



DuraFlash™

RD130m | microSD Memory Card

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

SMART's RD130m SLC microSD Memory Cards comply with SD v3.01 SDSC, SDHC and SDXC 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

Product Family Overview

| Capacity | Sequential Performance |
|-----------------------------------|---------------------------------------|
| RD130m microSD Memory Card | |
| 4GB (SDHC) | Up to 68MB/s Read; Up to 50MB/s Write |
| 1GB, 2GB (SDSC) | Up to 23MB/s Read; Up to 22MB/s Write |

Applications

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

Specifications

| RD130m microSD Memory Card | |
|----------------------------|--|
| NAND Type | SLC |
| Performance | |
| 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) |
| Capacity | |
| Capacity | 1GB to 4GB |
| Power | |
| Vcc | 2.7 - 3.6 V |
| Environmental | |
| 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% |
| Physical | |
| Length | 15 mm |
| Width | 11 mm |
| Height | 0.7/1.0 mm |

Ordering Information

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



For more information, please visit: www.smartm.com

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