

■ ■ **MasterDrive RX Series** with RAIDSSD™ Technology

SATA Solid State Drive



Super Talent's MasterDrive RX SSD brings the solid state drive to a whole new audience. No longer just for the military, enterprise and elite users, the MasterDrive RX SSD is truly affordable. And Super Talent doesn't strip out features to bring down the price. With no-compromise features like our unique RAIDSSD Technology and a SATA-II interface for exceptionally fast read speeds of 230MB/sec, write speeds as fast as 200MB/sec, and the same resistance to shock and vibration as all Super Talent's SSDs, the MasterDrive RX SSD delivers the performance and reliability today's mobile enthusiasts demand. The MasterDrive RX is particularly well suited for sequential read and write operations.

Super Talent's Flash management techniques increase reliability and endurance. Our software and hardware testing ensures the utmost quality of each MasterDrive RX SSD. Super Talent offers a 2 year warranty for the MLC MasterDrive RX SSD, and a 3 year warranty for the SLC MasterDrive RX.

Physical Specifications

Form Factor	2.5"	
Capacity	SLC	256GB
	MLC	512GB
Dimension	Type 1	69.85mm x 100.20mm x 9.50mm
	Type 2	69.85mm x 100.20mm x 12.50mm
Interface	Serial ATA 3.0Gb (SATA-II)	
Power Supply	5.0Vcc ± 5%	
Package	Complete Metal Housing	

Endurance Specifications

Device	Read	Write
256GB SLC	Unlimited	1404 years @ 50GB Write-Erase/day
512GB MLC		280 years @ 50GB Write-Erase/day

Reliability Specifications

MTBF	>1,000,000 hours	
Data Integrity	SLC	10 years
	MLC	5 years
Write-erase cycles	SLC	100,000 typical
	MLC	10,000 typical
Warranty	SLC	3 years
	MLC	2 years
Interface	Patent Pending	
Power Supply	5.0Vcc ± 5%	
Package	Complete Metal Housing	

Performance Specifications

Device	Sequential Read Max (MB/sec)	Sequential Write Max (MB/sec)
FTD56GE25H	230	200
FTM12GE25H	230	160

Environmental Specifications

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

Ordering Information

Capacity	Flash	Part Number
256GB	SLC	FTD56GE25H
512GB	MLC	FTM12GE25H

■ ■ **MasterDrive RX Series** with RAIDSSD™ Technology

SATA Solid State Drive

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	

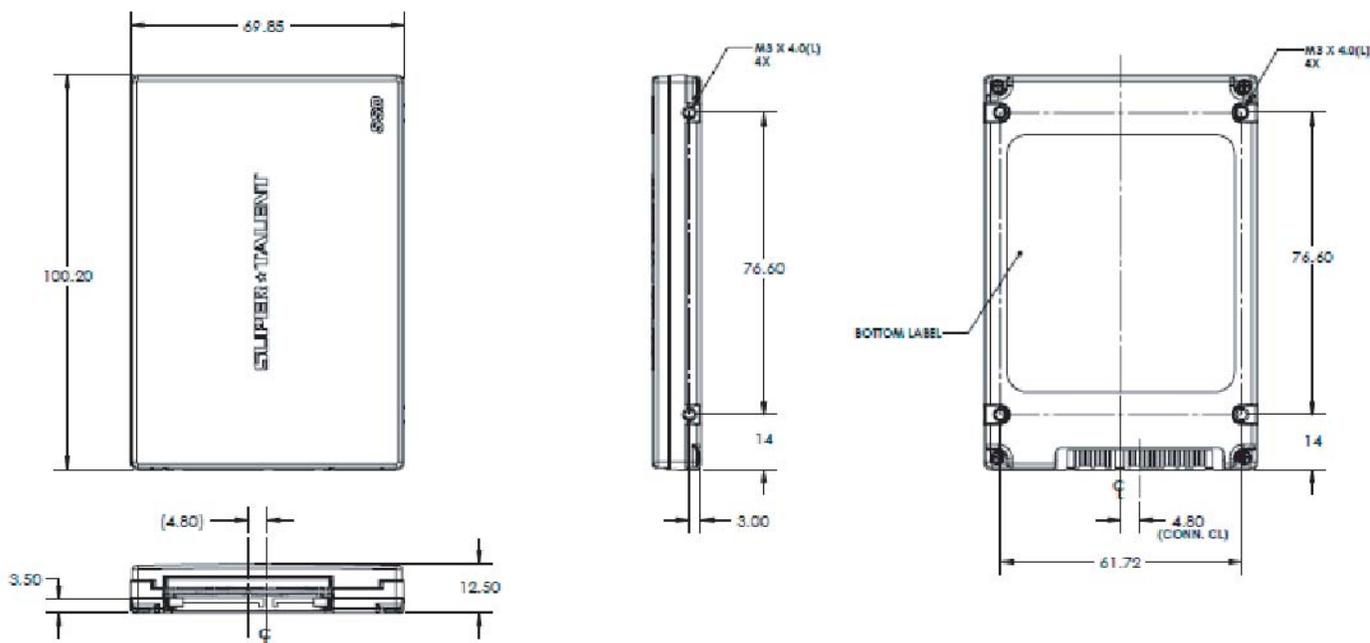
Revision History

April 2, 2009 Rev-A Preliminary Product Specification Released

MasterDrive RX Series with RAIDSSD™ Technology

SATA Solid State Drive

FTM12GE25H, FTD56GE25H 2.5" SSD Outline Drawing



© 2008 Super Talent Technology. Specifications subject to change without notice. US patent #6,547,130 #7,243,185 #7,301,776 #7,318,117 and others apply.