



# Inception MSATA Series

**FAST AND RELIABLE SOLID STATE DRIVES**



Introducing the latest addition to the Origin Storage MLC800 portfolio, the Inception M.2 Series of Internal SSD upgrades.

The MSATA solution is manufactured using the latest in SSD technology; on its lightweight PCB frame it combines a 15nm MLC NAND alongside a Phison S9/10 Controller to offer incredible performance that truly leaves traditional HDD's in the dark ages.

With a 10x performance increase in data transfer and a huge reduction in boot time, upgrading to an Inception MLC800 SSD will grant new life to any system.

## KEY FEATURES:

- > Static and Dynamic Wear Levelling
- > TRIM
- > Over-provisioning
- > Bad Block Management

### Part Numbers:

OMSATA128SATA/2.5	Inception MSATA Series 64GB
OMSATA128SATA/2.5	Inception MSATA Series 128GB
OMSATA256SATA/2.5	Inception MSATA Series 256GB
OMSATA512SATA/2.5	Inception MSATA Series 480GB

## SPECIFICATIONS:

- > Interface SATAIII (supports II & I)
- > Form factor mSATA (Mini-SATA)
- > Capacities 64GB, 128GB, 256GB, 512GB
- > Controller Phison S9/S10
- > NAND MLC

### Data Transfer Sequential MB/s (CrystalDiskMark)

64GB	up to 418MB/s Read and 169MB/s Write
128GB	up to 423MB/s Read and 178MB/s Write
256GB	up to 545MB/s Read and 403MB/s Write
512GB	up to 545MB/s Read and 523MB/s Write

### Maximum Random 4k Read/Write (IOMETER)

64GB	up to 23736 IOPS and 12015 IOPS
128GB	up to 19812 IOPS and 10358 IOPS
256GB	up to 82826 IOPS and 90457 IOPS
512GB	up to 80368 IOPS and 90584 IOPS

### Power Consumption

0.06W Idle (MAX) / 0.32W (MAX) Read / 0.62W (MAX) Write

- > Storage temperature 45°C~85°C
- > Operating temperature 0°C~70°C
- > Dimensions 70mm x 100mm x 7mm
- > Weight 300g
- > Life expectancy 1.5 million hours MTBF
- > Warranty/support 3 years

### Total Bytes Written

64GB
128GB
256GB
512GB



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