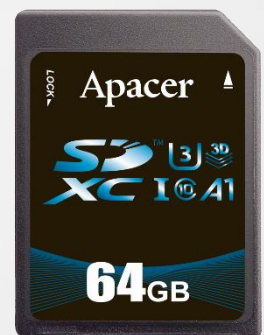# Apacer

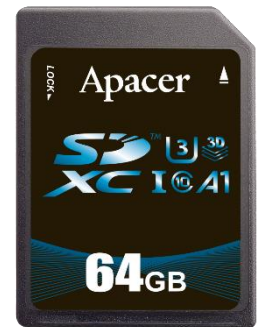The Most **Reliable**
Storage For Industries

CH110-SD

CH110-SD

Overview

Apacer SD CH110-SD is compatible with the SD card version 6.1. The command list supports [Physical Layer Specification Ver6.10 Final] definitions. Card Capacity of Non-secure Area, Secure Area Supports [Part 3 Security Specification Ver4.00 Final] Specifications.

The SD 6.1 card comes with 9-pin interface designed to operate at a maximum operating frequency of 208MHz. It can alternate communication protocol between the SD mode and SPI mode. It performs data error detection and correction with very low power consumption. It supports capacity up to 64GB with exFAT SDXC.

Apacer SD CH110-SD Secure Digital 5.0 card with high performance, good reliability and wide compatibility is nowadays one of the most popular cards well adapted for hand-held applications with customized firmware techniques in semi-industrial/medical markets already.

* 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.
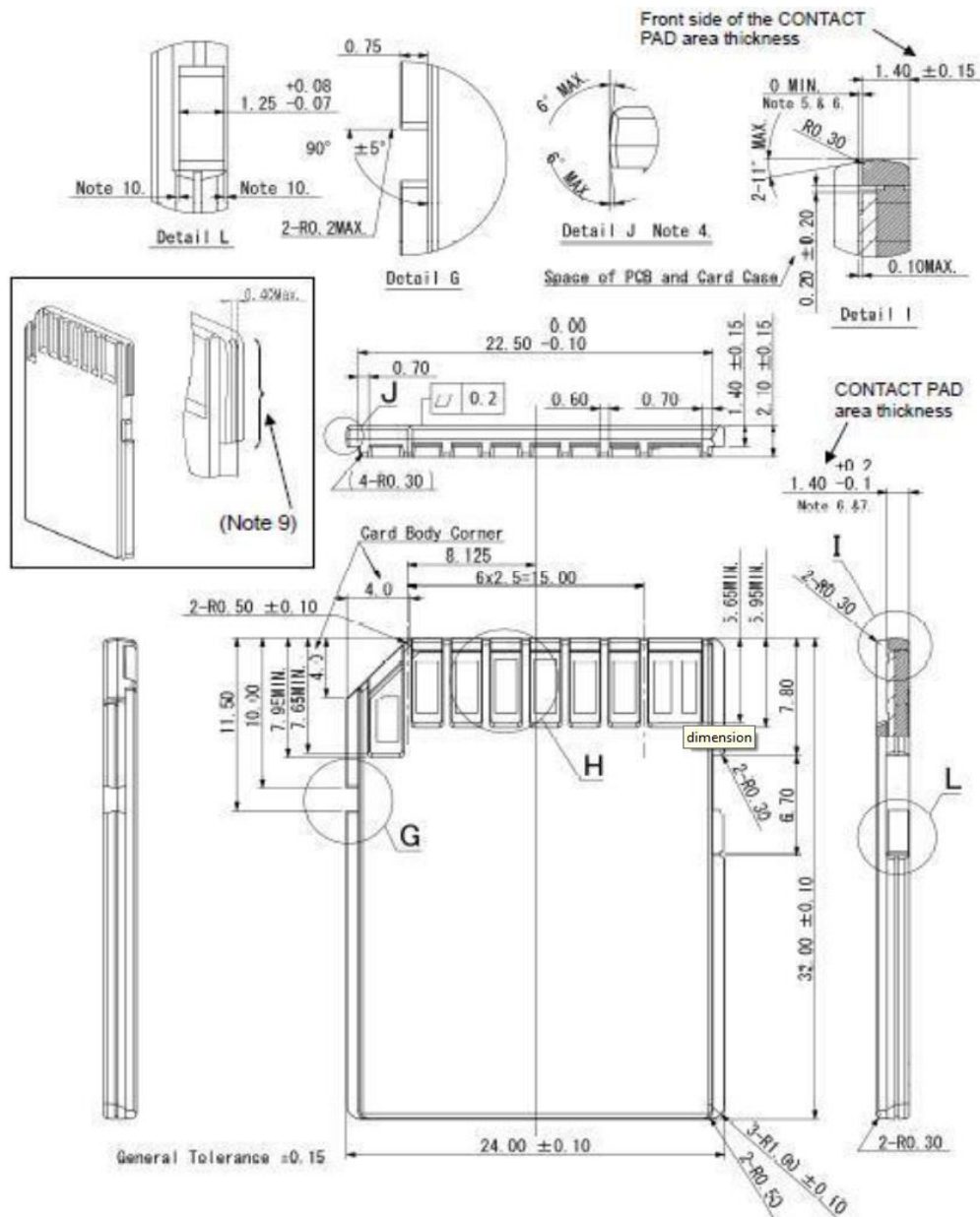
CH110-SD

Feature

- Compliant with SD 4.0 Specification

- Supports Class 10 with U3 and UHS-I**

- S.M.A.R.T support

- Wear-Leveling and Block Management

- Low Power Consumption

- Wide Temperature Support (Optional)

- DataRAID™

- SMART Read Refresh ™

Specifications

Model	CH110-SD
Interface	SD4.0
Connector	–
Form Factor	SDHC/SDXC
NAND Flash Type	3D TLC
Capacity	SDHC: 8GB~64GB
Sustained Read Performance (MB/sec)	Up to 95
Sustained Write Performance (MB/sec)	Up to 80
ECC Engine	Built-in advanced ECC algorithm
IOPS (4K Random Write)	600
Standard Operating Temperature (℃)	-25 ~ + 85
Extended Operating Temperature (℃)	-40 ~ + 85
Storage Temperature (℃)	-40 ~ + 85
Housing	Yes
H/W Write Protect	Yes
Shock	(Operating) 1,500G, 0.5ms
Vibration	20Hz~80Hz/1.52mm (frequency/displacement) 80Hz~2,000Hz/20G (frequency/accelerate)
Operating Voltage	2.7V ~ 3.6V
Power Consumption	Active mode: 80 mA & Idle mode: 135 uA
Dimension (L x W x H)	32 x 24 x 2.1 mm
MTBF (hours)	>3,000,000

Mechanical Specification

Detail L

Detail G

Detail J Note 4.

Space of PCB and Card Case

Detail I

Front side of the CONTACT PAD area thickness

CONTACT PAD area thickness

(Note 9)

Card Body Corner

General Tolerance ±0.15

Unit: mm

For more information,
contact your Apacer representative

Global Presence