



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 |
| Performance | |
| 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 |
| Reliability | |
| MTBF | > 3,000,000 hours |
| Data Reliability | < 1 Non-Recoverable Error in 10 ¹⁷ bits read |
| Data Retention | 10 years >90% life remaining 1 year at the end of life |
| Endurance (Sequential Workload) ¹ | 32GB: 87 TBW |
| Environmental | |
| 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 |
| Physical | |
| Length | 15.0mm |
| Width | 11.0mm |
| Thickness | 1.0mm |

¹Endurance 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

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

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