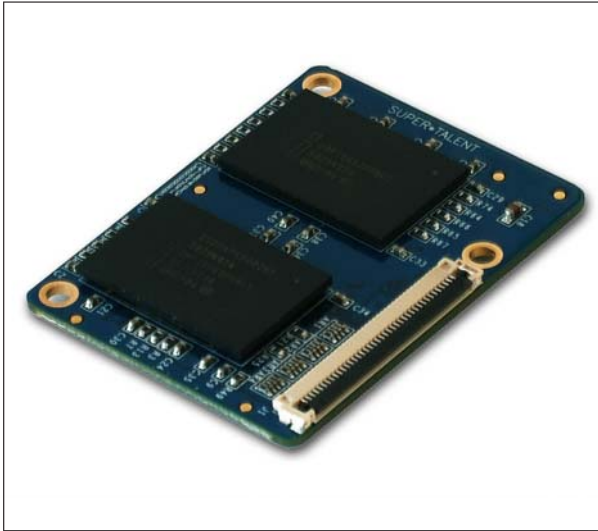


■ 1.0-inch Solid State Drive (SSD)

IDE interface with ZIF connector



1.0" Solid State Drive

Super Talent has teamed up with Intel Corporation to design and produce one of the world's smallest SSDs, in a tiny 1.0" form factor. These miniature powerhouses are targeted for the ultra-mobile PC (UMPC) and digital multimedia broadcasting (DMB) and embedded systems markets. For the smallest possible profile and lightest weight, our 1.0" SSDs feature an enclosure-free design.

And like all Super Talent's SSDs, the 1.0" SSD provides fast read and write speeds, legendary shock, vibration and temperature resistance, and long life.

Physical Specifications

Form Factor	1.0"
*Capacity	2GB – 8GB
Dimension	30mm x 40mm x 4mm
Interface	IDE
Connector	ZIF
NAND Flash	SLC
Power Supply	3.3V _{cc} ± 5%

Performance Specifications

Sequential Read Rate	40 MB/sec (max)
Sequential Write Rate	30 MB/sec (max)
Access Time	0.1 ms

Environmental Specifications

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

Endurance Specifications

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

Reliability Specifications

Read	Unlimited	
Write	2GB	11.0 yrs @ 50GB write-erase/day
	4GB	21.9 yrs @ 50GB write-erase/day
	8GB	43.8 yrs @ 50GB write-erase/day

Ordering Information

2GB	FHD2GN10
4GB	FHD4GN10
8GB	FHD8GN10

■ 1.0-inch Solid State Drive (SSD)

IDE connector ZIF interface

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
September 22, 2008

Rev-A Preliminary Product Specification Released