SUPER ★ TALENT®
THE BEST MEMORY

TeraDrive FT2

SATA-II 3Gbps SSD

SATA Solid State Drive

TeraDrive™ SSDs are the new pinnacle of performance in enterprise storage. The TeraDrive FT2 is based on the advanced new SandForce™ SF-1500 SSD processor. TRIM and Garbage Collection features are included to ensure exceptional performance, both sequentially and randomly, over the life of the drive with no performance degradation over time.

This drive is native SAS tested and verified for RAID cards, making it ideal for use in servers and workstations. Supporting up to 50,000 random read IOPS, the TeraDrive FT2 is ideal for use in database servers. The TeraDrive FT2 makes no compromises in reliability or endurance with state-of-the-art wear leveling, bad bit management, and excellent ECC with up to 24 bytes correctable per 512 byte sector. Set to revolutionize enterprise storage, the TeraDrive FT2 is available with either MLC or SLC NAND flash, and is offered in capacities from 50GB to 200GB.

Physical Specifications

Form Factor	2.5"
Capacity*	50GB - 200GB
Dimension	69.85 x 100.20 x 9.50 mm
SATA Interface	Serial ATA-II 3Gbps
NAND Flash	MLC / SLC
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 Retention	10 years
Wear Leveling Algor.	Patent Pending

Performance Specifications

Capacity	Seq. Read (MB/sec max)	Seq. Write (MB/sec max)
50GB	285	200
100GB	285	275
200GB	285	275
400GB	285	275

Ordering Information

	MLC	SLC
50GB	FTM05F225H	FTD05F225H
100GB	FTM10F225H	FTD10F225H
200GB	FTM20F225H	FTD20F225H
400GB	FTM40F225H	

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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	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)	

Signal Segment

PIN	Signal Name	Description
S1	GND	
S2	RxP	Differential Signal pair for Receive
S3	RxN	Differential Signal pair for Receive
S4	GND	
S5	TxN	Differential Signal pair for Transmit
S6	TxP	Differential Signal pair for Transmit
S7	GND	

Revision History
January 20, 2010 Rev-A   Released first data sheet

Mechanical Specifications