

Datasheet

# mSATA

## 3TEA series

- mSATA DRAM-less solution
- Strong R/W Performance
- iSMART disk health monitoring
- Flexible NAND flash supply
- 100% good die
- warranty 2 year

### Introduction

Innodisk mSATA 3TEA is SATA III 6.0 Gb/s disk with 3D NAND Flash, incorporate advanced controllers with powerful LDPC technology that extended lifespan through reducing the bad block number happening.

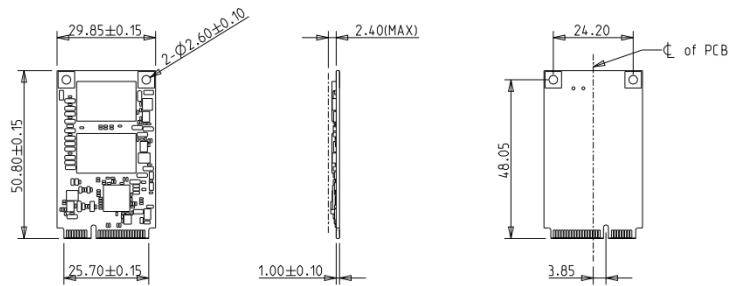
In 3TEA series, Innodisk keep with outstanding high IOPS and NAND Flash management features like wear-levelling, garbage collection, ATA Security, etc. More important, we keep our attentive service & controlled product supply promise to value customer need in the market.

# mSATA 3TEA series

## Diagram

Contact us for more information about the mSATA 3TEA

Innodisk is a service-driven provider of industrial embedded flash and DRAM storage products and technologies, with a focus on the industrial/embedded, aerospace and defense, and cloud computing industries.



TOLERANCE: ±0.15mm  
UNIT: mm

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## Specifications

Interface	SATA III
Flash Type	3D TLC
Capacity	128GB~512GB
Max. Channels	2
Sequential R/W (MB/sec, max.)*	550 / 470
4KB Random (QD32) R/W (IOPS)*	68,000 / 75,000
Max. Power Consumption	2.3 W
Thermal Sensor	√
External DRAM Buffer	-
ATA Security	√
S.M.A.R.T.	√
Dimension (WxLxH)	29.85 X 50.8 X 3.7 mm
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -40°C ~ +85°C MTBF: 3 million hours
* Sequential performance based on CystalDiskMark 5.1.2 with file size 1000MB	

## Ordering Information (Please refer to TPS for detail)

Operation Temp.	128GB	256GB	512GB
Standard Grade (0°C ~ +70°C)	DEMSR-A28DZ1KCADL	DEMSR-B56DZ1KCADL	DEMSR-C12DZ1KCCDL