

■ ■ **MasterDrive MX Series**

SATA Solid State Drive

SATA-II speeds with MLC Flash



Super Talent's MasterDrive MX series SSD brings the solid state drive to a wholenew audience. No longer just for the military, enterprise and elite users, the MasterDrive MX SSD is truly affordable. And Super Talent doesn't strip out features to bring down the price. With no-compromise features like SATA-II technology for exceptionally fast read speeds of 120MB/sec, and the same resistance to shock and vibration as all Super Talent's SSDs, the MasterDrive MX SSD delivers the performance and reliability today's mobile enthusiasts demand.

Super Talent's Flash management techniques increase reliability and endurance, and continue to provide unprecedented vibration and shock tolerance. Our software and hardware testing ensures utmost quality of each MasterDrive MX SSD. Super Talent offers a 1 year warranty for the MasterDrive MX SSD.

Physical Specifications

Form Factor	2.5"
*Capacity	8GB – 120GB
Dimension	69.85mm x 100.20mm x 9.50mm
SATA Interface	Serial ATA-II
NAND Flash	MLC
Power Supply	5.0V _{cc} ± 5%
Package	Complete metal housing

Endurance Specifications

Read		Unlimited
Write	8GB	4.38 yrs @50GB write-erase/day
	15GB	8.22 yrs @ 50GB write-erase/day
	30GB	16.44 yrs @ 50GB write-erase/day
	60GB	32.88 yrs @ 50GB write-erase/day
	120GB	65.75 yrs @ 50GB write-erase/day

Reliability Specifications

MTBF	+1,000,000 hours
Data Reliability	Built-in EDC/ECC function
Data Integrity	5 years
Wear Leveling Algor.	Patent Pending

Performance Specifications

Seq. Read		120 MB/sec (max)
Seq. Write	Low Cap.	60 MB/sec (max)
	High Cap.	80 MB/sec (max)
Access Time		0.1 ms

Environmental Specifications

Operating Shock	1500G
Operating Vibration	16G
Operating Temp.	0°C to +70°C

Ordering Information

8GB	FTM8GK25H
15GB	FTM15GK25H
30GB	FTM30GK25H
60GB	FTM60GK25H
120GB	FTM20GK25H

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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

April 2, 2008 Rev-A Preliminary Product Specification Released
July 8, 2008 Rev-B Changed write speed to 80MB/sec

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Mechanical Descriptions

