



# RD130m | SD 3.01 | microSD Card

SMART's RD130m microSD Cards are fully SD compliant. Offered in commercial and industrial temperature versions based on 32nm and 24nm SLC Flash technologies, the RD130m microSD Cards are specifically designed to meet strict industrial operating and environmental requirements.

SMART's RD130m microSD Cards comply with SD v3.01 Standard with performance up to 68MB/s read and 50MB/s write. Incorporating onboard error detection and correction algorithms, and static and dynamic wear-leveling techniques, SMART's microSD Memory Cards ensure years of reliable operation over a product's life.



## Features & Benefits

- Capacities:
  - 4GB (SDHC)
  - 1GB, 2GB (SDSC)
- SLC NAND Flash
- Low Power Dissipation
- Onboard Wear-Leveling
- RoHS Compliant

## Applications

- Embedded Computing
- Industrial Meters and Industrial Control
- Medical Equipment
- Networking
- Telecom and Communications

## Product Family Overview

| Form Factor                 | Capacity | Sequential Performance                  |
|-----------------------------|----------|---|
| SD 3.01 microSD Card (SDHC) | 4GB      | Up to 68MB/s Read<br>Up to 50MB/s Write |
| SD 3.01 microSD Card (SDSC) | 1GB, 2GB | Up to 23MB/s Read<br>Up to 22MB/s Write |

## Specifications

| RD130m   SD 3.01   microSD Card |  |
|---------------------------------|--|
| NAND Type                       | SLC  |
| <b>Performance</b>              |  |
| Sequential Read (maximum)       | Up to 68MB/s (4GB)<br>Up to 23MB/s (1GB, 2GB)          |
| Sequential Write (maximum)      | Up to 50MB/s (4GB)<br>Up to 22MB/s (1GB, 2GB)          |
| <b>Capacity</b>                 |  |
| Capacity                        | 1GB to 4GB   |
| <b>Power</b>                    |  |
| Vcc                             | 2.7 - 3.6 V  |
| <b>Environmental</b>            |  |
| Operating Temperature           | Extended: -25°C to +85°C<br>Industrial: -40°C to +85°C |
| Storage Temperature             | -40°C to +85°C   |
| Humidity                        | 25% to 95%   |
| <b>Physical</b>                 |  |
| Length                          | 15 mm  |
| Width                           | 11 mm  |
| Height                          | 0.7/1.0 mm   |

## Ordering Information

| Part Number  | Density |
|--|---------|
| <b>RD130m   SD 3.01   microSD Card</b>                   |         |
| <b>Extended Operating Temperature (-25°C to +85°C)</b>   |         |
| SS9UD004GPHE8SE32  | 4GB     |
| SS9UD002GPHE8SE32  | 2GB     |
| SS9UD001GPHE8SE32  | 1GB     |
| <b>RD130m   SD 3.01   microSD Card</b>                   |         |
| <b>Industrial Operating Temperature (-40°C to +85°C)</b> |         |
| SS9UD004GPHE8SI32  | 4GB     |
| SS9UD002GPHE8SI32  | 2GB     |
| SS9UD001GPHE8SI32  | 1GB     |



For more information, please visit: [www.smartm.com](http://www.smartm.com)

*\*Product images are for promotional purposes only. Labels may not be representative of the actual product.*

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