

Datasheet

# M.2 (S42)

## 3IE3 series

- SATA 6Gb/s interface
- iSMART disk health monitoring
- Intelligent error recovery system
- Excellent data transfer speed
- Zero mechanical interference
- Anti-vibration mechanical design



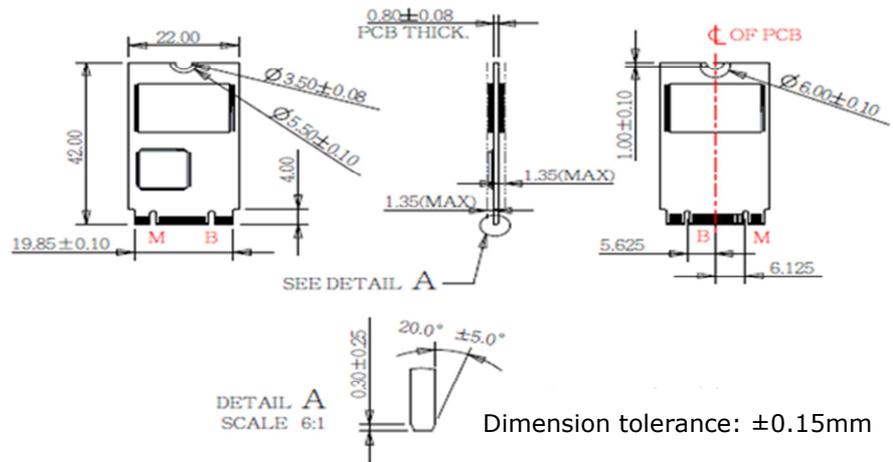
### Introduction

Innodisk M.2 (S42) 3IE3 is designed as the standard M.2 form factor with SATA interface, and supports SATA III standard (6.0Gb/s) with excellent performance. The form factor refers to the M.2(NGFF) specification which established by JEDEC. Regarding of mechanical interference, Innodisk M.2 (S42) 3IE3 absolutely replaces the traditional hard disk and makes personal computer, in any field, smaller and easier.

Innodisk M.2 (S42) 3IE3 effectively reduces the booting time of operation system and the power consumption is less than hard disk drive (HDD), and complies with ATA protocol, no additional drives are required, and can be configured as a boot device or data storage device.

# M.2 (S42) 3IE3 series

## Diagram



Contact us for more information about the M2 (S42) 3IE3.

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

### Headquarters (Taiwan)

5F., No. 237, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan  
Tel: +886-2-7703-3000  
Email: sales@innodisk.com

### Branch Offices:

USA  
[usasales@innodisk.com](mailto:usasales@innodisk.com)  
+1-510-770-9421

Europe  
[eusales@innodisk.com](mailto:eusales@innodisk.com)  
+31-040-282-1818

Japan  
[jpsales@innodisk.com](mailto:jpsales@innodisk.com)  
+81-3-6667-0161

China  
[sales\\_cn@innodisk.com](mailto:sales_cn@innodisk.com)  
+86-755-21673689

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

© 2017 Innodisk Corporation.  
All right reserved. Specifications are subject to change without prior notice.

20171124

## Specifications

Interface	SATA III
Flash Type	iSLC
P/E cycle	20,000
Capacity	8GB~64GB
Max. Channels	2
Sequential R/W (MB/sec, max.)	230/160
Max. Power Consumption	1.3W (3.3V x 370 mA)
Thermal Sensor	ST:N/WT:Y
External DRAM buffer	-
H/W Write Protect	-
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

## Ordering Information

Operation Temp.	8GB	16GB	32GB	64GB
Standard Grade (0°C ~ +70°C)	DHM24-08GD09BC1SC	DHM24-16GD09BC1DC	DHM24-32GD09BC1DC	DHM24-64GD09BC1DC
Industrial Grade (-40°C ~ +85°C)	DHM24-08GD09BW1SC	DHM24-16GD09BW1DC	DHM24-32GD09BW1DC	DHM24-64GD09BW1DC