Datasheet

# SATADOM-SL 3TE7 series

- SATA III soultion for industrial field
- Exclusive L<sup>3</sup> architecture
- DRAM-less, 100% data integrity
- Excellent random performance
- Designed with hardware LDPC ECC engine
- Built-in Pin 8 power supply



### Introduction

Innodisk SATADOM-SL 3TE7 is characterized by  $L^3$  architecture with the latest SATA III (6.0GHz) Marvell NAND controller. Innodisk's exclusive  $L^3$  architecture is  $L^2$  architecture multiplied LDPC (Low Density Parity Check).  $L^2$  (Long Life) architecture is a 4K mapping algorithm that reduces WAF and features a real-time wear leveling algorithm to provide high performance and prolong lifespan with exceptional reliability.

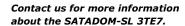
Innodisk SATADOM-SL 3TE7 is designed for industrial field, and supports several standard features, including TRIM, NCQ, and S.M.A.R.T. In addition, Innodisk's exclusive industrial-oriented firmware provides a flexible customization service, making it perfect for a variety of industrial applications.

The innovative Pin 8 uses the SATA connector itself as a power supply to drive the device without external cables. It could be connected directly to the SATA on-board socket on customer's system without additional power cable. Besides, the booting time for operation and the power consumption is less than hard disk drive (HDD), and can work under harsh environment compile with ATA protocol, no additional drives are required, and the SSD can be configured as a boot device or data storage device.



# **SATADOM-SL** 3TE7 series

### **Diagram**



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

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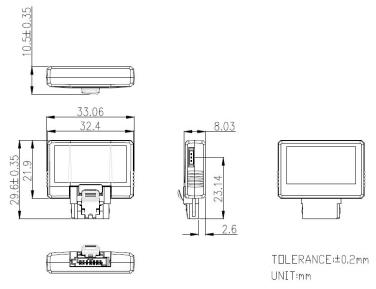
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Specifications

Specifications			
Interface	SATA III		
Flash Type	3D TLC		
Capacity	32GB~256GB		
Max. Channels	2		
Sequential R/W (MB/sec, max.)	510/300		
Max. Power Consumption	1.53W (5V x 305mA )		
Thermal Sensor	$\checkmark$		
Extended DRAM buffer	-		
H/W Write Protect	-		
ATA Security	√		
S.M.A.R.T.	√		
Dimension (WxLxH)	33.06 x 29.6 x 10.5 mm		
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours		

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## **Ordering Information**

2200	64CP	128GB		256GB		
	32GB	64GB	1CH	2CH	230GB	
Standard Grade (0°C ~ +70°C)	DESSL- 32GDK1EC1SF*	DESSL- 64GDK1EC1SF*	DESSL- A28DK1EC1SF*	DESSL- A28DK1ECADF*	DESSL- B56DK1ECADF*	
Industrial Grade (-40°C ~ +85°C)	DESSL- 32GDK1EW1SF*	DESSL- 64GDK1EW1SF *	DESSL- A28DK1EW1SF *	DESSL- A28DK1EWADF*	DESSL- B56DK1EWADF*	

\*=A-> Pin 8+ power cable / \*=B-> Pin 8+ Pin 7

