

Apacer



The Most **Reliable**  
Storage For Industries



Industrial microSD card

## Industrial MicroSD(HC) card Industrial MicroSD (SLC)

### Overview

Apacer's industrial-grade MicroSD memory card is compliant with SD 2.0 Specification. Available in 256MB to 4GB, with sequential read/write speed reaching up to 20/16 MB/sec, it fulfills requirements for flexible-capacity and high-speed data storage. With a superbly reliable SLC (single-level cell) flash memory, it can operate normally in harsh temperature environments ranging from -40°C - +85°C. Apacer stresses "stability" has always been the primary concern for industrial devices. The greatest difference between this industrial-grade MicroSD memory card and other consumer memory cards on the market lies in its firmware version and major components that can be fixed. Apacer's clients can benefit from the stable, long term supply. Besides, for clients who need long-term and stable supply chains, stock-out risk may be avoided, with compatibility issues caused by frequent product component changes significantly reduced. Time and money spent on product verification can also be saved.



### Feature

- Compliant with SD 2.0 Specification
- S.M.A.R.T supported
- Wear-Leveling and Block Management
- Support SD mode and SPI mode
- Low Power Consumption
- Wide Temperature Support

## Specifications

<b>Model</b>	Industrial microSD
<b>Interface</b>	SD2.0
<b>NAND Flash Type</b>	SLC
<b>Capacity</b>	SD:256MB~2GB;SDHC:4GB
<b>Sustained Read Performance (MB/sec)</b>	Up to 20
<b>Sustained Write Performance (MB/sec)</b>	Up to 16
<b>ECC Engine*</b>	Built-in 24-bit per 1K bytes BCH ECC
<b>Extended Operating Temperature ( °C )</b>	-40 ~ + 85
<b>Storage Temperature ( °C )</b>	-40 ~ + 85
<b>Shock</b>	1,500G, 0.5ms
<b>Vibration</b>	20Hz~80Hz/1.52mm (frequency/displacement) 80Hz~2,000Hz/20G (frequency/accelerate)
<b>Humidity</b>	95%
<b>Operating Voltage</b>	3.3 V ± 5%
<b>Low Power Consumption</b>	AcActive mode: 50 mA & Idle mode: 100 uA
<b>Dimension (L x W x H )</b>	15x11x1 (mm)
<b>MTBF (hours)</b>	>2,000,000
<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	Extended temp: -40~85
256MB	AP-MSD256ISI-1T
512MB	AP-MSD512IDI-1T
1G	AP-MSD01GISI-T
2G	AP-MSD02GIDI-T
4G	AP-MSD04GIHI-T

## Global Presence

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