

MasterDrive GL Series

SATA Solid State Drive

SATA-II speeds with NAND Flash



Super Talent's MasterDrive GL series SSDs bring solid state drives to a whole new audience. No longer just for the military, enterprise and elite users, the MasterDrive GL 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 150+MB/sec, and the same resistance to shock and vibration as all Super Talent's SSDs, the MasterDrive GL 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 GL SSD.

Physical Specifications

Form Factor	2.5"
*Capacity	16GB - 128GB
Dimension	69.85 x 100.20 x 9.50 mm
SATA Interface	Serial ATA-II
NAND Flash	MLC / SLC
Power Supply	5.0Vcc +/- 5%
Casing	Impact resistant plastic

Performance Specifications

MLC	Seq. Read	150MB/sec (max)
	Seq. Write	100MB/sec (max)
SLC	Seq. Read	170MB/sec (max)
	Seq. Write	130MB/sec (max)
Access Time		0.1ms

Reliability Specifications

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

Ordering Information

Capacity	MLC	SLC
16GB	FTM16GL25H	FTD16GL25H
32GB	FTM32GL25H	FTD32GL25H
64GB	FTM64GL25H	FTD64GL25H
128GB	FTM128GL25H	

Environmental Specifications

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

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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

August 11, 2008	Rev-A Preliminary Product Specification Released
August 11, 2009	Combined MasterDrive OX and PX into new brand name MasterDrive GL

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Mechanical Descriptions

