

SATADOM D150SV-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
Write Protect

Specifications

Connector Type	Standard 7 Pin SATA Connector
Flash Type	SLC (Single Level Cell)
Density	2GB, 4GB, 8GB, 16GB, 32GB, 64GB
Transfer Mode	SATA II, SATA I, PIO 0~4, MDMA 0~2, UDMA 0~6
Sustained R/W Performance	Read : 130 MB/sec (max.) Write : 120 MB/sec (max.)

Environmental

DC Input	+5V DC $\pm$ 5%
Power consumption (Max.)	Read: 200 mA Write: 210 mA Idle: 110 mA
Operating Temperature	0°C~+70°C (Standard Grade) -40~+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

Security	Write Protection
Pin7 VCC	Supported (Refer to the following page)

Mechanicals

Dimension (W x L x H)	32.9mm x 29.5mm x 8.0mm
Weight	5.5g $\pm$ 1g
Vibration	7 Hz to 2K Hz, 3 axes
Shock	Duration: 0.5ms, 1500G, 3 axes

Health monitoring Tool

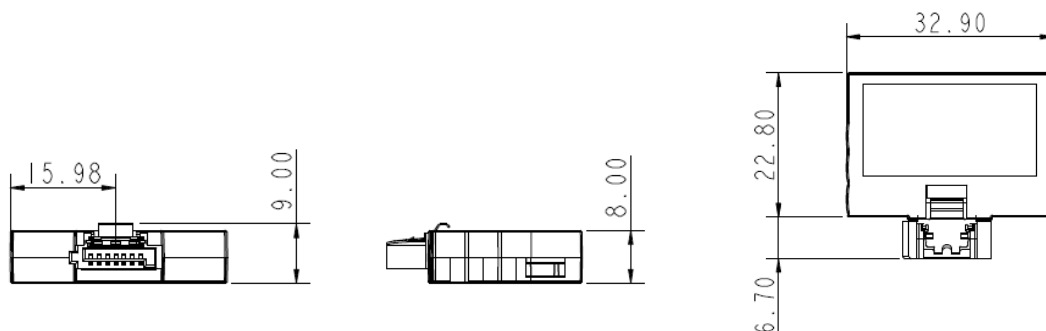
S.M.A.R.T.	Supported
i-S.M.A.R.T.	Supported (Utility for Windows, Linux)

Ordering Information

Capacity	Standard Grade	Industrial Grade
1GB	DES8- <u>01G</u> J30A <u>C2</u> SBF	DES8- <u>01G</u> J30A <u>W2</u> SBF
2GB	DES8- <u>02G</u> J30A <u>C2</u> SBF	DES8- <u>02G</u> J30A <u>W2</u> SBF
4GB	DES8- <u>04G</u> J30A <u>C2</u> SBF	DES8- <u>04G</u> J30A <u>W2</u> SBF
8GB	DES8- <u>08G</u> J30A <u>C2</u> SBF	DES8- <u>08G</u> J30A <u>W2</u> SBF
16GB	DES8- <u>16G</u> J30A <u>C2</u> SBF	DES8- <u>16G</u> J30A <u>W2</u> SBF

The part number ends with "F" which is capable to support both power cable and smart Pin7 Vcc.

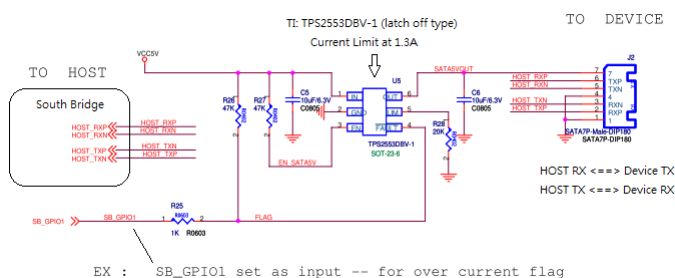
Mechanical Dimension



SATADOM D150SV-L mechanical dimensions
(* Tolerance is $\pm 0.1\text{mm}$)

Pin7VCC MB Reference Circuit Design

Pin7 VCC Advantages



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 D150SV-L with Pin7 VCC is designed with a fuse (polyswitch500mA, 6V) on Pin7's circuit

Recommendation for Pin7 VCC

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 SWITCH" or "JUMPER+FUSE".