



# INCEPTION TLC830 SERIES

42MM M.2 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



STORAGE

SECURITY

MEMORY

NETWORKING

ACCESSORIES

# Technical Specifications

		TLC 830	TLC 830 Pro
General Feature	Form Factor	M.2 (2242)	
	Application	Client PCs	
	Capacity	120GB, 240GB, 480GB, 960GB	128GB, 256GB, 512GB, 1TB
	Interface	SATA 6Gb/s Interface, compatible with SATA 3Gb/s & 1.5 interfaces	
	Dimension (WxHxD)	42 x 22 x 3.1mm	
	Weight	Max. 7g	
	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	0.2ms	
	Seek Time	0ms	
Special Features	TRIM	Supported	
	S.M.A.R.T		
Power Consumption	Read	2.80W (960GB / 1TB)	
	Write	4.26W (960GB / 1TB)	
	Idle	0.52W (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 (Total Bytes Written)	3-Year Advanced Replacement Warranty		
	120GB: 50TB / 240GB: 100TB 480GB: 200TB 960GB: 400TB	128GB: 50TB / 256GB: 100TB 512GB: 200TB / 1TB: 400TB	

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

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