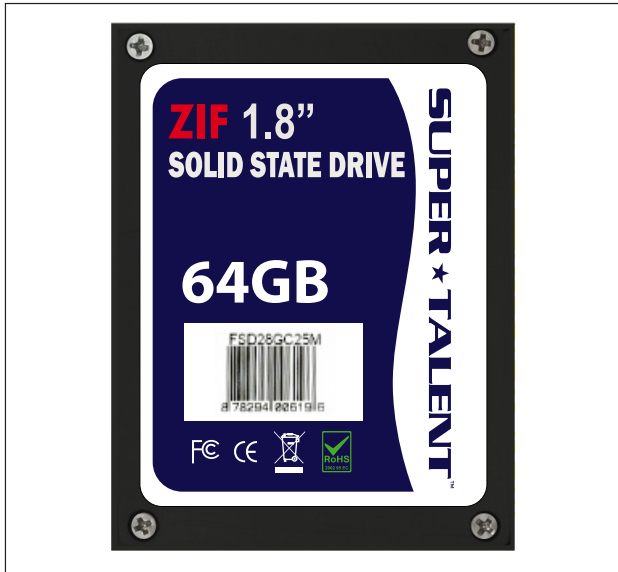# DuraDrive ZT Series

ZIF Solid State Drive

Super Talent's DuraDrive ZT SSD series represent the next generation in data storage. Thanks to a unique Flash disk control chip and premium NAND Flash memory, DuraDrive ZT SSDs combine unprecendented vibration and shock tolerance with impressive speeds. Super Talent's patented Flash management techniques increase reliability and endurance, and through our software and hardware testing ensures quality of each DuraDrive ZT SSD. The DuraDrive ZT series supports PATA data transfer and is available in a variety capacities to fit any application.

The Dura Drive ZT SSD is geared specifically for applications that require high tolerance to environmental conditions. Example industries include:

- Media Players
- Tablet PC's
- Laptops
- Handheld Electronic Devices

Physical Specifications

Form Factor	1.8''
*Capacity	16G - 64GB
Dimension	71.0mm x 54.0mm x 5.0mm
Interface	IDE
Connector	ZIF
Power Supply	$3.3V_{cc} \pm 5\%$
Package	Complete metal housing

Performance Specifications

Sequential Read Rate	35 MB/sec (max)
Sequential Write Rate	30 MB/sec (max)
Access Time	0.1 ms

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

Environmental Specifications

Shock (operating)		1500G
Vibration (operating)		16G
Operating Temp.	Industrial	-40°C to +85°C
	Commercial	0°C to +70°C

Reliability Specifications

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

Ordering Information

16GB	FZD16GY18M
32GB	FZD32GY18M
64GB	FZD64GY18M

ZIF Flash Drive Pin Assignment

Connector Top

Connector Side
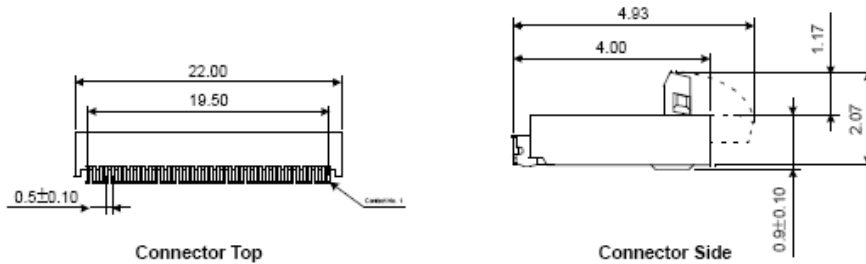
Pin No	Signals	Pin No	Signals
1	Reserved	21	GROUND
2	Reserved	22	DMARQ
3	$\overline{\text{RESET}}$	23	GROUND
4	GROUND	24	$\overline{\text{DIOW}}$
5	DD7	25	$\overline{\text{DIOR}}$
6	DD8	26	GROUND
7	DD6	27	IORDY
8	DD9	28	GROUND
9	DD5	29	$\overline{\text{DMACK}}$
10	DD10	30	INTRQ
11	DD4	31	DA1
12	DD11	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

April 2, 2008   Rev-A Preliminary Product Specification Released
November 7, 2008   Rev-B Changed part numbers

Mechanical Specifications for 1.8" DuraDrive ZT SSD

2.80

47   3.50

65.40   71

54

5

1.35
(CONN CL)

CL

COVER TOP,
METAL

WARRANTY VOID
LABEL, 2X

LABEL TOP

SCREW, FH M2 X 3(L)
4X

CONNECTOR
ZIF 1.8" IDE 40P

COVER BOTTOM,
METAL