MSATA MINI D150



FEATURES

- Support static wear leveling algorithm
- S.M.A.R.T. & i-S.M.A.R.T. Supported
- Intelligent system for error recovery
- Excellent data transfer speed
- Compliant with JEDEC MO-300, SATA-IO mini SATA

R: 66MB W: 65MB | S.M.A.R.T | Wear Leveling | PIO 0~4 Support | MDMA UDMA | MO-300

Specifications

Connector Type	miniPCIe Pin Define for SATA Signal, 23:TX+; 25:TX-; 31:RX-; 33:RX+
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：66MB/sec (max.) Write：65 MB/sec (max.)

Environmental

DC Input	+3.3V DC ± 5%
Power consumption (Max.)	Read: 180 mA Write: 220 mA Idle: 110 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

Mechanicals

Dimension (W x L x H)	29.85mm x 26.8mm x 3.7mm
Weight	7g±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)

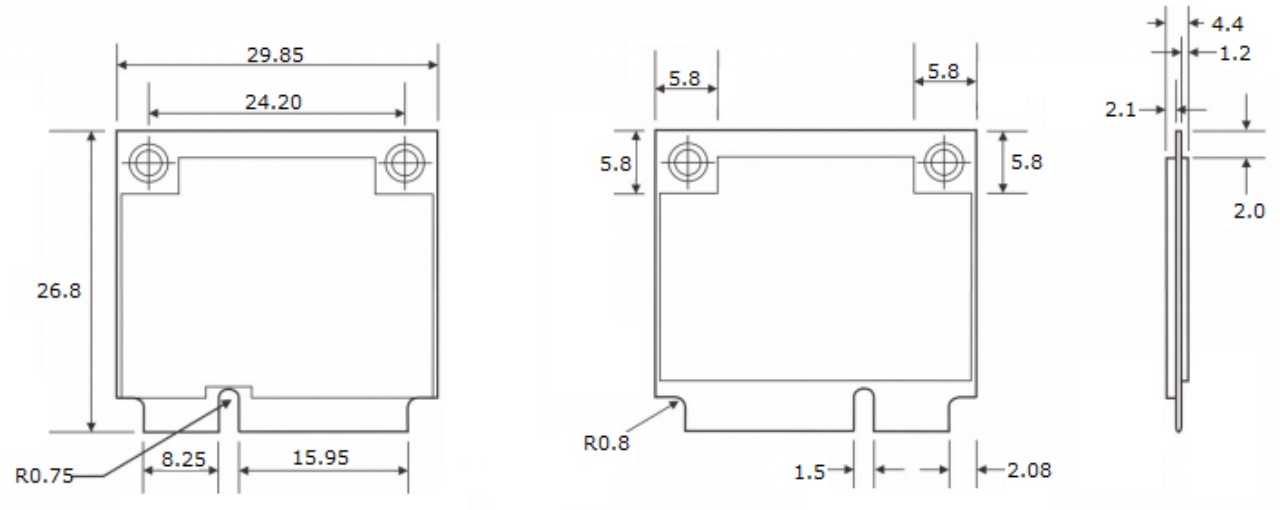
Ordering Information

Capacity	Standard Grade	Standard Grade
1GB	DHPS-01GJ30AC1SS	DHPS-01GJ30AW1SS
2GB	DHPS-02GJ30AC1DS	DHPS-02GJ30AW1DS
4GB	DHPS-04GJ30AC1DS	DHPS-04GJ30AW1DS
8GB	DHPS-08GJ30AC1DT	DHPS-08GJ30AW1DT
16GB	DHPS-16GJ30AC1DT	DHPS-16GJ30AW1DT

DESIGN ◎ SERVICE ◎ QUALITY ◎ DELIVERY

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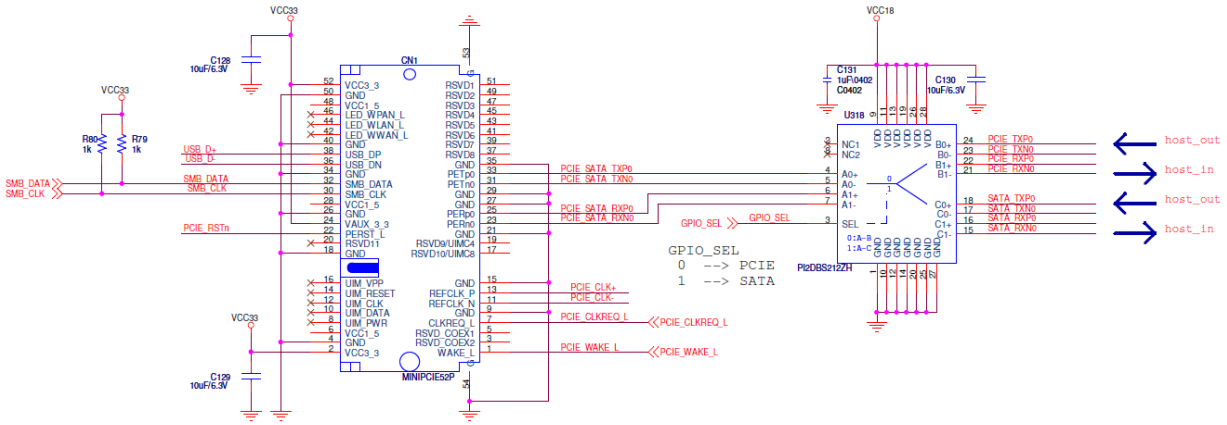
Mechanical Dimension



Tolerance ± 0.1mm

The pin assignment, component keep out area of InnoDisk mSATA mini D150 is followed by JEDEC MO300 Specification.

PCIe and SATA Signal Switch MB Reference Circuit Design



We suggested MB can be designed a "signal bus switch IC" to transfer the differential channels. Due to the bi-directional nature of bus switch IC, it can be used to allocate bandwidth between PCI express and SATA II signal. You can increase one more option for your miniPCIe device.