



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.

2.5" SATA SSD

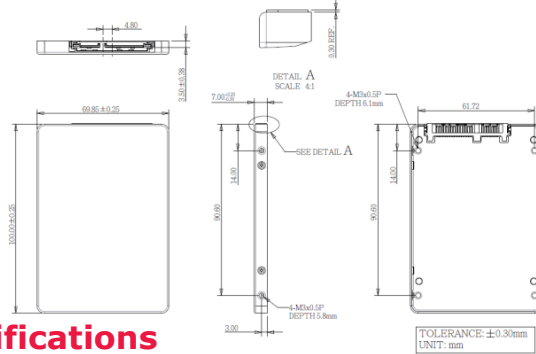
3TE7 series

Diagram

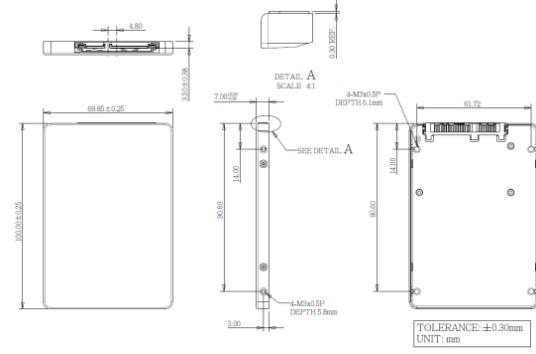
Contact us for more information about the 2.5" SATA SSD 3TE7.

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.

* DES25-XXXDK1EXXXF(1TB)



* DES25-XXXDK1EXXXF(32GB~512GB)



Specifications

Interface	SATA III
Flash Type	3D TLC
Capacity	32GB~1TB
Max. Channels	4
Sequential R/W (MB/sec, max.)*	560 / 330 MB/s
4KB Random (QD32) R/W (IOPS)**	85,000/70,000
Max. Power Consumption	TBD
Thermal Sensor	√
External DRAM Buffer	-
H/W Write Protect	Optional
AES encryption	√
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
* Performance based on CrystalDiskMark 3.01 with file size 1000MB	

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Ordering Information (Please refer to TPS for detail)

Operation Temp.	32GB	64GB	128GB	256GB	512GB	1TB
Standard Grade (0°C ~ +70°C)	DES25-32GDK1EC3SF	DES25-64GDK1EC3DF	DES25-A28DK1EC3QF	DES25-B56DK1EC3QF	DES25-C12DK1EC3QF	DES25-01TDK1EC1QF
Industrial Grade (-40°C ~ +85°C)	DES25-32GDK1EW3SF	DES25-64GDK1EW3DF	DES25-A28DK1EW3QF	DES25-B56DK1EW3QF	DES25-C12DK1EW3QF	DES25-01TDK1EW1QF