



## RD230m | SD 6.1 | microSD Card

SMART's high-capacity, RD230m microSD Memory Cards are fully UHS-I compliant. The RD230m microSD Cards are offered in industrial temperature. They are specifically designed to meet strict industrial operating and environmental requirements as in IIoT, medical, automotive and military applications.

Incorporating onboard error detection and correction algorithms and static and dynamic wear-leveling techniques, SMART's RD230m microSD Cards ensure years of reliable operation over a product's life.



### Features & Benefits

- SD UHS-I Compliant
- Support I-Temp (-40°C to +85°C)
- Static and Dynamic Wear-Leveling
- Copyright Protection Mechanism
- Supports CPRM (Content Protection for Recordable Media)
- Built-in Write Protection
- RoHS Compliant and Low Halogen

### Applications

- Automotive
- IIoT
- Medical
- Military

### Product Family Overview

Form Factor	Capacity	Sequential Performance
SD 6.1 microSD Card	32GB	Up to 95MB/s Read Up to 15MB/s Write

## Specifications

RD230m   SD 6.1   microSD Card	
NAND Type	TLC
<b>Performance</b>	
Host Interface Rate (maximum)	SD 6.1 (SDR 104)
Capacities	32GB
Sequential Read (maximum)	Up to 95MB/s
Sequential Write (maximum)	Up to 15MB/s
<b>Reliability</b>	
MTBF	> 3,000,000 hours
Data Reliability	< 1 Non-Recoverable Error in 10 <sup>17</sup> bits read
Data Retention	10 years >90% life remaining 1 year at the end of life
Endurance (Sequential Workload) <sup>1</sup>	32GB: 87 TBW
<b>Environmental</b>	
Shock	Plus with Half-Sine, 1500G/2ms. 6 faces, 5 times/face
Vibration	Displacement: 20-80Hz/1.52mm. Acceleration: 80-2000HZ/20G. 30mins/axis.
Storage Temperature	Industrial: -40°C to +85°C
Storage Temperature	-40°C to +85°C
Humidity	55°C/93%RH@500hrs
<b>Physical</b>	
Length	15.0mm
Width	11.0mm
Thickness	1.0mm

<sup>1</sup>Endurance is directly related to the User Specific Workload.

## Ordering Information

Part Number	Density
RD230m   SD 6.1   microSD Card Industrial Operating Temperature (-40°C to +85°C)	
SV9UD032GPHJETIE1	32GB



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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