

■ 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	5.0Vcc +/- 5%
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	230	160
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	

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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

