



# INCEPTION TLC830 SERIES

80MM M.2 NVME

## Fast And Reliable Solid State Drives

The Inception TLC830 Series is the latest range of NVMe SSDs from Origin Storage, offering vastly improved speeds and reliability compared to HDDs using moving parts. Speeding up all computing processes everyday computing to heavier workloads, this series of affordable and easy-to-install SSDs is the choice for you.

The TLC830 Series, in standard 2.5-inch, 42mm and 80mm M.2 NVMe form factors, is available in various capacities including 120GB, 240GB, 480GB and 960GB. The Inception TLC830 Pro Series is available in sizes of 128GB, 256GB, 512GB, 1TB and 2TB.



## Maximise Performance

The Inception TLC830 Series boosts your computer's performance over 10 times more compared to traditional HDDs\*, providing maximum read and write speeds up to 2100 and 1900 MB/s respectively.



Sequential Read Speeds  
up to **2100 MB/s**

Sequential Write Speeds  
up to **1900 MB/s**

\*Comparing the sequential read speeds of the Inception TLC830 1TB and the 2.5-inch 7200rpm HDD.

## Built to Last

The Inception TLC830 Series 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.

Our Inception TLC830 Solid State Drives give you up to 800 Total Bytes Written (TBW) or a 3-Year Advanced Replacement Warranty, alongside free, in-house pre and post sales technical support to ensure that your SSD experience stands the test of time.

### TLC830/TLC830 Pro

| Capacity | 120GB/128GB | 240GB/256GB | 480GB/512GB | 960GB/1TB | 2TB   |
|----------|-------------|-------------|-------------|-----------|-------|
| TBW      | 50TB        | 100TB       | 200TB       | 400TB     | 800TB |



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# Technical Specifications

|                                   |                         | TLC 830                                                 | TLC 830 Pro                                                          |
|-----------------------------------|-------------------------|---------------------------------------------------------|----------------------------------------------------------------------|
| General Feature                   | Form Factor             | M.2 (2280)                                              |                                                                      |
|                                   | Application             | Client PCs                                              |                                                                      |
|                                   | Capacity                | 120GB, 240GB, 480GB, 960GB                              | 128GB, 256GB, 512GB, 1TB, 2TB                                        |
|                                   | Interface               | PCIe Gen 3.0 x4, NVMe 1.3                               |                                                                      |
|                                   | Dimension (WxHxD)       | 80 x 22 x 2.2mm                                         |                                                                      |
|                                   | Weight                  | Max. 7g                                                 |                                                                      |
|                                   | NAND Flash Type         | 3D Triple Layer Cell (3D TLC)                           |                                                                      |
| Performance                       | Sequential Read/Write   | Max. 2100MB/s / 1900MB/s                                |                                                                      |
|                                   | Random Read/Write (4KB) | Max. 179K IOPS / 102K IOPS                              |                                                                      |
|                                   | Access Time             | 0.2ms                                                   |                                                                      |
|                                   | Seek Time               | 0ms                                                     |                                                                      |
| Special Features                  | TRIM                    | Supported                                               |                                                                      |
|                                   | S.M.A.R.T               |                                                         |                                                                      |
| Power Consumption                 | Read                    | 2.84W (960GB / 1TB)                                     |                                                                      |
|                                   | Write                   | 3.22W (960GB / 1TB)                                     |                                                                      |
|                                   | Idle                    | 0.47W (960GB / 1TB)                                     |                                                                      |
| Environment                       | Allowable Voltage       | 3.3V ± 5%                                               |                                                                      |
|                                   | Reliability (MTBF)      | > 1,000,000 Hours Reliability (MTBF)                    |                                                                      |
|                                   | Operating Temperature   | 0 - 70°C                                                |                                                                      |
|                                   | Storage Temperature     | -45 - 105°C                                             |                                                                      |
|                                   | Operating Humidity      | 5% - 98% RH                                             |                                                                      |
|                                   | Operating Shock         | 1500G                                                   |                                                                      |
|                                   | Operating Vibration     | 16G                                                     |                                                                      |
|                                   | Operating Altitude      | 120,000ft                                               |                                                                      |
| Warranty<br>(Total Bytes Written) |                         | 3-Year Advanced Replacement Warranty                    |                                                                      |
|                                   |                         | 120GB: 50TB / 240GB: 100TB<br>480GB: 200TB 960GB: 400TB | 128GB: 50TB / 256GB: 100TB<br>512GB: 200TB / 1TB: 400TB / 2TB: 800GB |

[www.originstorage.com](http://www.originstorage.com)

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