



## RD230 | SD 6.1 | SD Card

SMART's high-capacity, RD230 SD Cards are fully SD UHS-I compliant. The RD230 SD Cards are offered in industrial temperature. They are specifically designed to meet strict environmental requirements as in networking, industrial, gaming and automotive applications.

Incorporating onboard error detection and correction algorithms and static and dynamic wear-leveling techniques, SMART's RD230 SD 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
- Gaming
- Industrial
- Networking

### Product Family Overview

Form Factor	Capacity	Sequential Performance
SD 6.1	128GB	Up to 95MB/s Read Up to 55MB/s Write

## Specifications

RD230   SD 6.1   SD Card	
NAND Type	TLC
<b>Performance</b>	
Host Interface Rate (maximum)	SD 6.1 (SDR 104)
Capacities	128GB
Sequential Read (maximum)	Up to 95MB/s
Sequential Write (maximum)	Up to 55MB/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>	128GB: 350 TBW
<b>Environmental</b>	
Shock	Plus with Half-Sine, 500G/2ms. 6 faces, 5 times/face
Vibration	Displacement: 20-80Hz/1.52mm. Acceleration: 80-2000HZ/20G. 30mins/axis.
Operating Temperature	Industrial: -40°C to +85°C
Storage Temperature	-40°C to +85°C
Humidity	55°C/95%RH@500hrs
<b>Physical</b>	
Length	32.0mm
Width	24.0mm
Thickness	2.1mm

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

## Ordering Information

Part Number	Density
RD230   SD 6.1   SD Card Industrial Operating Temperature (-40°C to +85°C)	
SV9SD128GPHJETIE1	128GB



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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