



**THE DATASHEET OF
SFSD032GL3BM1TO-E-LF-2B1-STD**



swissbit®

Product Fact Sheet

Industrial SDHC / SDXC Memory Card

S-45 Series
UHS-I Interface, MLC

Extended and Industrial
Temperature Grade

Date: April 10, 2019
Revision: 1.22

durabit™
“the better MLC”



Product Summary

- **Capacities:** 4 GBytes, 8 GBytes, 16 GBytes, 32 GBytes, 64 GBytes, 128 GBytes
- **Form Factor:** Standard SD Memory Card 32.0mm x 24.0mm x 2.1mm and Write Protect slider
- **Compliance:** Fully compliant with SD Memory Card specification 3.0
 - Fully compatible with UHS-I/SDR104 hosts
 - Up to speed class 10 and U1 according SD3.0 specification
 - SD2.0 SDHC backward compliant, default speed and high speed mode
 - FAT32 / exFAT preformatted
- **Performance:** High performance 3.0 specification
 - SD Default speed, SD High speed, SD UHS-I
 - Read Performance: Sequential Read up to 43 MBytes/s, Random Read IOPS up to 1,189
 - Write Performance: Sequential Write up to 21 MBytes/s, Random Write IOPS up to 944
- **Operating Temperature Range¹:**
 - Extended: -25 °C to 85 °C
 - Industrial: -40 °C to 85 °C
- **Storage Temperature Range:**
 - Extended: -25 °C to 100 °C
 - Industrial: -40 °C to 100 °C
- **Operating Voltage:** 2.7 ... 3.6V (Low-power CMOS technology)
- **Data Retention:** 10 Years @ Life Begin / 1 Year @ Life End
- **Humidity:** 85% RH @85°C 1000h
- **Electromagnetic Compatibility Test:** Radiated Emission; Radiated Immunity; Electrostatic Discharge

Product Features

- Optimized FW algorithms especially for random write speed, WAF reduction, high read access and long data retention applications
 - Patented power-off reliability technology, Wear Leveling technology
 - Write Endurance technology, Read Disturb Management
 - Data Care Management, Near miss ECC technology
 - Diagnostic features with Life Time Monitoring tool support
- High reliability
 - Designed for industrial market especially read intensive application like navigation, infotainment, POS/POI, Medical and general boot medium use case
 - The product is optimized for long life cycle and provides excellent data retention in high temperature mission profiles.
 - Number of card insertions/removals 20,000
 - SIP (System In Package) process for extreme dust, water and ESD proof
 - Selected AEC-Q100 qualification
- Manufactured in a TS 16949 certified factory
- Customized options like CID registers, CPRM keys, firmware incl. settings and marking by projects
- In-field firmware update
- AES256 Encryption (on request)
- Swissbit Life Time Monitoring (SBLTM) Tool and SDK for SBLTM (on request)



Why Swissbit?

Swissbit strives to create innovative technologies for future market opportunities utilizing a highly skilled in-house product research and development team. Swissbit maintains a marketing edge by continuing to manufacture world-class high quality memory products and providing customers with both high value and low cost of ownership achieved through efficient processes and procedures.

¹ High temperature storage without operation reduces the data retention, in operation the data will be refreshed, if data error issues were detected.

Looking for pricing, stock, or lifecycle information?

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