Apacer

The Most **Reliable** Storage For Industries

CH120-SD



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Overview

CH120-SD



Apacer CH120-SD SD card is fully compliant with the SD Memory Card Association specifications. It supports the command set defined in the SD Memory Card Part 1 Physical Layer Specification Version 6.1 and configurable capacities for both the non-secure area and secure area in accordance with the SD Memory Card Part 3 Security Specification Version 4.0.

The SD card features a 9-pin interface and supports operating frequencies of up to 208 MHz. It supports both SD and SPI communication modes, allowing flexible integration into a wide range of host systems. In addition, the card incorporates advanced error detection and correction mechanisms to ensure high data integrity while maintaining low power consumption.

With high performance, reliable operation, wide compatibility, Apacer CH120-SD SD card is a popular choice in semi-industrial and medical markets, offering customized firmware solutions to meet specific application needs.

Features

- Built-in advanced ECC algorithm
- Global Wear Leveling
- Flash bad-block management
- Power Failure Management
- Flash Translation Layer: Page Mapping
- S.M.A.R.T. Support
- Smart Read Refresh™
- Support SLC-liteX (P/E cycle: 30K)

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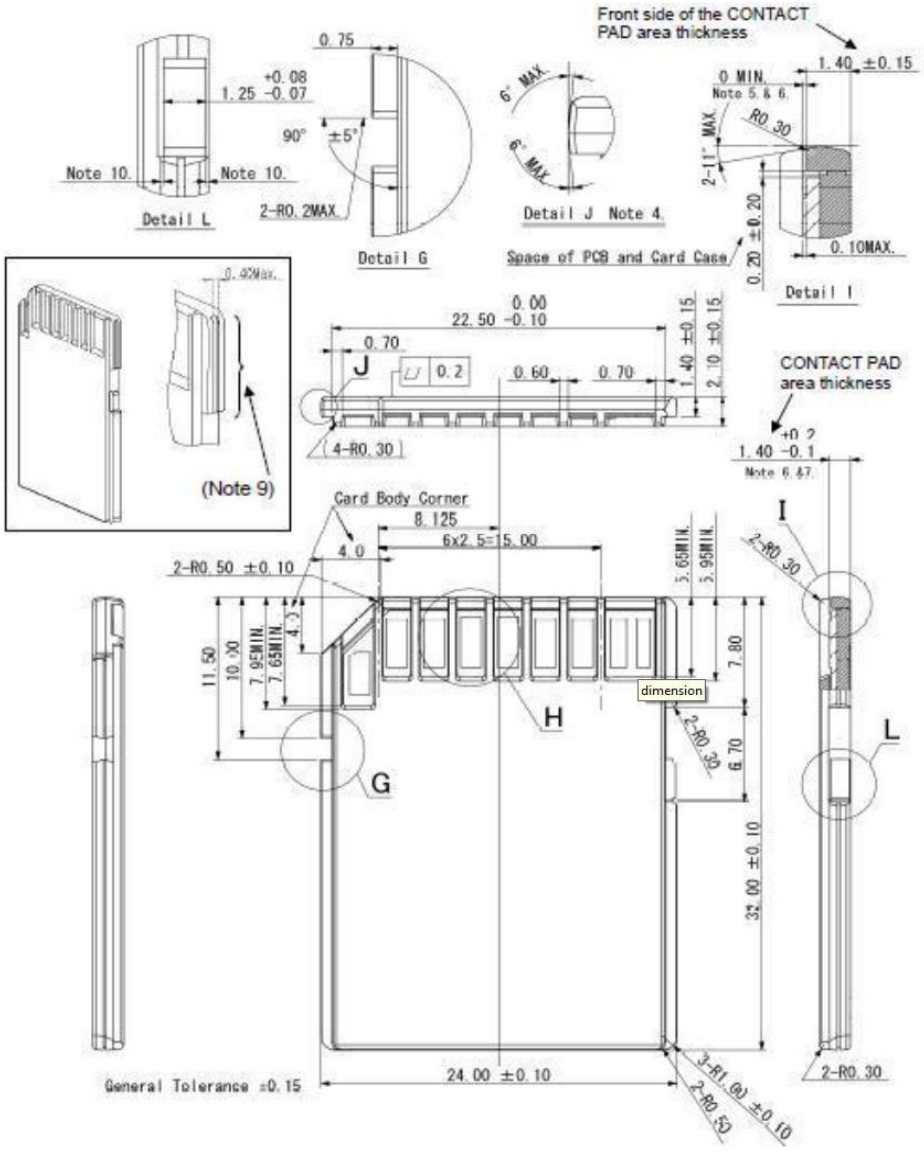
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Specifications

Model Name	CH120-SD
Interface	SD6.1
Connector	-
Form Factor	SD
Operation Mode	SD / SPI
Transfer Mode	UHS-I
NAND Flash Type	3D TLC
Capacity	16GB~32GB
External DRAM	No
Sustained Read Performance (MB/sec.)	Up to 95
Sustained Write Performance (MB/sec.)	Up to 85
ECC Engine	Built-in Advanced ECC Algorithm
IOPS (4K Random Write)	1000
Standard Operating Temperature (°C)	-25 ~ 85
Extended Operating Temperature (°C)	-40 ~ 85
Storage Temperature (°C)	-40 ~ 85
H/W Write Protect	Mechanical Write Protect Switch
Shock	1,500G, 0.5ms
Vibration	20Hz~80Hz/1.52mm (frequency/displacement) 80Hz~2,000Hz/20G (frequency/displacement)
Operating Voltage	2.7V ~ 3.6V
Power Consumption	Operating (Max.): 90 mA Standby: 185 µA
Dimension (L x W x H)	32 x 24 x 2.10 (mm)
MTBF (Hours)	>3,000,000

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Mechanical Specifications



Unit: mm

For more information, contact your Apacer representative

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