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Datasheet

# 2.5" SATA SSD

## 3IE7 series

- 2.5" SATA SATA III solution for industrial field
- High IOPS
- iSMART disk health monitoring
- iPower Guard for protecting unstable start up and shut down.
- iData Guard for abnormal power failure



### Introduction

Innodisk 2.5" SATA SSD 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 2.5" SATA SSD 3IE7 for industrial applications.

# 2.5" SATA SSD

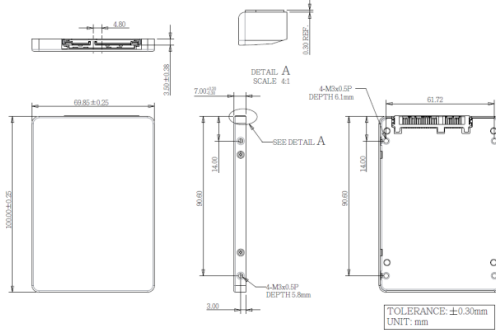
## 3IE7 series

### Diagram

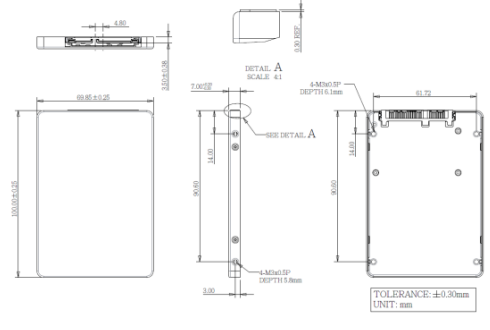
Contact us for more information about the 2.5" SATA SSD 3IE7.

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

\* DHS25-XXXDK1GXXXL(320GB~64GB)



\* DHS25-XXXDK1GXXXL(40GB~160GB)



### Specifications

Interface	SATA III
Flash Type	iSLC (3D TLC)
Capacity	40GB~640GB
Max. Channels	4
Sequential R/W (MB/sec, max.)*	550 / 520 MB/s
4KB Random (QD32) R/W (IOPS)**	73,000/59,000
Max. Power Consumption	3.3 W
Thermal Sensor	√
External DRAM Buffer	-
H/W Write Protect	-
ATA Security	√
S.M.A.R.T.	√
Dimension (WxLxH)	69.8 X 100.0 X 6.8 mm
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -40°C ~ +85°C MTBF: 3 million hours
* Sequential performance based on CystalDiskMark 6.0.2 with file size 1000MB of Queue Depth 32	

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### Ordering Information (Please refer to TPS for detail)

Operation Temp.	40GB	80GB	160GB	320GB	640GB
Standard Grade (0°C ~ +70°C)	DHS25-40GDK1%CCDL	DHS25-80GDK1%CC&L	DHS25-A60DK1%CCQL	DHS25-D2GDK1%CCQL	DHS25-F4GDK1%CCQL
Industrial Grade (-40°C ~ +85°C)	DHS25-40GDK1%WCDL	DHS25-80GDK1%WC&L	DHS25-A60DK1%WCQL	DHS25-D2GDK1%WCQL	DHS25-F4GDK1%WCQL

%. G=96 layers 3D TLC; K=112 layers 3D TLC

&. D=2 channels; Q=4 channels