

swissbit®

Product Fact Sheet

Industrial
SD Memory Card

S-200 Series
SPI, SD compliant



S-200 Series Industrial SD Memory Card

1 Feature

- Custom-designed, highly-integrated memory controller
 - Fully compliant with SD Memory Card specification 2.0
 - Four integrated 4KByte Sector Buffers for fast data transfer
 - SPI Mode support
- Standard SD Memory Card form factor
 - 32.0mm x 24.0mm x 2.1mm
 - Write Protect slider
- 2.7...3.6V normal operating voltage
- 2.0...3.6V basic communication (CMD0, 15, 55 ACMD41) voltage
- Low-power CMOS technology
- Wear Leveling: equal wear leveling of static and dynamic data
The wear leveling assures that dynamic data as well as static data is balanced evenly across the memory. With that the maximum write endurance of the device is guaranteed.
- Patented power-off reliability
 - No data loss of older sectors
 - Max. 16 sectors data loss (old data kept) if power off during writing
- High reliability
 - Best available SLC NAND Flash technology
 - Designed for embedded market
 - MTBF: > 3,000,000 hours
 - Number of insertions: >10,000
 - Extended Temperature range -25° up to 85°C
 - Optional industrial Temperature range available -40° up to 85°C
- Hot swappable
- High performance
 - SD burst up to 25MB/s
 - SD Low speed 0...25MHz clock rate
 - SD High speed 25...50MHz clock rate
 - Flash burst up to 40MB/s
- Available densities
 - up to 2GBytes (higher densities are in the SDHC S-220 Series available up to 8GB)
- Controlled BOM
- Life Time Monitoring SD/SPI with standard or vendor commands

