

Datasheet

# M.2 (S42) 3IE2-P series

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



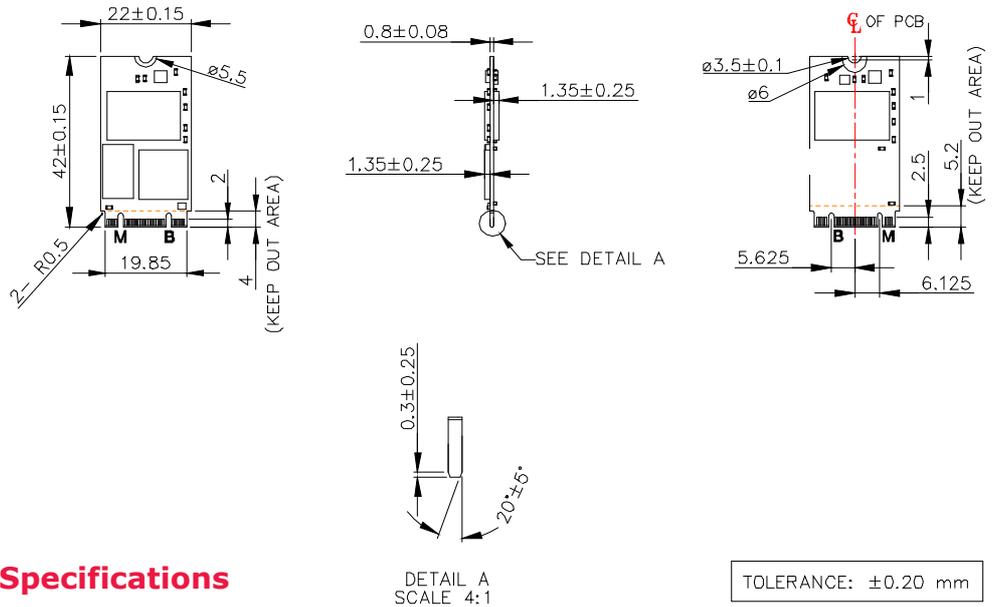
## Introduction

Innodisk M.2 (S42) 3IE2-P 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) 3IE2-P absolutely replaces the traditional hard disk and makes personal computer, in any field, smaller and easier.

Innodisk M.2 (S42) 3IE2-P 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.

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## Diagram



## Specifications

Interface	SATA III
Flash Type	iSLC
P/E cycle	20,000
Capacity	16GB~128GB
Max. Channels	4
Sequential R/W (MB/sec, max.)	560/450
Max. Power Consumption	1.09 W (3.3V x 330 mA )
Thermal Sensor	√
External DRAM buffer	√
H/W Write Protect	-
ATA Security	√
S.M.A.R.T.	√
Dimension (WxLxH)	22.0 X 42.0 X 3.5 mm
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours

## Ordering Information

Operation Temp.	16GB	32GB	64GB	128GB
Standard Grade (0°C ~ +70°C)	DHM24-16GD81BCADC	DHM24-32GD81BCAQC	DHM24-64GD81BCAQC	DHM24-A28D81BCAQC
Extended Grade (-40°C ~ +85°C)	DHM24-16GD81BWADC	DHM24-32GD81BWAQC	DHM24-64GD81BWAQC	DHM24-A28D81BWAQC

Contact us for more information about the M2 (S42) 3IE2-P.

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.

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