

■ ■ **MasterDrive DX Series**

SATA Solid State Drive

SATA-II speeds with SLC Flash



The MasterDriveDX series SSD with SATA-II technology provides blistering read speeds of 120MB/sec and write speeds of 100MB/sec (for high capacities). Super Talent's patented 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 DX SSD.

MasterDrive DX series SSDs are available in a wide range of capacities to suit any notebook or desktop PC. Super Talent offers a 3 year warranty for the MasterDrive DX SSD.

Physical Specifications

Form Factor	2.5"
*Capacity	15GB – 60GB
Dimension	69.85mm x 100.20mm x 9.50mm
SATA Interface	Serial ATA-II
NAND Flash	SLC
Power Supply	5.0V _{cc} ± 5%
Package	Complete metal housing

Environmental Specifications

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

Ordering Information

15GB	FTD15GK25H
30GB	FTD30GK25H
60GB	FTD60GK25H

Performance Specifications

Seq. Read	120 MB/sec (max)	
Seq. Write	Low Cap.	80 MB/sec (max)
	High Cap.	100 MB/sec (max)
Access Time	0.1 ms	

Reliability Specifications

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

Endurance Specifications

Read	Unlimited	
Write	15GB	82.19 yrs @ 50GB write-erase/day
	30GB	164.38 yrs @ 50GB write-erase/day
	60GB	328.77 yrs @ 50GB write-erase/day

■ MasterDrive DX Series

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, 2008 Rev-A Preliminary Product Specification Released

July 16, 2008 Rev-B Changed Sequential Write Speed

■ ■ MasterDrive DX Series

SATA Solid State Drive

Mechanical Specifications

