

TeraDrive CT
SATA-II 3Gbps Native SAS Compatible SSD

SATA Solid State Drive



TeraDrive™ SSDs are the new pinnacle of performance in storage. The TeraDrive CT is based on the advanced new SandForce™ SF-1200 SSD processor. TRIM and Garbage Collection features are included to ensure exceptional sequential performance over the life of the drive with no performance degradation over time. Supporting up to 285MB/sec sequential speeds, the TeraDrive CT delivers exceptional performance in high end laptops and desktops.

This drive is native SAS tested and verified for RAID cards, making it ideal for use in servers and workstations. It also supports TRIM and garbage collection. The TeraDrive CT makes no compromises in reliability or endurance with state-of-the-art wear leveling, bad block management, and excellent ECC with up to 24 bytes correctable per 512 byte sector. Set to revolutionize storage, the TeraDrive CT is available with MLC NAND flash, and is offered in capacities from 60GB to 480GB.

Physical Specifications

Form Factor	2.5"
Capacity*	60GB - 480GB
Dimension	69.85 x 100.20 x 9.50 mm
SATA Interface	Serial ATA-II 3Gbps
NAND Flash	MLC
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)
60GB	285	200
120GB	285	275
240GB	285	275
480GB	285	275

Ordering Information

60GB	FTM06CT25H
120GB	FTM12CT25H
240GB	FTM24CT25H
480GB	FTM48CT25H

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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

May 24, 2010 Rev-A Released first data sheet

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Mechanical Specifications

