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SSED

Slim SATA Embedded Disk

Industrial Grade NAND Flash

Product Specification

V1.0



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1. Description

The Slim SATA format is the perfect SSD replacement for the standard mechanical 2.5 inch SATA hard drives. Maintaining the same interface, it is the ideal replacement requiring no changes from the original design. This new form factor allows design engineers to implement and bring new products to market in a much shorter time frame. When motherboard real estate is at a premium and solid state durability is needed, Slim SATA is the perfect solution to any embedded application.



1.1 Features

- Standard SATA Connector
- Supports SLC NAND Memory
- RoHS compliance
- Industrial Temperature rated at $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Advanced Wear Leveling algorithms for better ECC management



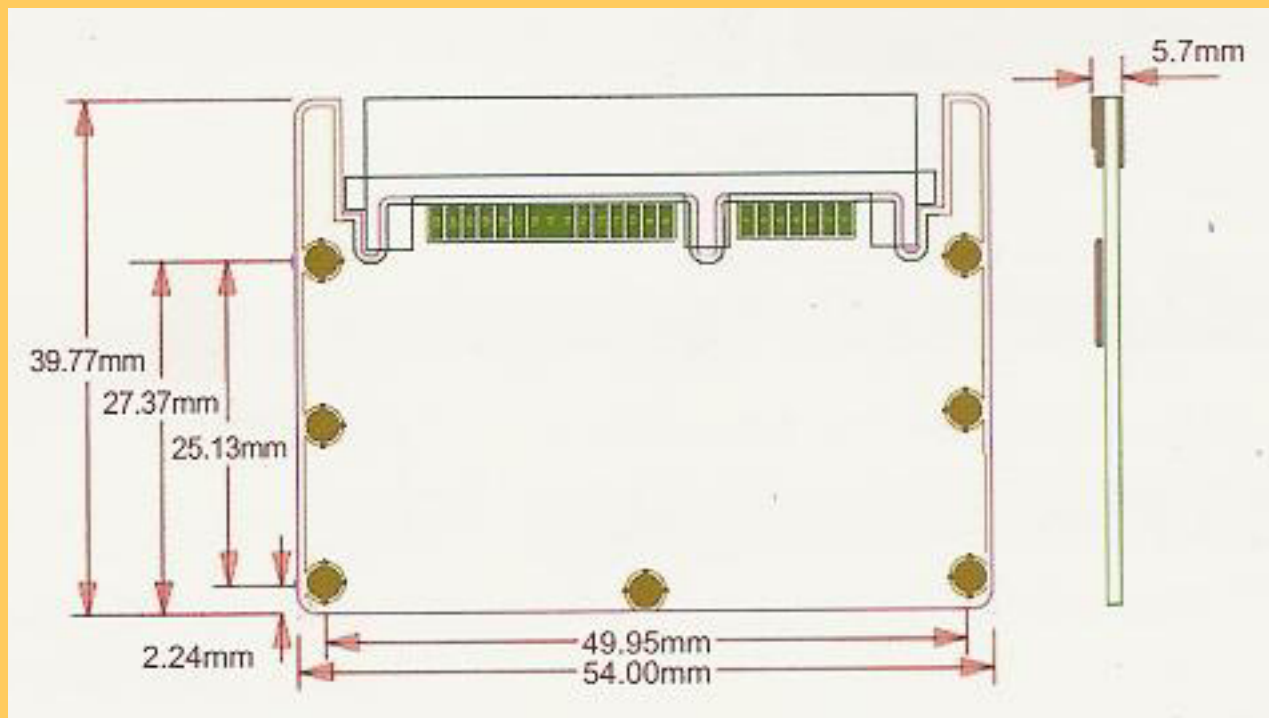
1.2 System Specifications

General Specification	
Flash Technology	NAND Type Flash Memory Based
Compatibility	Serial ATA II
Form Type	54.00 x 39.77 x 5.7
Flash Capacity	up to 256GB
Media Transfer Rate	Sequential Read SLC: 100MB/sec max Sequential Write SLC: 50MB/sec max
Support	Error Correcting Code (ECC) / Wear-Leveling and advanced bad sector management algorithms
Environment Specification	
Standard Operating Temperature	0°C ~ +70°C
Wide Operating Temperature	-40°C ~ +85°C
Supported OS	Windows XP / Windows 2000 Windows Vista / Windows 7
System Reliability	
MTBF	more than 2 Million HRS
Endurance	more than 2 Million CYCLES
Power Voltage	+5V ± 10%
Power Consumption	400 mA(MAX)



2. Physical Specifications

Parameter	Description
Weight	10.0g
Length	54.00 mm
Width	39.77 mm
Thickness	5.7 mm



3. Ordering Information

Capacity	Part Number
512MB	PCDSSED512MBI
1GB	PCDSSED1024MBI
2GB	PCDSSED2048MBI
4GB	PCDSSED4096MBI
8GB	PCDSSED8192MBI
16GB	PCDSSED0016GBI

