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 L^3 FW architecture. The upgraded L^3 FW architecture, combining Innodik signature 4K mapping algorithm L^2 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.

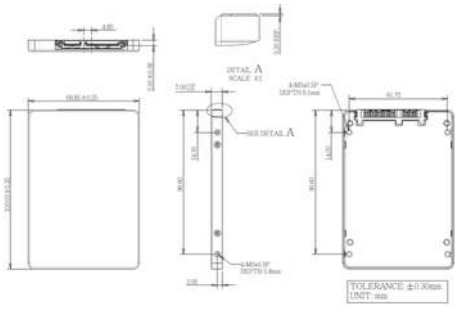
2.5” SATA SSD 3TE7 series

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

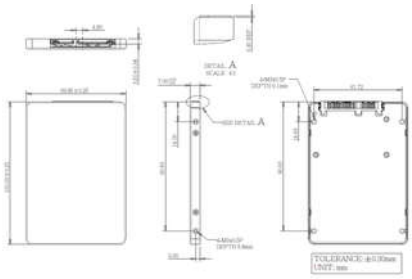
Innodisk is a service-driven provider of industrial embedded flash and DRAM storage products and technologies, with a focus on the industrial/embedded, aerospace and defense, and cloud computing industries.

Diagram

* DES25-XXXDK1XX%XF (%=1 or A)



* DES25-XXXDK1XX%XF (%=3 or C)



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)**	82,000/74,000
Max. Power Consumption	3.3W
Thermal Sensor	√
External DRAM Buffer	-
H/W Write Protect	-
ATA Security	√
S.M.A.R.T.	√
Dimension (WxLxH)	69.8 X 100.0 X 7.0 mm
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -40°C ~ +85°C MTBF: 3 million hours
* Performance based on CystalDiskMark 6.0.2 with file size 1000MB	

Ordering Information (Please refer to TPS for detail)

Operation Temp.	32GB	64GB	128GB	256GB	512GB	1TB	2TB
Standard Grade (0°C ~ +70°C)	DES25-32GDK1EC3SF	DES25-64GDK1EC3DF	DES25-A28DK1%C3QF DES25-A28DK1%C*DF	DES25-B56DK1%C*QF	DES25-C12DK1%C*QF	DES25-01TDK1%C*QF	DES25-02TDK1%C*QF
Industrial Grade (-40°C ~ +85°C)	DES25-32GDK1EW3SF	DES25-64GDK1EW3DF	DES25-A28DK1%W3QF DES25-A28DK1%W3DF	DES25-B56DK1%W*QF	DES25-C12DK1%W*QF	DES25-01TDK1%W*QF	DES25-02TDK1%W*QF

%. E: 64 layers 3D TLC; G: 96 layers 3D TLC; K: 112 layers 3D TLC
*. PCB version control

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

© 2021 Innodisk Corporation. All right reserved. Specifications are subject to change without prior notice.

20210730