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# 2.5" SATA Solid State Drive

# **General Description**

The SATA Flash Drive SS8/16/32/64/28A5/6C25M series is a Serial ATA interface solid state drive (SSD) that features a Flash disk controller chip and NAND type Flash memory devices. This 2.5 inch form factor SSD series is available in 8GB, 16GB, 32GB, 64GB and 128GB capacities. The drive uses a 5-volt power supply and supports SATA data transfer. This SATA SSD Drive is geared specifically to military and industrial markets for use in such products as avionics, video on demand, ATM, factory automation machines, POS terminals, measuring products, ticket vending machines, parking systems and other industrial products that require high tolerance to environmental conditions.

# Features

- Capacity: 8GB to 128GB
- Form factor: 2.5 inch type (HDD compatible)
- SATA interface: Serial ATA command set compatible
- Power supply: Vcc=5.0V +/-5%
- Operating temperature: Commercial: 0C to +70C
- Performance:

Sequential Read Rate: Sequential Write Rate: Sequential Read IOPS: Access Time: 65MB/sec (max) 50MB/sec (max) 58,675 IOPS 0.1ms

- Shock: 1500G (operating)
- Vibration: 16G (operating)

# Specifications

- Compatibility: Full SATA hard disk compatible
- OS Support: All
- Package: Complete metal housing
- Reliability:

MTBF: >1,000,000 hours Data reliability: Built-in EDC/ECC function Patent pending Wear-leveling algorithms

- Endurance:

Read: Unlimited Write/Erase: >140 years @ 50GB write-erase /day

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Designed and Manufactured in USA

# **Ordering Information**

Capacity	Model No.
8GB	SS8A5C25M
16GB	SS16A5C25M
32GB	SS32A5C25M
64GB	SS64A6C25M
128GB	SS28A6C25M

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# SATA Flash Drive Pin Assignment

### **Signal Segment**

Pin	Signal Name	Description
S1	GND	
S2	RxP	Differential Signal
S3	RxN	Pair for Receive
S4	GND	
S5	TxN	Differential Signal
S6	TxP	Pair for Receive
S7	GND	

### **Power Segment**

Pin	Signal Name	Description
P1	Not Used (3.3V)	N/A
P2	Not Used (3.3V)	N/A
P3	Not Used (3.3V Precharge)	
P4	GND	1st mate
P5	GND	2nd mate
P6	GND	
P7	5V Precharge	5V Power
P8	5V Precharge	5V Power
P9	5V Precharge	
P10	GND	
P11	Reserved	
P12	GND	1st mate
P13	Not Used (12V Precharge)	N/A
P14	Not Used (12V)	
P15	Not Used (12V)	

### **Revision History**

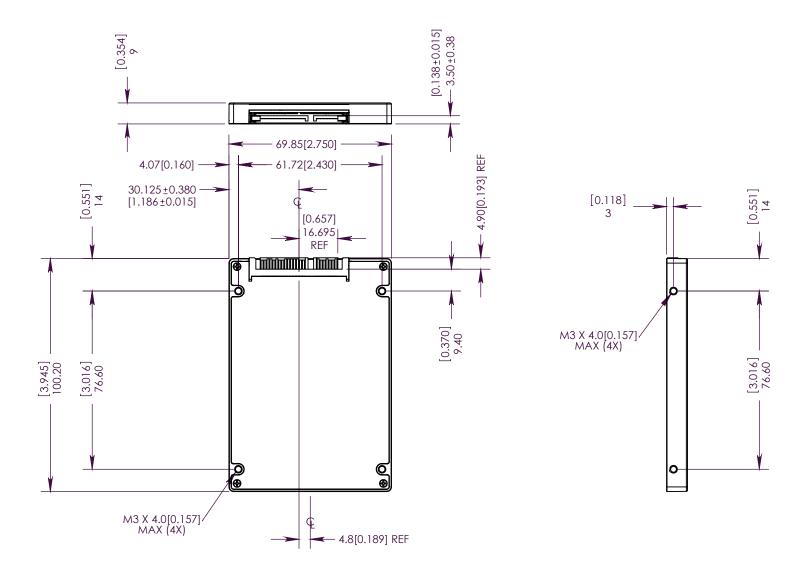
Aug 17, 2007 Rev-A Preliminary Product Specification Released March 21, 2008 Rev-B Revised Photo and Dimension Drawings

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**Mechanical Specifications (low capacities)** 

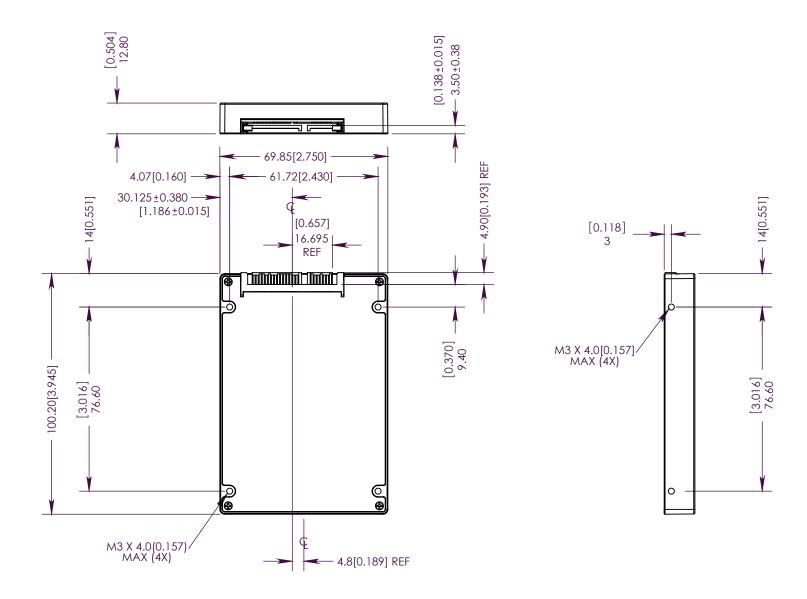


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# 2.5" SATA Solid State Drive

**Mechanical Specifications (high capacities)** 



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