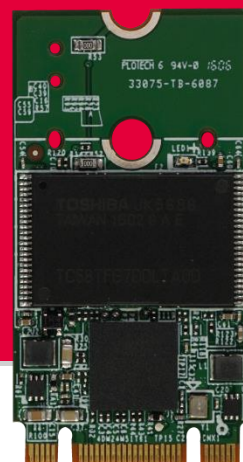


Datasheet

# M.2 (S42) 3IE4 series

- SATA III solution for industrial field
- Exclusive L<sup>3</sup> architecture
- Designed with hardware LDPC ECC engine
- Supported iData Guard protection
- DRAM-less, 100% data integrity
- Excellent random performance
- Supported TRIM/NCQ/SMART



## Introduction

Innodisk M.2 (S42) 3IE4 is characterized by **L<sup>3</sup> architecture with the latest SATA III** (6.0GHz) Marvell NAND controller. Innodisk's exclusive L<sup>3</sup> architecture is L<sup>2</sup> architecture multiplied LDPC (Low Density Parity Check). L<sup>2</sup> (Long Life) architecture is a 4K mapping algorithm that reduces WAF and features a real-time wear leveling algorithm to provide high performance and prolong lifespan with exceptional reliability.

Innodisk M.2 (S42) 3IE4 is designed for industrial field, and supports several standard features, including TRIM, NCQ, and S.M.A.R.T. In addition, Innodisk's exclusive industrial-oriented firmware provides a flexible customization service, making it perfect for a variety of industrial applications.

# M.2 (S42)

## 3IE4 series

### Specifications

Interface	SATA III
Flash Type	iSLC
P/E cycle	20,000
Capacity	4GB~128GB
Max. Channels	2
Sequential R/W (MB/sec, max.)	530/380
Max. Power Consumption	0.8 W (3.3V x 262 mA )
Thermal Sensor	√
External DRAM buffer	-
H/W Write Protect	Optional
ATA Security	√
S.M.A.R.T.	√
Dimension (WxLxH)	22.0 X 42.0 X 3.2 mm
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours

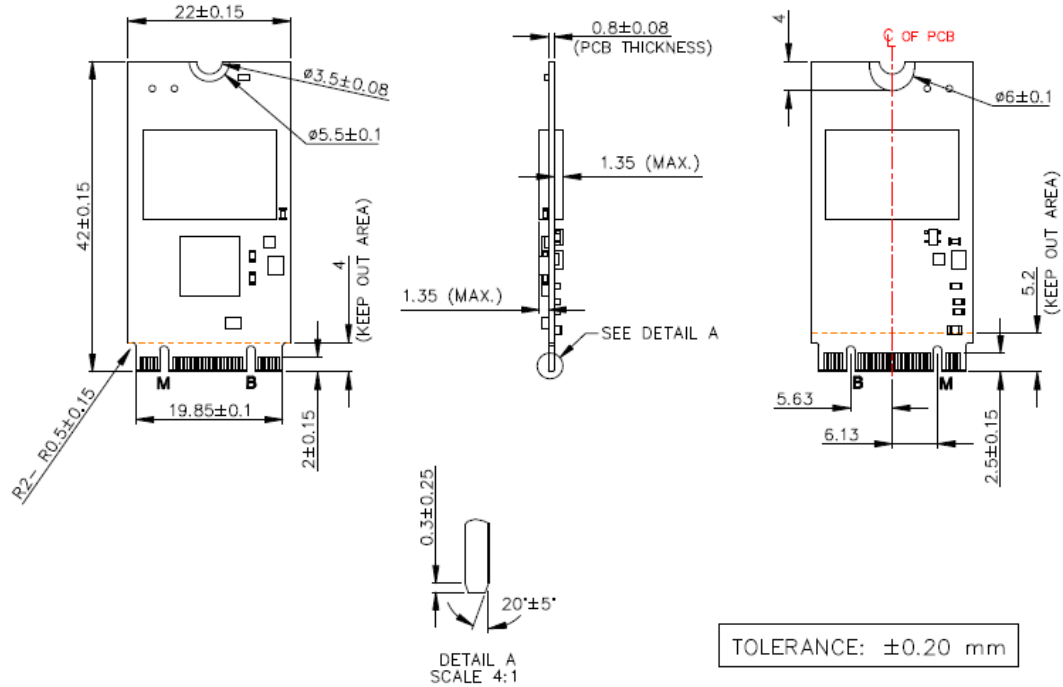
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### Ordering Information

Operation Temp.	4GB	8GB	16GB	32GB	64GB	128GB
Standard Grade (0°C ~ +70°C)	DHM24-04GM41BC1SC	DHM24-08GM41BC1SC DHM24-08GM41BC1DC	DHM24-16GM41BC1DC	DHM24-32GM41BC1DC	DHM24-64GM41BC1DC	DHM24-A28M41BCADC
Industrial Grade (-40°C ~ +85°C)	DHM24-04GM41BW1SC	DHM24-08GM41BW1SC DHM24-08GM41BW1DC	DHM24-16GM41BW1DC	DHM24-32GM41BW1DC	DHM24-64GM41BW1DC	DHM24-A28M41BWADC

## Diagram

### BGA version



### TSOP version

