

# Apacer



The Most **Reliable**  
Storage For Industries



Industrial SD card



## Industrial SD card ISD

### Overview

The Apacer industrial SD features with high reliability and resistance to extended temperatures be widely applied to industrial, military, communication, surveillance, medical devices and car navigation, thereby satisfying the storage need of demanding industrial enterprises.



The series of SD-M adopts vendor guaranteed wide-temp MLC chips for the highest reliability, while the firmware and controller can be tailored to customer's specifications and verification, which reduces the risk of compatibility. To ensure that data stay correct, the industrial SD card supports 24-bit ECC function, which minimizes potential errors led by frequent data access to strengthen the system reliability. Also complete with integrated Global Wear leveling and S.M.A.R.T technology, the SD card features a prolonged lifespan as well as safer data storage.

### Feature

- Industrial Grade SD card
- S.M.A.R.T supported
- Wear-Leveling and Block Management
- Auto Standby and Sleep Mode Support
- Golden finger 30u"

## Specifications

<b>Model</b>	Industrial SD-M
<b>Interface</b>	SD2.0
<b>NAND Flash Type</b>	MLC
<b>Capacity</b>	SDHC:4GB~32GB
<b>Sustained Read Performance (MB/sec)</b>	Up to 19
<b>Sustained Write Performance (MB/sec)</b>	Up to 8
<b>ECC Engine*</b>	Built-in 24-bit per 1K bytes BCH ECC
<b>Standard Operating Temperature ( °C )</b>	0 ~ + 70
<b>Extended Operating Temperature ( °C )</b>	-40 ~ + 85
<b>Storage Temperature ( °C )</b>	-40 ~ + 100
<b>Shock</b>	1,000G, 0.5ms
<b>Vibration</b>	10Hz~50Hz/3mm (frequency/displacement) 50Hz~2,000Hz/15G (frequency/accelerate)
<b>Humidity</b>	95%
<b>Operating Voltage</b>	3.3 V ± 5%
<b>Low Power Consumption</b>	Active mode: 55 mA & Idle mode: 105 mA
<b>Dimension (L x W x H )</b>	24x32x2.1 (mm)
<b>MTBF (hours)</b>	>1,000,000
<b>Features / Technology</b>	S.M.A.R.T./Wide Temp.
<b>Applications</b>	Military/Cloud Computing/In-Vehicle/Gaming/HealthCare/Embedded System

## Ordering Info

Model	Standard temp: 0~70	Extended temp:-40~85
4G	AP-ISD04GCS4A-2CM	AP-ISD04GIS4B-2CM
8G	AP-ISD08GCS4A-2CM	AP-ISD08GIS4B-2CM
16G	AP-ISD16GCS4A-2CM	AP-ISD16GIS4B-2CM
32G	AP-ISD32GCD4A-2CM	AP-ISD32GID4B-2CM

## Global Presence

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

Europe  
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

India  
Apacer Technologies Pvt. Ltd.  
Tel: +91-80-41529061~3  
Fax: +91-80-41700215