

Datasheet

# M.2 (S42) 3IE7 series

- SATA III solution for industrial field
- Exclusive L<sup>3</sup> architecture
- DRAM-less, 100% data integrity
- Excellent random performance
- Supports TRIM/NCQ/SMART
- Built in iData Guard
- Compatible with M.2 2242-D2-B-M standard
- Designed with hardware LDPC ECC engine



## Introduction

Innodisk M.2 (S42) 3IE7 is SATA III 6.0 Gb/s flash based disk, which adopts latest SATA III NAND controller with Innodisk's exclusive L<sup>3</sup> FW architecture. The upgraded L<sup>3</sup> FW architecture, combining Innodisk signature 4K mapping algorithm L<sup>2</sup> FW architecture with powerful LDPC technology, makes 3IE7 series have outstanding high IOPS, better data integrity and extended lifespan through reducing the bad block number happening. Built-in thermal sensor, and iData Guard ensure data integrity and reliability of 3IE7 for industrial applications.

Innodisk M.2 (S42) 3IE7 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.

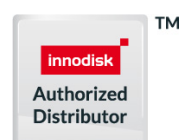
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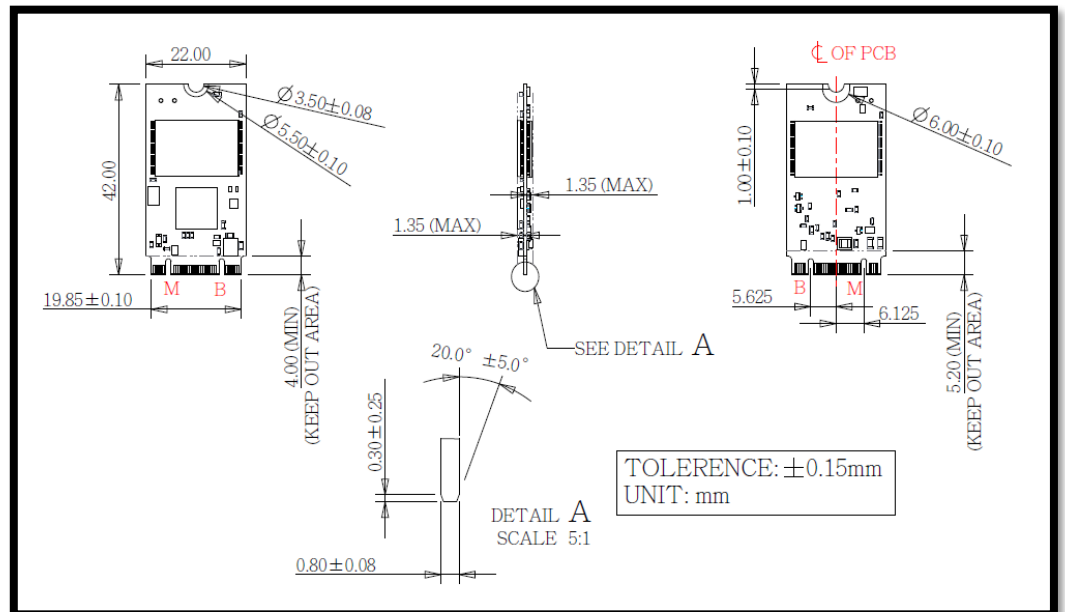
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## Diagram



## Specifications

Interface	SATA III
Flash Type	iSLC (3D TLC)
P/E cycle	30,000
Capacity	40GB~320GB
Max. Channels	4
Sequential R/W (MB/sec, max.)	550/520
Max. Power Consumption	1.2W(380mA $\times$ 3.3V)
Thermal Sensor	✓
External DRAM buffer	-
H/W Write Protect	Optional
ATA Security	✓
S.M.A.R.T.	✓
Dimension (W $\times$ L $\times$ H)	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

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## Ordering Information

Operation Temp.	40GB	80GB	160GB	320GB
Standard Grade (0°C ~ +70°C)	DHM24-40GDK1GCADL	DHM24-80GDK1GCAQL	DHM24-A60DK1GCAQL	DHM24-D2GDK1GCAQL
Industrial Grade (-40°C ~ +85°C)	DHM24-40GDK1GWADL	DHM24-80GDK1GWAQL	DHM24-A60DK1GWAQL	DHM24-D2GDK1GWAQL

D=Dual channel; Q=4 channel

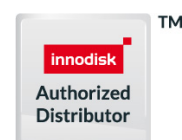


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