Apacer
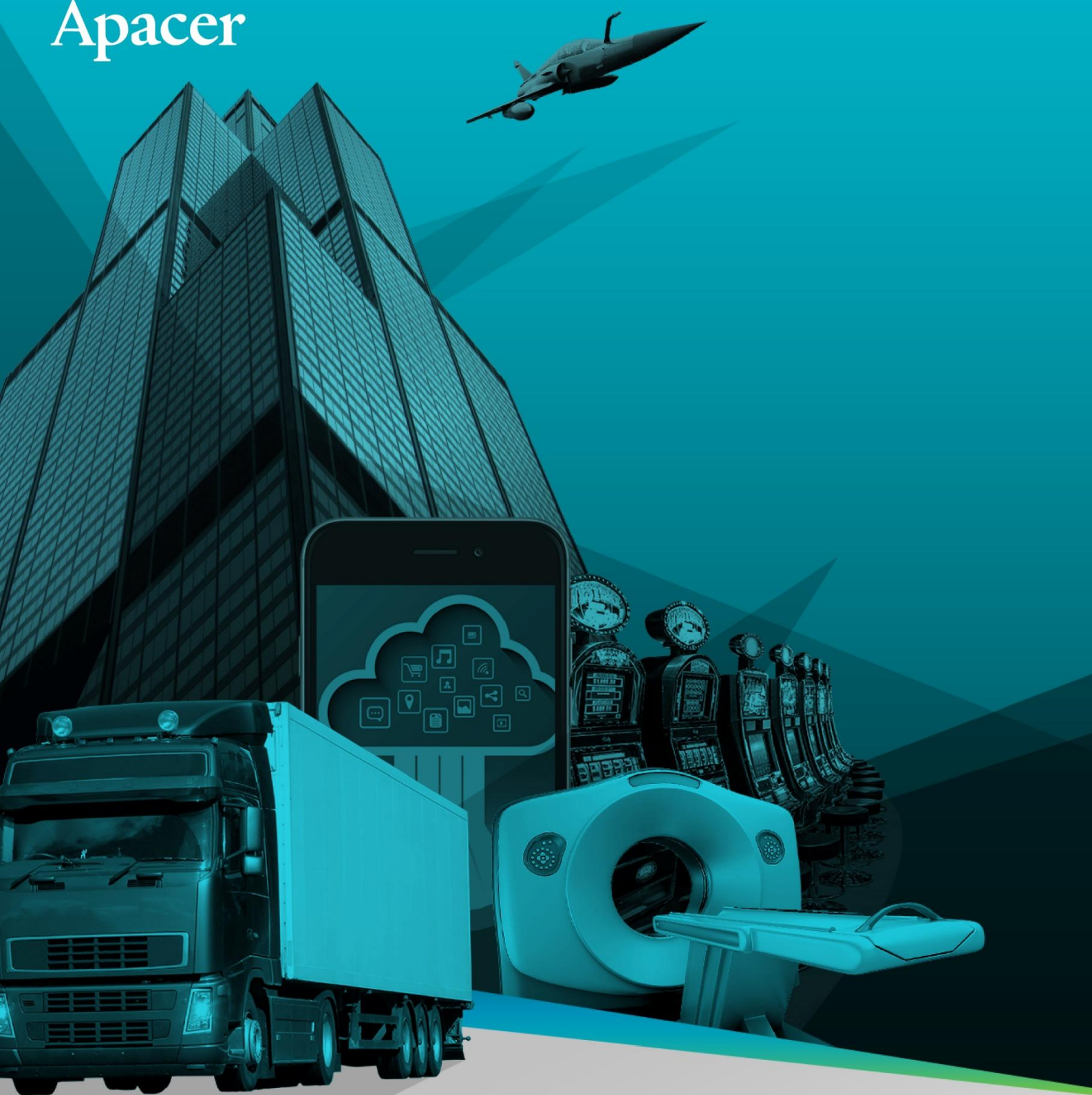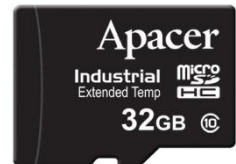
The Most **Reliable**
Storage For Industries

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

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

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

Japan
Apacer Technology Corp.
Tel: +81-3-5419-2668
Fax: +81-3-5419-0018

Europe
Apacer Technology B.V.
Tel: +31-40-267-0000
Fax: +31-40-290-0686

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

U.S.A.
Apacer Memory America, Inc.
Tel: +1-408-518-8699
Fax: 1-510-249-9568

China
Apacer Electronic(Shanghai) Co., Ltd.
Tel: +86-21-6228-9939

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Apacer](#):

[AP-MSD04GIHI-T](#) [AP-MSD01GISI-T](#) [AP-MSD02GIDI-T](#) [AP-MSD256ISI-1T](#) [AP-MSD512IDI-1T](#)