

■ UltraDrive GX Series
SATA-II 3Gbps SSD

SATA Solid State Drive



The UltraDrive GX extreme performance SATA-II SSD uses an advanced new controller and 64MB DRAM cache to deliver exceptionally fast sequential read and write speeds. With no moving parts, the GX is lightweight, uses far less power and is much more resistant to shock and vibration than a hard disk drive.

The UltraDrive GX is also packed with all the latest performance and reliability features. ECC, wear leveling and bad bit management algorithms improve reliability and extend the life of the drive. The GX is available in capacities up to 256GB with .

Physical Specifications

| | |
|----------------|--------------------------|
| Form Factor | 2.5" |
| Capacity* | 32GB - 256GB |
| Dimension | 69.85 x 100.20 x 9.50 mm |
| SATA Interface | Serial ATA-II 3Gbps |
| NAND Flash | MLC / SLC |
| Cache | 64MB DRAM Cache |
| Power Supply | 5V ± 10% |
| Package | Metal housing |

Environmental Specifications

| | |
|-----------------------|------------|
| Operating Shock | 1500G |
| Operating Vibration | 16G |
| Operating Temperature | 0C to +70C |
| Operating Humidity | 5 to 90% |

Reliability Specifications

| | |
|----------------------|---------------------------|
| MTBF | 1,000,000 hours |
| Data Reliability | Built-in EDC/ECC function |
| Data Integrity | 10 years |
| Wear Leveling Algor. | Patent Pending |

Performance Specifications

| | Seq. Read (MB/sec max) | Seq. Write (MB/sec max) |
|------------|---------------------------|----------------------------|
| FTM32GX25H | 200 | 130 |
| FTM64GX25H | 230 | 180 |
| FTM28GX25H | 260 | 195 |
| FTM56GX25H | 260 | 200 |
| FTD32GX25H | 230 | 170 |
| FTD64GX25H | 260 | 210 |
| FTD28GX25H | 260 | 210 |

Ordering Information

| | MLC | SLC |
|-------|------------|------------|
| 32GB | FTM32GX25H | FTD32GX25H |
| 64GB | FTM64GX25H | FTD64GX25H |
| 128GB | FTM28GX25H | FTD28GX25H |
| 256GB | FTM56GX25H | |

© 2009 Super Talent Technology. Specifications subject to change without notice. US patent # 6,547,130 and others apply. 1GB=1,000,000,000 Bytes. Usable capacity may be less than specified after formatting. Actual performance varies depending upon the system configuration and the application used. Performance is highly dependent upon test environment and use case. Consult our benchmarking data for more detailed performance information or benchmark performance in your environment.

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SATA Flash Drive Pin Assignment

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 | 1 st mate |
| P5 | GND | 2 nd mate |
| P6 | GND | |
| P7 | 5V Precharge | 5V Power |
| P8 | 5V Precharge | 5V Power |
| P9 | 5V Precharge | |
| P10 | GND | |
| P11 | Reserved | |
| P12 | GND | 1 st mate |
| P13 | Not Used (12V Precharge) | N/A |
| P14 | Not Used (12V) | |
| P15 | Not Used (12V) | |

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 Transmit |
| S6 | TxP | |
| S7 | GND | |

Revision History

December 5, 2008 Rev-A Preliminary Product Specification Released
 May 7, 2009 Rev-B Updated Performance Specifications
 November 3, 2009 Rev-C Combined MLC and SLC models into one data sheet

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Mechanical Specifications

