/s |
| Write speed | 1900 MB/s |
| Random read (4KB) | 102400 IOPS |
| Random write (4KB) | 179200 IOPS |
| Access time | 0.2 ms |
| PCI Express interface data lanes | x4 |
| S.M.A.R.T. support | ✓ |
| ECC | ✓ |
| Hot-swap | ✗ |
| Low-density parity-check (LDPC) | ✓ |
| Mean time between failures (MTBF) | 1000000 h |
| Windows operating systems supported | ✓ |
| Linux operating systems supported | ✓ |

| Features | |
|---|---|
| TBW rating | 400 |
| Compatible products | Universal |
| **Power** | |
| Operating voltage | 3.3 V |
| Power consumption (read) | 2.84 W |
| Power consumption (write) | 3.22 W |
| Power consumption (idle) | 0.47 W |
| **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 | 120000 m |
| **Technical details** | |
| Sustainability certificates | RoHS |
| **Packaging data** | |
| Storage drive adapter included | ✗ |
| Screws included | ✗ |
| Package type | Blister |
| **Logistics data** | |
| Harmonized System (HS) code | 84717070 |

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