

Apacer

The Most **Reliable**  
Storage For Industries



Industrial microSD



## Industrial microSD

### 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
- Support SD mode and SPI mode
- Global Wear-Leveling and Block Management
- Low Power Consumption

## Specifications

<b>Model</b>	Industrial microSD
<b>Interface</b>	SD2.0
<b>Form Factor</b>	microSD
<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 ~ + 100
<b>Shock</b>	1,500G, 0.5ms
<b>Vibration</b>	20Hz~80Hz/1.52mm (frequency/displacement) 80Hz~2,000Hz/20G (frequency/accelerate)
<b>Operating Voltage</b>	2.7V ~ 3.6V
<b>Power Consumption</b>	Active mode: 50 mA & Idle mode: 100 uA
<b>Dimension (L x W x H )</b>	15x11x1 (mm)
<b>MTBF (hours)</b>	>2,000,000

For more information, contact your Apacer representative

### 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