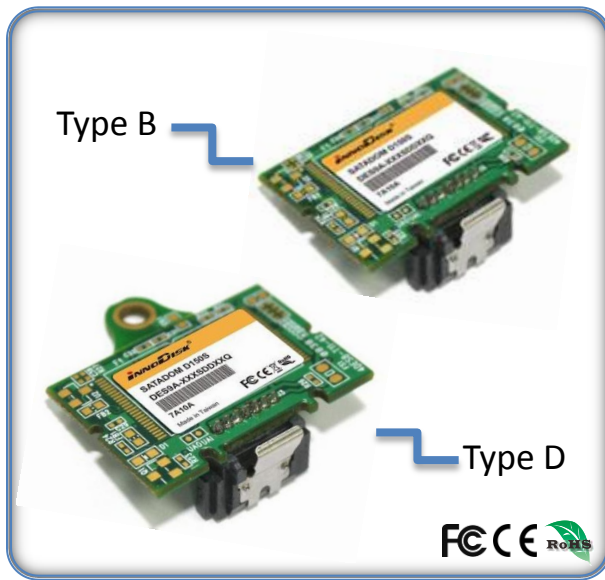


SATADOM D150 SH-L



Features

- Zero mechanical interference
- S.M.A.R.T. & i-S.M.A.R.T. Supported
- Intelligent system for error recovery
- Excellent data transfer speed
- Built-in Pin7 VCC
- Mechanical design for anti-vibration

R: 35MB/s
W: 31MB/s

SATA II
3Gb/s

ECC &
Wear leveling

Thermal
sensor

S.M.A.R.T

Pin 7 VCC

Specifications

Connector Type	Standard 7 Pin SATA Connector
Flash Type	SLC (Single Level Cell)
Density	1GB, 2GB, 4GB, 8GB, 16GB
Transfer Mode	SATA II, SATA I, PIO 0~4, MDMA 0~2, UDMA 0~6
Sustained R/W Performance	Read : 35 MB/sec (max.) Write : 31 MB/sec (max.)

Environmental

DC Input	+5V DC $\pm$ 5%
Power consumption (Max.)	Read : 155 mA Write : 168 mA Idle : 68 mA
Operating Temperature	0°C~+70°C (Standard Grade) -40°C~+85°C (Industrial Grade)
Storage Temperature	-55°C~+95°C
Humidity	Relative Humidity: 10-95%, non-condensing
Flash Endurance	100,000 program/erase cycles
MTBF	> 3,000,000 hours
Certification	CE, FCC, RoHS
Warranty	5 years

Special Features

Pin7 VCC	Supported (Refer to the following page)
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Mechanicals

Dimension (W x L x H)	30.3mm x 20.4mm x 12.25mm
Weight	3.5g $\pm$ 2g
Vibration	7 Hz to 2K Hz, 3 axes
Shock	Duration: 0.5ms, 1500G, 3 axes

Health monitoring Tool

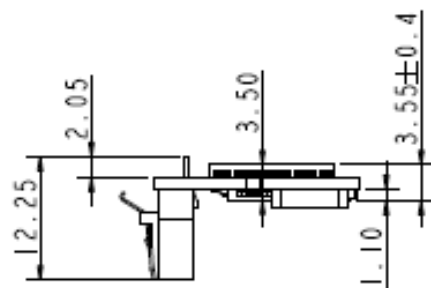
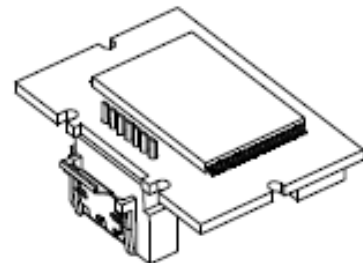
S.M.A.R.T.	Supported
i-S.M.A.R.T.	Supported (Utility for Windows, Linux)

Ordering Information

Capacity	Standard Grade	Industrial Grade
1GB	DES8B/D- 01GJ30AC2SBF	DES8B/D- 01GJ30AW2SBF
2GB	DES8B/D- 02GJ30AC2SBF	DES8B/D- 02GJ30AW2SBF
4GB	DES8B/D- 04GJ30AC2SBF	DES8B/D- 04GJ30AW2SBF
8GB	DES8B/D- 08GJ30AC2SBF	DES8B/D- 08GJ30AW2SBF
16GB	DES8B/D- 16GJ30AC2SBF	DES8B/D- 16GJ30AW2SBF

- The part number ends with "F" which can support both power cable or smart Pin7 Vcc.
- Change DES8B or DES8D for different Type!

DESIGN • SERVICE • QUALITY • DELIVERY



Pin7VCC MB Reference Circuit Design

TO HOST

South Bridge

TO DEVICE

TI: TPS5S30BV-1 (latch off type)

Current Limit at 1.3A

HOST_RX ==> Device 1

HOST_TX ==> Device 1

SB_GPIOL

EX : SB_GPIOL set as input -- for over current flag

1. Customers DO NOT have to use the power cable for the severe condition.
2. Pin7 VCC can cost down the manufactured charge.
3. Followed by our suggested circuit, you can increase the options for SATA device, no matter for InnoDisk SATADOM or other DOM

*SATADOM D150QH with Pin7 VCC is designed with a fuse (polyswitch500mA, 6V) on Pin7's circuit

InnoDisk suggests that customers MUST design their board with a fuse to prevent over current. In other words, customers are suggested NOT “directly” layout 5V VCC to SATA socket on board. Therefore, we strongly suggest our below circuit to protect MB or device, either by using “POWER SWITH” or “JUMPER+FUSE”.