

2.5" Elite SATA SSD Drive

General Description

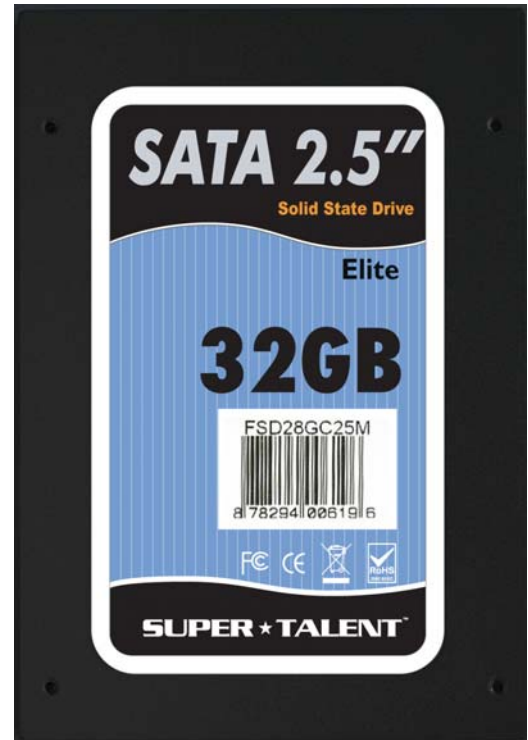
The Elite SATA SSD Drive series is the fastest SSD on the market with a read rate of 100 MB/sec and write rate of 80 MB/sec; thus ranking the performance 1.5-3 times faster than competing products. The SATA Flash Drive FSD16/32PA25M series is a Serial ATA interface solid state disk (SSD) drive that features a flash disk controller chip and NAND type flash memory devices. This 2.5 inch form factor SSD series is available in 16GB and 32GB 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 ATM, factory automation machines, POS

Features

- Capacity: 16GB to 32GB
- 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: 100MB/sec (min)
 - Sequential Write Rate: 80MB/sec (min)
 - Access Time: 0.1ms
- IOPS:
 - Sequential Read: 76K IOPS
 - Sequential Write: 38K IOPS
 - Random Read: 16K IOPS
 - Random Write: 172 IOPS
- 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



Ordering Information

| Capacity | Model No. |
|----------|------------|
| 16GB | FSD16PA25M |
| 32GB | FSD32PA25M |

2.5" Elite SATA Flash Drive

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

Aug 17, 2007 Rev-A Preliminary Product Specification Released

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Mechanical Specifications

