

## ■ ■ 1.8-Inch IDE/PATA ZIF SSD

### 40-pin ZIF with IDE Interface

### MasterDrive GF

Super Talent's 1.8-inch IDE ZIF SSD uses reliable and inexpensive NAND flash paired with a state-of-the-art controller to deliver excellent performance. This SSD is faster, lighter weight is more rugged and reliable, and uses far less power than a hard drive.

Key Features include:

- MLC NAND Flash
- 80 MB/sec sequential read and 40 MB/sec sequential write speeds
- Standard IDE / Parallel ATA interface
- ECC, bad bit management and wear leveling built into the controller
- 2-year warranty



1.8-inch IDE ZIF

### Physical Specifications

Form Factor	1.8"
Capacity*	16GB - 128GB
Dimension	71.2 x 54.2 x 5.0 mm
Interface	40-pin PATA ZIF
NAND Flash	MLC
Power Supply	3.3Vcc +/- 5%
Package	Complete metal housing

### Environmental Specifications

Operating Shock	1500G
Operating Vibration	16G
Operating Temperature	0C to +70C
Operating Humidity	5 to 90%

### Reliability Specifications

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

### Performance Specifications

Seq. Read	80 MB/sec (max)
Seq. Write	40 MB/sec (max)
Access Time	0.1ms

### Endurance Specifications

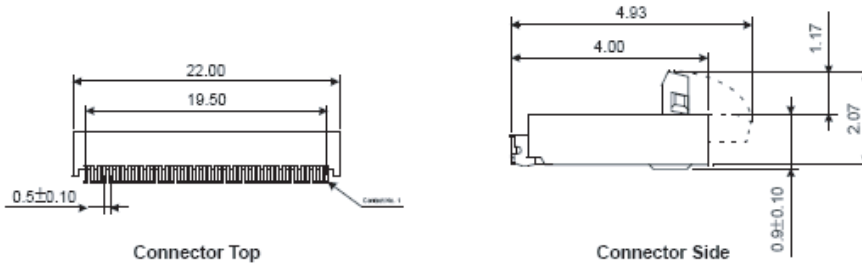
Read		Unlimited
Write	16GB	8.7 yrs @ 50GB write-erase/day
	32GB	17.5 yrs @ 50GB write-erase/day
	64GB	35.1 yrs @ 50GB write-erase/day
	128GB	70.1 yrs @ 50GB write-erase/day

### Ordering Information

16GB	FZM16GF18H
32GB	FZM32GF18H
64GB	FZM64GF18H
128GB	FZM28GF18H

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40-pin IDE ZIF Pin Assignment



**Pin Assignment**

Pin No	Signals	Pin No	Signals
1	Reserved	21	GROUND
2	Reserved	22	DMARQ
3	$\overline{\text{RESET}}$	23	GROUND
4	GROUND	24	$\overline{\text{DIOW}}$
5	DD7	25	$\overline{\text{DIOR}}$
6	DD8	26	GROUND
7	DD6	27	IORDY
8	DD9	28	GROUND
9	DD5	29	$\overline{\text{DMACK}}$
10	DD10	30	INTRQ
11	DD4	31	DA1
12	DD11	32	$\overline{\text{PDIAG}}$
13	DD3	33	DA0
14	DD12	34	DA2
15	DD2	35	$\overline{\text{CS0}}$
16	DD13	36	$\overline{\text{CS1}}$
17	DD1	37	$\overline{\text{DASP}}$
18	DD14	38	3.3V
19	DD0	39	3.3V
20	DD15	40	Reserved

**Revision History**

August 28, 2009

Rev-A Preliminary Product Specification Released