

■ ■ **MasterDrive LX Series**

**SATA Solid State Drive**

**SATA-II speeds with MLC Flash**



Super Talent's MasterDrive LX series SSD brings the solid state drive to a whole new audience. No longer just for the military, enterprise and elite users, the MasterDrive LX 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 100MB/sec, and the same resistance to shock and vibration as all Super Talent's SSDs, the MasterDrive LX 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 LX SSD. Super Talent offers a 1 year warranty for the MasterDrive LX SSD.

**Physical Specifications**

<b>Form Factor</b>	2.5"
<b>*Capacity</b>	64GB - 128GB
<b>Dimension</b>	69.85mm x 100.00mm x 9.50mm
<b>SATA Interface</b>	Serial ATA-II
<b>NAND Flash</b>	MLC
<b>Power Supply</b>	5.0V <sub>cc</sub> ± 5%
<b>Package</b>	Complete metal housing

**Endurance Specifications**

<b>Read</b>		Unlimited
<b>Write</b>	<b>64GB</b>	35.0 yrs @ 50GB write-erase/day
	<b>128GB</b>	70.1 yrs @ 50GB write-erase/day

**Reliability Specifications**

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

**Performance Specifications**

<b>Sequential Read Rate</b>	100 MB/sec (max)
<b>Sequential Write Rate</b>	40 MB/sec (max)
<b>Access Time</b>	0.1 ms

**Environmental Specifications**

<b>Operating Shock</b>	1500G
<b>Operating Vibration</b>	16G
<b>Operating Temp.</b>	0°C to +70°C

**Ordering Information**

<b>64GB</b>	FTM64GO25H
<b>128GB</b>	FTM28GO25H

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\*Usable capacity may be less than specified after formatting.

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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 <sup>st</sup> mate
P5	GND	2 <sup>nd</sup> mate
P6	GND	
P7	5V Precharge	5V Power
P8	5V Precharge	5V Power
P9	5V Precharge	
P10	GND	
P11	Reserved	
P12	GND	1 <sup>st</sup> 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**

July 8, 2008 Rev-A Preliminary Product Specification Released

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Mechanical Descriptions

