The Most **Reliable** Storage For Industries

Industrial SDHC 5.1 H2-M





ST170-7LP2

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 H1-M. 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.

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.



ST170-7LP2

Feature

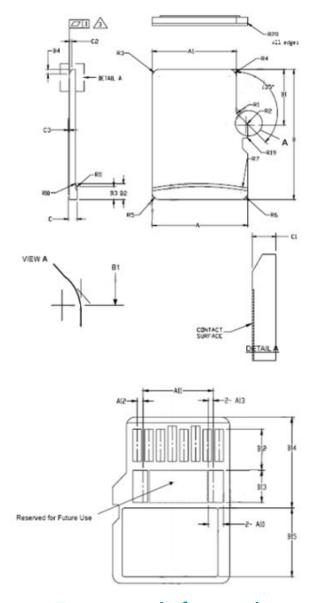
- Built-in advanced ECC algorithm
- Global Wear Leveling
- Flash bad-block management
- Page Mapping
- S.M.A.R.T.
- Power Failure Management
- Read Disturb Management



Specifications

Model	Industrial SDHC 5.1 H2-M
Interface	The SD 5.1 card comes with 9-pin
Form Factor	SD
NAND Flash Type	MLC
Capacity	SDHC: 4GB~32GB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 90
Sustained Write Performance (MB/sec)	Up to 42
ECC Engine	Built-in 42-bit per 1K bytes BCH ECC
IOPS (4K Random Write)	Up to 800
Standard Operating Temperature (°C)	-25 ~ + 85
Storage Temperature (°C)	-40 ~ + 85
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: 105 mA & Idle mode: 270 uA
Dimension (L x W x H)	24mm x 32mm x 2.1mm
MTBF (hours)	>3,000,000

Mechanical Specification



Unit: mm

For more information, contact your Apacer representative

Global Presence

Taiwan (Headquarters) Apacer Technology Inc. Tel: +886-2-2267-8000 Fax: +886-2-2267-2261

Apacer Technology B.V. Tel: +31-40-267-0000 Fax: +31-40-290-0686 U.S.A. Apacer Memory America, Inc. Tel: +1-408-518-8699 Fax: 1-510-249-9551 China Apacer Electronic(Shanghai) Co., Ltd. Tel: +86-21-6228-9939

Japan

Apacer Technology Corp. Tel: +81-3-5419-2668 Fax: +81-3-5419-0018 Apacer Technologies Pvt. Ltd. Tel: +91-80-41529061~3 Fax: +91-80-41700215