

2.5" SATA Solid State Drive

General Description

The SATA Flash Drive FSD8/16/32/64/28/56GC25H 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, 128GB and 256GB 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 256GB
- 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: 65MB/sec (max)
 - Sequential Write Rate: 50MB/sec (min)
 - Sequential Read IOPS: 58,675 IOPS
 - Access Time: 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



Designed and Manufactured in USA

Ordering Information

Capacity	Model No.
8GB	FSD8GC25H
16GB	FSD16GC25H
32GB	FSD32GC25H
64GB	FSD64GC25H
128GB	FSD28GC25H
256GB	FSD56GC25H

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SATA Flash Drive Pin Assignment

Signal Segment

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

March 21, 2008 Rev-A Preliminary Product Specification Released

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Mechanical Specifications

