

Swissbit

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Industrial Grade Secure Digital Flash Cards

Swissbit's Industrial Grade Secure Digital cards are specifically designed, manufactured and tested to withstand extreme environmental conditions. The usage of Single Level Cell (SLC) Flash combined with a 32-bit RISC controller provides a number of enhanced product features such as built-in error correction, bad block management, wear leveling algorithms, power loss protection and power saving modes.

Critical component control, overall electrical and mechanical robustness as well as extensive product qualification procedures guarantee the highest product quality and reliability.

Additionally, Swissbit offers Diagnostic Tools to read out wear level classes and bad block counts, which helps customers determine the remaining lifetime of the product in the field or during qualification.

swissbit®



FEATURES

- › Fully compliant to SD Specification 1.01, 1.10 and 2.0 (SDHC)
- › 256MB to 16GB Single Level Cell (SLC) NAND Flash based
- › Available in industrial and extended temperature grades
- › Controlled BOM
- › Enhanced ESD protection up to 15kV
- › Features intelligent static and dynamic wear leveling
- › Error Correction Code (ECC) capable of correcting 4 symbols in 512Byte sector with additional Cyclic Redundancy Check (CRC)
- › Exceptional power loss protection
- › Dual voltage support: 1.8V (1.65V to 1.95V) and 3.3V (2.0V to 3.6V)
- › Most power efficient design with power saving features