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PRESS RELEASE

High Reliability SD memory card series for industrial applications

Robust and reliable 3D NAND SD memory card aimed at demanding applications

Westford, MA USA. August 18, 2020 – Swissbit has extended its renowned range of industrial SD memory cards with purposeful new products: the S-50 and S-56 series. Based on industrial grade 3D NAND technology, the new products integrate flash chips with a powerful controller and high-end firmware, which is aimed at delivering the highest reliability within a robust housing. They are manufactured in Swissbit's own IATF 16949 certified fab.

Reliable across the complete temperature range

The new S-5x range comprises the S-50 SD and S-50u micro SD memory cards at a very competitive price point, alongside the high-endurance S-56 & S-56u versions which use 3D pSLC mode to achieve a tenfold increase in endurance. All support a full temperature range from -40°C to 85°C.

"The new Swissbit S-5x cards have been optimized to tolerate dynamically changing temperatures between write and read cycles (cross temperature) across the entire range. That's precisely where Swissbit adds value when it comes to extended service intervals and reduced total costs of ownership. It gives our customers a clear competitive edge over other vendors", says Roger Griesemer, General Manager of the Memory Solutions division at Swissbit.

Highest quality thanks to modern technology

Other reliability features include 120b LDPC error correction (Low Density Parity Check Error Correcting Code), a full-page-fail protection mechanism, read disturb management, background data refresh, sudden power loss recovery, sophisticated static and dynamic wear leveling and – for mechanical protection – a molded SIP package with a 30μ" thick gold connector.

All these features combine to form a highly reliable device with the lowest DPPM rates in the market – a position already proven by existing industrial SD memory cards from Swissbit.

The firmware architecture supports fast write bursts and, in combination with the other FW features, makes this series ideal for high read / write traffic that typically occurs in data logging, IPCs, HMI units, POS/POI, medical and surveillance applications.

Capacity ranges and compliance

The S-50 SD memory card is initially available in capacities from 16GB to 256GB, while the S-50u range extends from 16GB to 128GB.

Where high endurance is required due to intense small block data logging or high traffic, then the S-56 & S-56u will deliver with its pSLC technology. The density range for these new cards is from 4GB to 64GB for the S-56, with 4GB to 32GB for the S-56u model.

Swissbit plans to add higher capacities for all variants later.

All memory cards across the new range are compliant to the SD 6.1 specification and fully support SPI mode. They reach up to UHS U3, speed class 10, and the A2 and VSC30 application classes.

The S-5x products are supported by the Swissbit Life Time Monitor that provides detailed usage information, allowing easy prediction of the expected lifetime under real world applications.

Available images

The following images are available for download in printable format at:
http://www.htcm.de/kk/swissbit

Image Source: Swissbit	Image Source: Swissbit
Truly industrial, the S-50 SD memory card	**Truly industrial, the S-50u micro SD memory card**

About Swissbit

Swissbit AG is the only independent European manufacturer of storage and embedded IoT solutions for demanding applications. Swissbit combines its unique competences in storage and embedded IoT technology with its advanced packaging know how. This expertise allows our customers to reliably store and protect data in industrial, NetCom, automotive, medical and finance applications as well as across the Internet of Things (IoT).

Swissbit develops and manufactures industrial-grade storage and security products "Made in Germany" with long-term availability, high reliability and custom optimization.

Swissbit's storage range includes SSDs with PCIe and SATA interface such as mSATA, Slim SATA, CFast™, M.2 and 2.5" as well as CompactFlash, USB flash drives, SD, micro SD memory cards and managed NAND BGAs. Security products for embedded IoT applications are available in various application specific editions as USB flash drives, SD, and micro SD memory cards.

Swissbit was founded in 2001 and has offices in Switzerland, Germany, USA, Japan and Taiwan.

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