

■ ■ **MasterDrive PX Series**

SATA Solid State Drive

SATA-II speeds with SLC Flash



The MasterDrivePX series SSD with SATA-II technology provides blistering read speeds of 170MB/sec and write speeds of 130MB/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 PX SSD.

MasterDrive PX 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 PX SSD.

Physical Specifications

Form Factor	2.5"
*Capacity	16GB – 128GB
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

16GB	FTD16GL25H
32GB	FTD32GL25H
64GB	FTD64GL25H
128GB	FTD28GL25H

Performance Specifications

Seq. Read	170 MB/sec (max)
Seq. Write	130 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	16GB	87.7 yrs @ 50GB write-erase/day
	32GB	175.3 yrs @ 50GB write-erase/day
	64GB	350.7 yrs @ 50GB write-erase/day
	128GB	701.4 yrs @ 50GB write-erase/day

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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

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Mechanical Specifications

