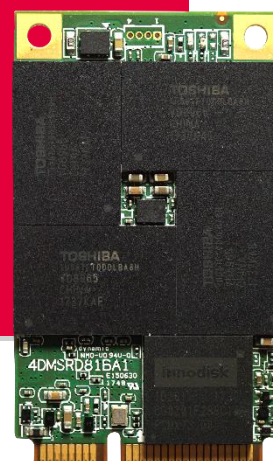# mSATA
3SE2-P series

- SATA 6.0 Gb/s interface
- JEDEC MO-300 standard dimension
- High IOPS by on-board DRAM design
- Intelligent error recovery system
- iSMART disk health monitoring
- iData Guard for abnormal power failure
- Zero mechanical interference
- DEVSLP supported

Introduction

Innodisk mSATA 3SE2-P is SATA III 6Gb/s flash based disk, which delivers excellent performance, especially in random data transfer rate, and which offers reliability making it the ideal solution for a variety of applications, including embedded system, industrial computing, and enterprise field. 3SE2-P mSATA not only performs unmatched performance, but also designed with Innodisk owned technical knowhow such as iData Guard to ensure the data integrity and highest levels of reliability. Featuring L^2 architecture, the life span of the SSD is maximized by an evolved wear leveling algorithm.
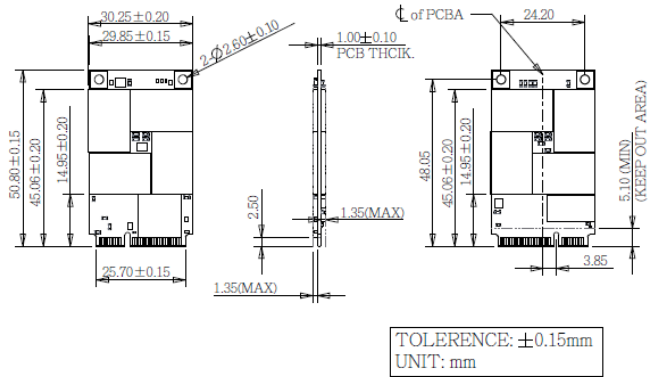
mSATA
3SE2-P series

Diagram

TOLERENCE: ±0.15mm
UNIT: mm

Specifications

Interface	SATA III
Flash Type	SLC
Capacity	256GB
Max. Channels	4
Sequential R/W (MB/sec, max.)*	540 / 440 MB/s
4KB Random (QD32) R/W (IOPS)**	66,000/56,000
Max. Power Consumption	2.5 W (3.3 V x 0.77 A)
Thermal Sensor	√
External DRAM Buffer	√
H/W Write Protect	Optional
ATA Security	√
S.M.A.R.T.	√
DEVSLP Mode	√ (min. power consumption 3mW)
Slumber Mode	√ (min. power consumption 30mW)
Dimension (WxLxH)	29.85 X 50.8 X 3.6 mm
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours

* Sequential performance based on CrystalDiskMark 6.0.2 with file size 1000MB

* * Random performance based on IOmeter with Queue Depth 32

Ordering Information (Please refer to TPS for detail)

Operation Temp.	256GB
Standard Grade (0°C ~ +70°C)	DGMSR-B56D81SCAQB
Industrial Grade (-40°C ~ +85°C)	DGMSR-B56D81SWAQB

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