

Datasheet

2.5" SATA SSD

3TE7 series

- 2.5" SATA Slim SATA III solution for industrial field
- High IOPS
- iSMART disk health monitoring
- AES-256 encryption
- iPower Guard for protecting unstable start up and shut down.
- iData Guard for abnormal power failure

Introduction

Innodisk 2.5" SATA SSD 3TE7 is SATA III 6.0 Gb/s flash based disk, which adopts latest SATA III NAND controller with Innodisk's exclusive L³ FW architecture. The upgraded L³ FW architecture, combining Innodisk signature 4K mapping algorithm L² FW architecture with powerful LDPC technology, makes 3TE7 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 3TE7 for industrial applications.

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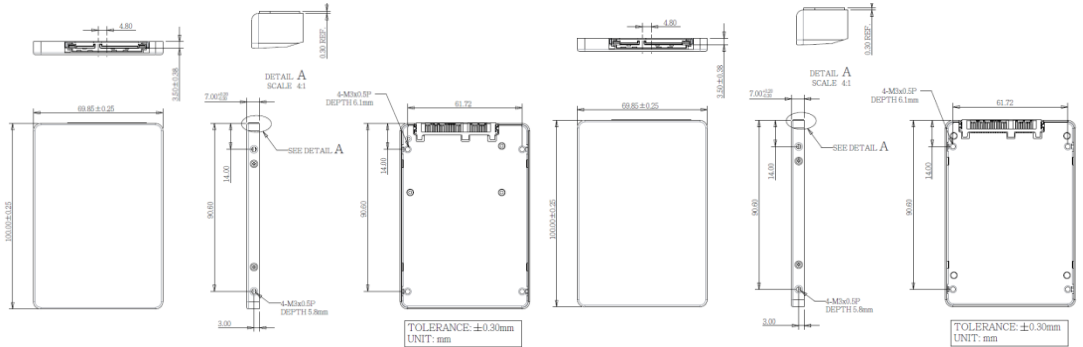
Diagram

Contact us for more information about the 2.5" SATA SSD 3TE7

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.

* DES25-XXXDK1EXXXL(32GB~256GB)

* DES25-XXXDK1EXXXL(512GB)



Specifications

Interface	SATA III
Flash Type	3D TLC
Capacity	32GB~2TB
Max. Channels	4
Sequential R/W (MB/sec, max.)*	550 / 510 MB/s
4KB Random (QD32) R/W (IOPS)*	82,000/72,000
Max. Power Consumption	3.6 W
Thermal Sensor	✓
External DRAM Buffer	-
H/W Write Protect	Optional
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: -55°C ~ +95°C MTBF: 3 million hours
* Sequential performance based on CystalDiskMark 5.1.2 with file size 100MB	

Headquarters (Taiwan)

5F., No.237, Sec. 1, Datong Rd.,
Xizhi Dist., New Taipei City,
Taiwan (R.O.C.)
Tel: +886-2-77033000
Email: sales@innodisk.com

Branch Offices:

USA
usasales@innodisk.com
+1-510-770-9421
Europe
eusales@innodisk.com
+31-40-3045-400
Japan
jpsales@innodisk.com
+81-3-6667-0161
China
sales_cn@innodisk.com
+86-755-21673689
www.innodisk.com

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Ordering Information (Please refer to TPS for detail)

Operation Temp.	32GB	64GB	128GB	256GB	512GB	1TB	2TB
Standard Grade (0°C ~ +70°C)	DES25-32GDK1C3SL	DES25-64GDK1*C3DL	DES25-A28DK1*C3QL	DES25-B56DK1*C3QL	DES25-C12DK1*C3QL	DES25-01TDK1*C1QL	DES25-02TDK1*CAQL
Industrial Grade (-40°C ~ +85°C)	DES25-32GDK1EW3SL	DES25-64GDK1*W3DL	DES25-A28DK1*W3QL	DES25-B56DK1*W3QL	DES25-C12DK1*W3QL	DES25-01TDK1*W1QL	DES25-02TDK1*WAQL

*. E: 64 layers 3D TLC; G: 96 layers 3D TLC