



## 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 Up to 50MB/s Write
SD 3.01 microSD Card (SDSC)	1GB, 2GB	Up to 23MB/s Read Up to 22MB/s Write

## Specifications

RD130m   SD 3.01   microSD Card	
NAND Type	SLC
<b>Performance</b>	
Sequential Read (maximum)	SD 3.01
Sequential Read (maximum)	Up to 68MB/s (4GB) Up to 23MB/s (1GB, 2GB)
Sequential Write (maximum)	Up to 50MB/s (4GB) Up to 22MB/s (1GB, 2GB)
<b>Reliability</b>	
MTBF	> 3,000,000
Endurance (Sequential Workload) <sup>1</sup>	4GB: 234TBW 2GB: 117TBW 1GB: 58TBW
<b>Power</b>	
Vcc	2.7 - 3.6 V
<b>Environmental</b>	
Operating Temperature	Extended: -25°C to +85°C 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

<sup>1</sup>Endurance is directly related to 128k sequential write workload

## Ordering Information

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