

Apacer

The Most **Reliable**
Storage For Industries

Industrial SD H2-M



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Overview

Apacer SD H2-M is compatible with the SD card version 5.1. The command list supports [Physical Layer Specification Ver5] definitions. Card Capacity of Non-secure Area, Secure Area Supports [Security Specification Ver5] Specifications. Random performance of SD H2-M is much more enhanced than before.



The maximum transfer speed can be achieved along with UHS-I compliant devices. Besides, Video Speed Class is compliant with V10 and V30, which are mainly useful for camcorders, video recorders and other devices with video recording capabilities. With V10 and V30 speed mode, SD card is recommended for high resolution and high quality 4K video recording. Apacer SD H2-M card is also compliant with Application Performance Class A1, optimized for 4K small file random read/write IOPS, delivering minimum read/write performance at 1,900/800 IOPS at least.

The SD 5.1 card comes with 9-pin interface, designed to operate at maximum operating frequency of 50MHz or 100MHz. It can alternate communication protocol between the SD mode and SPI mode and is backward compatible with SD 2.0 devices. It performs data error detection and correction with very low power consumption.

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Overview

Apacer Industrial SD 5.1 card with high performance, reliability and compatibility is well adapted for hand-held applications, medical, surveillance systems and automotive markets.

*The actual available memory on the device is less than what is listed on the package. This is due to small discrepancies in file formats and algorithms used by various operating systems. In addition, a portion of memory space is reserved for system files and data sectors for better performance.

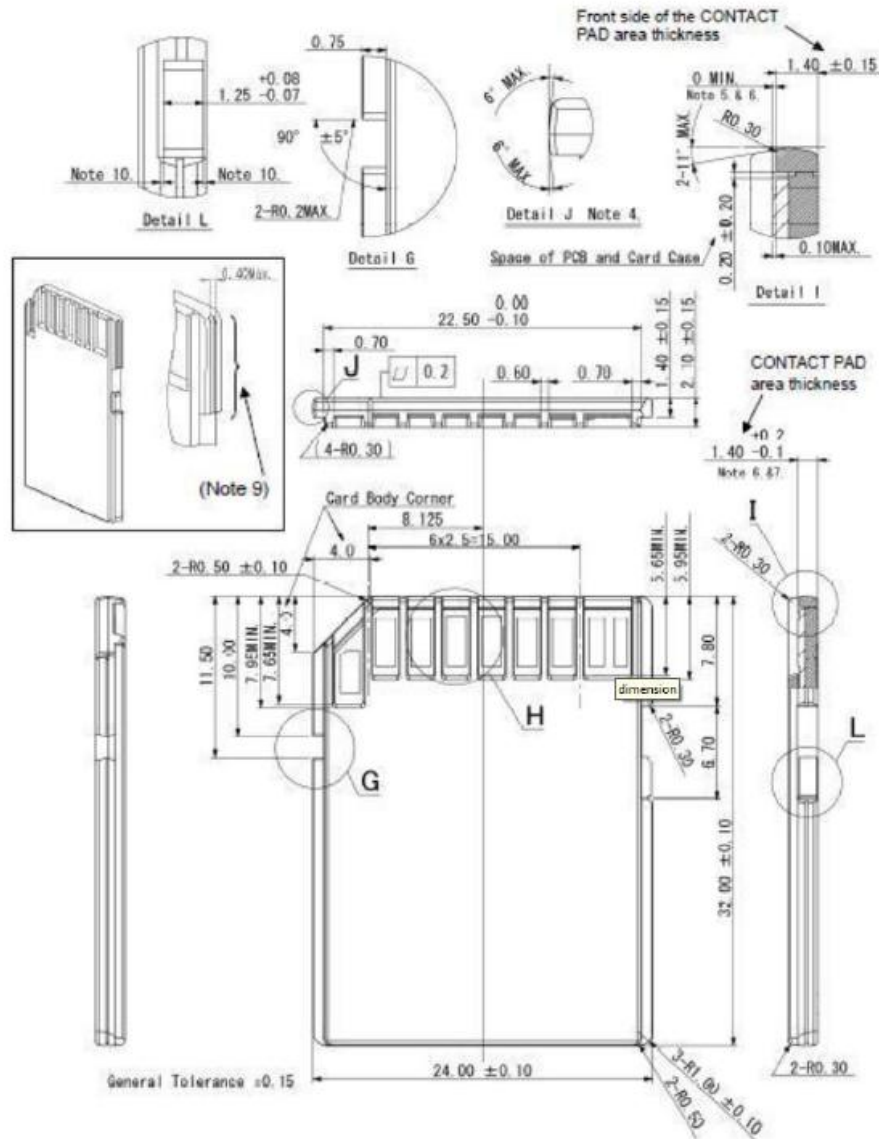
Feature

- Compliant with SD 5.1 Specification.
- S.M.A.R.T supported.
- Wear-Leveling and Block Management.
- Support Class 10 with UHS-I.
- Low Power Consumption.
- Wide Temperature Support (Optional).

Specifications

Model	Industrial SD H2-M
Interface	SD3.0
Connector	-
Form Factor	SD
Operation Mode	NULL
Transfer Mode	NULL
NAND Flash Type	MLC
Capacity	SDHC: 4GB~32GB
Sustained Read Performance (MB/sec)	Up to 90
Sustained Write Performance (MB/sec)	Up to 42
ECC Engine	Built-in 43-bit per 1K bytes BCH ECC
IOPs (4K Random Write)	800
Standard Operating Temperature (°C)	-25 ~ + 85
Extended Operating Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-40 ~ + 85
H/W Write Protect	-
Shock	(Operating) 1,500G, 0.5ms
Vibration	20Hz~80Hz/1.52mm (frequency/displacement) 80Hz~2,000Hz/20G (frequency/accelerate)
Operating Voltage	3.3 V ± 5%
Power Consumption	Active mode: 105mA ; Idle mode: 270 mA
Dimension (L x W x H)	32 x 24 x 2.1 (mm)
MTBF (hours)	>3,000,000

Mechanical Specification



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