

Apacer

The Most **Reliable**
Storage For Industries



mSATA H1-M



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Overview

Continuing the market heat of its reliable industrial SSDs, Apacer Technology has recently launched a brand new ultra slim industrial SATA3.0 SSDs: the mSATA H1-M, compliant with the MO-300 standard. This model made under 1ynm processes extremely competitive for its ultra slim appearance, high speed, high stability, and wide temperature operation for industrial uses. To enhance data security, Apacer Technology has improved the ECC (error correcting code) capability to 72bit/1K bytes for mSATA H1-M to significantly upgrade data security and stability. To fulfill the industrial demand for longer durability and energy saving, Apacer mSATA H1-M support the DEVSLP (Device Sleep) protocol to ensure energy is effectively used in every minute even after entering low-power condition in standby mode.



Feature

- Mini PCIe form factor(50.8x29.8mm)
- Compliant with JEDEC MO-300 standard
- Global wear-leveling and Block Management
- Built-in ATA Secure Erase and S.M.A.R.T. Functions
- TRIM command support
- DEVSLP Support

Specifications

Model	mSATA H1-M
Interface	SATA 3.0 (6Gb/s)
Connector	52-pin mSATA
Form Factor	MO-300 (Mini PCIe)
NAND Flash Type	MLC
Capacity	8GB~256GB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 490
Sustained Write Performance (MB/sec)	Up to 175
ECC Engine	Built-in 72-bit per 1K bytes BCH ECC
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-40~ + 85
Storage Temperature (°C)	-40~ + 85
Shock	Operation: 50G, 11ms Non-operation: 1500G, 0.5ms
Vibration	Operation: 7.69 Grms, 20~2000 Hz/random (compliant with MIL-STD-810G) Non-operation: 15 Grms, 10 ~ 2000 Hz/sine
Operating Voltage	3.3V ± 5%
Power Consumption	Active mode: 420 mA & Idle mode: 90mA
Dimension (L x W x H)	50.80 x 29.85 x 3.85 mm
MTBF (hours)	>1,000,000

