



INCEPTION TLC830 SERIES

2.5 INCH SATA

Fast And Reliable Solid State Drives

The Inception TLC830 Series is the latest range of SATA 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 SATA and mSATA form factors, is available in various capacities including 120GB, 240GB, 480GB, 960GB and 2TB. The Inception TLC830 Pro Series is available in sizes of 128GB, 256GB and 512GB.



Maximise Performance

The Inception TLC830 Series boosts your computer's performance up to 3.5 times more compared to traditional HDDs*, providing maximum read and write speeds up to 550 and 500 MB/s respectively.



Sequential Read Speeds
up to **550 MB/s**

Sequential Write Speeds
up to **500 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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SECURITY

MEMORY

NETWORKING

ACCESSORIES

Technical Specifications

| | | TLC 830 | TLC 830 Pro |
|-----------------------------------|-------------------------|--|---|
| General Feature | Form Factor | 2.5-inch | |
| | Application | Client PCs | |
| | Capacity | 120GB, 240GB, 480GB, 960GB, 2TB | 128GB, 256GB, 512GB, 1TB |
| | Interface | SATA 6Gb/s Interface, compatible with SATA 3Gb/s & 1.5 interfaces | |
| | Dimension (WxHxD) | 100 x 69.85 x 6.8mm | |
| | Weight | Max. 50g | |
| | NAND Flash Type | 3D Triple Layer Cell (3D TLC) | |
| Performance | Sequential Read/Write | Max. 550MB/s / 500MB/s | |
| | Random Read/Write (4KB) | Max. 69K IOPS / 67K IOPS | |
| | Access Time | 0.1ms | |
| | Seek Time | 0ms | |
| Special Features | TRIM | Supported | |
| | S.M.A.R.T | | |
| Power Consumption | Read | 3.10W (2TB) | 2.80W (1TB) |
| | Write | 4.55W (2TB) | 4.26W (1TB) |
| | Idle | 0.54W (2TB) | 0.52W (1TB) |
| Environment | Allowable Voltage | 5.0V ± 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 (Total Bytes Written) | | 3-Year Advanced Replacement Warranty | |
| | | 120GB: 50TB / 240GB: 100TB / 480GB: 200TB 960GB: 400TB / 2TB: 800TB | 128GB: 50TB / 256GB: 100TB 512GB: 200TB / 1TB: 400TB |

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