# swissbit®

**Product Fact Sheet** 

**Industrial MultiMedia Card** 

M-120 Series SLC

Extended and Industrial Temperature Grade

Date: Apri Revision: 1.01 April 05, 2023





## **Product Summary**

• Capacities: 128 MBytes

• Form Factor: Standard MMC 32.0mm x 24.0mm x 1.4mm

• Operating Voltage: 2.7...3.6V (Low-power CMOS technology)

• Compliance: Fully compliant with MMC Card specification 3.31.

Performance:

o 1 bit MMC or SPI data transfer

MMC and SPI burst up to 20Mbit/s (2.5MB/s)

• Operating Temperature Range:

Extended: -25 °C to 85 °CIndustrial: -40 °C to 85 °C

• Data Retention: 10 year (JEDEC)

### **Product Features**

Custom-designed, highly-integrated memory controller

o Four integrated 4KByte Sector Buffers for fast data transfer

Patented power-off reliability

No data loss of older sectors

Max. 16 sectors data loss (old data kept)

o All data were written to the flash, if the card is ready after the last write command

Wear Leveling technology

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.

Write Endurance

 Due to intelligent wear leveling an even use of the entire flash is guaranteed, regardless how much "static" (0S) data is stored.

High reliability

Designed for embedded market

MTBF > 4,000,000 hours

Number of card insertions/removals: >10,000

Extended Temperature range -25° up to 85°C

o Industrial Temperature range available -40° up to 85°C (optional)

Hot swappable

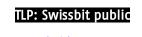
• Life Time Monitoring over special vendor command set

Controlled BOM & PCN process

• Life Cycle Management

#### Why Swissbit?

Swissbit is focused on the design, development, manufacture, and support of leading edge memory and storage solutions for the worldwide OEM/ODM marketplace. As a global supplier, Swissbit recognizes and addresses the higher level of application requirements of today's industrial, Netcom, and automotive customers by providing best-in-class products and services, with uncompromised attention to driving overall value and quality.



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