

INNOLITE MSATA D150Q



FEATURES

- Support static wear leveling algorithm
- S.M.A.R.T. & i-S.M.A.R.T. Supported
- Discerning data Retention optimization
- Sage read disturb management
- Dynamic and static wear-leveling
- 100% compliant with JEDEC MO-300 SPEC

R: 127MB
W: 76MB

S.M.A.R.T

Thermal
sensor

Low power
detection

AHCI
support

Write
protector

Specifications

Connector Type	miniPCIe Pin Define for SATA Signal, 23:TX+; 25:TX-; 31:RX-; 33:RX+
Flash Type	MLC (Multi Level Cell)
Density	4GB, 8GB, 16GB, 32GB, 64GB and 128GB
Transfer Mode	SATA II, SATA I, PIO 0~4, MDMA 0~2, UDMA 0~6
Sustained R/W Performance	Read : 127 MB/sec (max.) Write : 76 MB/sec (max.)

Environmental

DC Input	+3.3V DC $\pm$ 5%
Power consumption (Max.)	Read: 277 mA Write: 353 mA Idle: 168 mA
Operating Temperature	0°C~+70°C (Standard Grade) -20°C~+85°C (Extended Grade)
Storage Temperature	-55°C~+95°C
Humidity	Relative Humidity: 10-95%, non-condensing
Flash Endurance	3,000 program/erase cycles
MTBF	> 4,000,000 hours
Certification	CE, FCC, RoHS
Warranty	2 years

Mechanicals

Dimension (W x L x H)	29.85mm x 50.8mm x 3.5mm
Weight	7g $\pm$ 1g
Vibration	7 Hz to 2K Hz, 3 axes
Shock	Duration: 0.5ms, 1500G, 3 axes

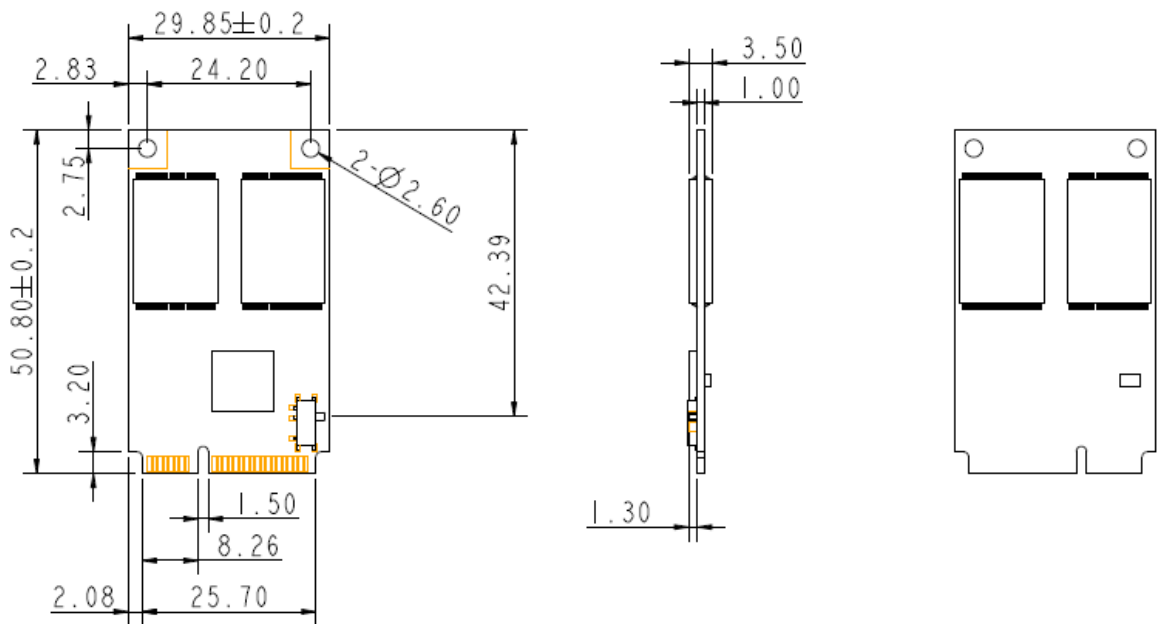
Health monitoring Tool

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

Ordering Information

Capacity	Standard Grade	Extended Grade
4GB	DRPS-04GJ30A C 2SN	DRPS-04GJ30A E 3SN
8GB	DRPS-08GJ30A C 2DN	DRPS-08GJ30A E 3DN
16GB	DRPS-16GJ30A C 2QN	DRPS-16GJ30A E 3QN
32GB	DRPS-32GJ30A C 2QN	DRPS-32GJ30A E 3QN
64GB	DRPS-64GJ30A C 2QN	DRPS-64GJ30A E 3QN
128GB	DRPS-A28J30A C 2QN	DRPS-A28J30A E 3QN

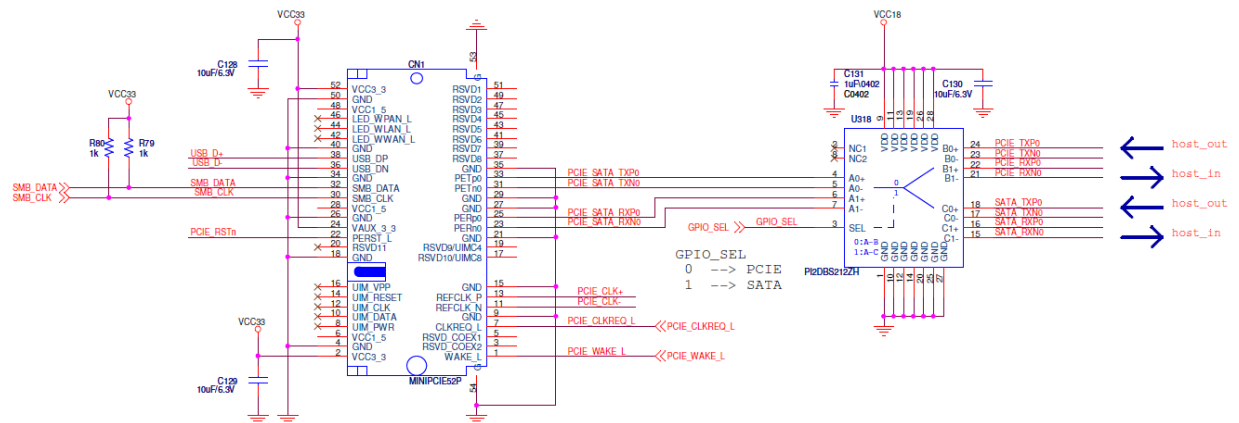
Mechanical Dimension



Tolerance ± 0.2mm

The pin assignment, component keep out area of InnoDisk mSATA D150Q 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.