

PRESS RELEASE

For the Most Demanding Applications: New SLC SD and microSD Cards From Swissbit

New S-600 series with true SLC-NAND provides maximum reliability and unsurpassed data retention for critical industrial applications

Bronschhofen, Switzerland. December 6, 2022 – While many manufacturers are eliminating memory cards with SLC-NAND from their portfolios, Swissbit is introducing the S-600 series, the latest generation of SD and microSD cards based on single-level cell flash. When it comes to reliability, data integrity and data retention, the technology with only one stored bit per cell is still unrivaled. Only SLC offers 100,000 P/E cycles (Program/Erase Cycles), making it ideal for applications that require particularly robust, durable storage solutions. This is especially true for edge IoT applications in critical industrial environments, making the S-600 the first choice for devices such as PLCs, HMIs, sensors, switches, or gateways. The high-performance system architecture of the S-600 utilizes Hyperstone's new S9 controller, specifically designed for industrial flash memory cards. With sequential data rates of up to 95 MB/s, this new generation of cards is available in a wide range of sizes from 512 MB to 32 GB.

Swissbit's S-600 series is the first range to incorporate the new *Hyperstone S9 NAND Flash Controller*, explicitly developed for use in industrial applications. Unique firmware features guarantee an extended lifetime of safe and reliable storage of even the smallest data. First-class data preservation and data integrity is delivered in all situations: in high temperature conditions, through non-continuous writes, or sudden power failures.

Robustly developed for industrial application, the S-600 series is rated for use at temperatures ranging from -40 to +85 °C, and is resistant to humidity, shock, and vibration.

All S-600 series cards are fully SD 5.0 compliant and support both the SPI mode in embedded systems and UHS-I interface mode. UHS Speed Class U3 and Speed Class 10 are achieved, as well as Video Speed Class V30. Sequential data rates are 95 MB/s read and 55 MB/s write. Typical application scenarios for the SD and microSD cards include IPCs, HMI units, POS/POI terminals, medical systems, energy metering, and transportation.

The S-600 is available from 512 MB to 32 GB, and the S-600u microSD from 512 MB to 2 GB.

A broad SLC portfolio with the reliability needed for long-term planning

With the S-600 series, Swissbit is further expanding its range of single-level cell solutions, solidifying its position as one of the few manufacturers able to offer SLC memory technology for numerous form factors and interfaces. As a specialist in industrial memory solutions, Swissbit provides the quality solutions required by customers whose applications demand exceptional flash memory service life, for systems in constant use over many years.

With SLC variants for CFast and CompactFlash cards, numerous SATA modules, and 2.5-inch SATA SSDs, Swissbit ensures the reliable continued operation of customer applications both now and into the future.

Available images

The following images are available for download in printable format at:

<https://kk.htm.de/press-releases/swissbit/>



Image Source: Swissbit

Sets the standard in reliability, data integrity and data preservation: the new S-600 series with SLC-NAND for use in critical industrial applications.

About Swissbit

Swissbit AG is the leading European manufacturer of storage, security 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 fiscal applications as well as across the Internet of Things (IoT).

Swissbit develops and manufactures industrial-grade storage and security products "Made in Germany" with high reliability, long-term availability, 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 Memory Cards, micro SD Memory Cards and managed NAND BGAs like e.MMC. Security products are available in various application specific editions as USB flash drives, SD Memory Cards, and micro SD Memory Cards.

Swissbit was founded in 2001 and has offices in Switzerland, Germany, USA, Japan and Taiwan. Swissbit owns the registered trademarks Swissbit® and Hyperstone®. Since 2020, the independent investment firm Ardian is holding a majority stake in the company to support its growth.

For further information, please visit www.swissbit.com

Regional Headquarters:

Swissbit Germany AG
Bitterfelder Strasse 22
12681 Berlin
Germany
Tel: +49 30 936 954 0
Email: info@swissbit.com
www.swissbit.com

Headquarters:

Swissbit AG
Industriestrasse 4
9552 Bronschhofen
Switzerland
Tel: +41 71 913 03 03
Email: info@swissbit.com
www.swissbit.com

Contact:

Swissbit AG
Marian Weber
Industriestrasse 4
9552 Bronschhofen
Switzerland

Tel: +49 172 854 88 26
Email: marian.weber@swissbit.com
www.swissbit.com

Press Agency:

HighTech communications GmbH
Brigitte Basilio
Brunhamstrasse 21
81249 Munich
Germany

Tel: +49 89 500778-20
Fax: +49 89 500778-77
Email: b.basilio@htcm.de
www.htcm.de