

# Apacer

The Most **Reliable**  
Storage For Industries



Industrial microSD card



## Industrial MicroSD(HC) card

### Industrial MicroSD H1-M

#### Overview

Apacer Industrial microSD H1-M series conforming to SD3.0 specification are designed with high performance, good reliability and wide compatibility, through UHS-I, supporting speed class up to U3. The new microSD 3.0 card is capable of delivering better performance and P/E cycles by the latest firmware architecture including a powerful built-in Error Correction, Read Retry, Wear Leveling & Bad Block Management algorithms.



#### Feature

- Compliant with SD 3.0 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 microSDHC                                                                 |
| Interface                             | SD3.0                                                                                |
| NAND Flash Type                       | MLC                                                                                  |
| Capacity                              | 4G~64G                                                                               |
| Sustained Read Performance (MB/sec)   | Up to 44                                                                             |
| Sustained Write Performance (MB/sec)  | Up to 36                                                                             |
| ECC Engine*                           | Built-in 42-bit per 1K bytes BCH ECC                                                 |
| Standard Operating Temperature ( °C ) | -25 ~ + 85                                                                           |
| Extended Operating Temperature ( °C ) | -40 ~ + 85                                                                           |
| Storage Temperature ( °C )            | -40 ~ + 85                                                                           |
| Shock                                 | 1,500G, 0.5ms                                                                        |
| Vibration                             | 20Hz~80Hz/1.52mm (frequency/displacement)<br>80Hz~2,000Hz/20G (frequency/accelerate) |
| Humidity                              | 95%                                                                                  |
| Operating Voltage                     | 3.3 V $\pm$ 5%                                                                       |
| Low Power Consumption                 | Active mode: 135 mA & Idle mode: 250 uA                                              |
| Dimension (L x W x H )                | 15x11x1 (mm)                                                                         |
| MTBF (hours)                          | >3,000,000                                                                           |
| Features / Technology                 | S.M.A.R.T./Wide Temp.                                                                |
| Applications                          | Military/Cloud Computing/In-Vehicle/Gaming/HealthCare/Embedded System                |

## Ordering Info

| Model | Standard temp:<br>-25~85 | Extended temp:<br>-40~85 |
|-------|--------------------------|--------------------------|
| 4G    | AP-MSD04GCA-1GTM         | AP-MSD04GIA-1GTM         |
| 8G    | AP-MSD08GCA-1GTM         | AP-MSD08GIA-1GTM         |
| 16G   | AP-MSD16GCA-1GTM         | AP-MSD16GIA-1GTM         |
| 32G   | AP-MSD32GCA-1GTM         | AP-MSD32GIA-1GTM         |
| 64G   | AP-MSD64GCA-1FTM         | AP-MSD64GIA-1FTM         |

## Global Presence

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Authorized Distributor

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