

Datasheet

2.5" SATA SSD

3TE7 series

- 2.5" SATA Slim 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 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.

2.5" SATA SSD 3TE7 series

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.

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Headquarters (Taiwan)

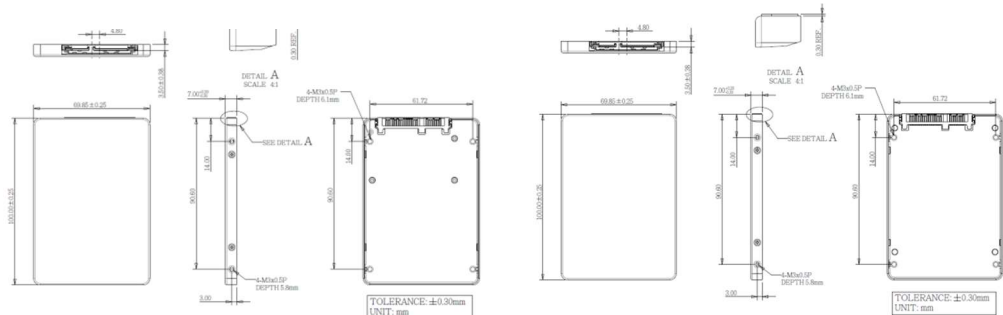
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* Slim inside

* Full PCB



Specifications

Interface	SATA III
Flash Type	3D TLC
Capacity	32GB~2TB
Max. Channels	4
Sequential R/W (MB/sec, max.)*	550 / 520 MB/s
4KB Random (QD32) R/W (IOPS)*	84,000/72,000
Max. Power Consumption	3.9 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: -40°C ~ +85°C MTBF: 3 million hours
* Sequential performance based on CystalDiskMark 5.1.2 with file size 1000MB	

Ordering Information (Please refer to TPS for detail)

Operation Temp.	64GB	128GB	256GB	512GB	1TB	2TB
Standard Grade (0°C ~ +70°C)	DES25-64GDK1%C*SL	DES25-A28DK1%C*DL	DES25-B56DK1%C*&L	DES25-C12DK1%C*QL	DES25-01TDK1%C*QL	DES25-02TDK1%C*QL
Industrial Grade (-40°C ~ +85°C)	DES25-64GDK1GW3SL	DES25-A28DK1GW3DL	DES25-B56DK1GW3QL	DES25-C12DK1GW3QL	DES25-01TDK1GW1QL	DES25-02TDK1GWAQL

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

*. PCB version control

&. D: Dual channels; Q: Quad channels