Swissbit showcases industrial-quality memory and security products at electronica virtual

Store and protect data reliably.

WESTFORD, MASSACHUSSETTS, USA, November 6, 2020 /EINPresswire.com/ -- Swissbit AG will be presenting robust and durable flash memory solutions for industrial applications at electronica virtual 2020, the digital platform of the biennial electronica show from November 9 to 12, 2020. Swissbit's Embedded IoT Solutions division, which was founded one year ago, will showcase its hardware-based security solutions designed to protect data and devices in Internet of Things (IoT) applications. The compelling

Swissbit presents reliable and industrial-compatible storage and security products at electronica virtual 2020

Embedded IoT growth market and its challenges are also the subject of a Swissbit presentation in the conference program at the exhibition.

At 12:10pm on November 12, 2020, the topic "IoT security embedded in memory cards" will be on the agenda at the Embedded Platforms Conference (Track 4). The speaker is Christian Ullrich, Senior Product Manager Embedded IoT Solutions at Swissbit AG.

Reliable memory products of industrial quality.
Swissbit's product showcase on Flash Memory for Industrial Applications goes by the headline: "Endurance with 3D-NAND". Making flash technology, which is normally geared towards low-cost mass storage for consumers, usable as durable, robust media in industrial applications is Swissbit's signature achievement.

The S-50 and S-56 series are SD and microSD memory cards that tolerate fluctuating temperatures between read and write operations over the entire specified temperature range of -40 to +85°C. Due to these resilient characteristics, this series offers the highest reliability for demanding applications such as data recorders and industrial PCs.

With its N-20m2, Swissbit offers a robust and powerful SSD featuring low power consumption and quad PCIe-3.1 interface. It is available in standard 2242 and 2280 dimensions as well as the smaller M.2 2230 form factor. This memory module is the ideal boot medium for small embedded systems and routers.

Another product in compact BGA format is the new EM-30 in the e.MMC 5.1 standard. Capacities from 16 to 256 GB are available and, thanks to 3D-NAND, it is significantly more cost-effective than previous 2D-NAND products. Applications range from embedded systems, POS/POI terminals, factory automation, routers and switches to Internet of Things (IoT) and medical systems solutions.

Secure security products "Made in Germany".

In its state-of-the-art factory in Berlin (Germany), Swissbit proudly manufactures security products as highly integrated systems-in-package under the "Made in Germany" banner. One of the products demonstrates how intelligent security functions can be integrated into storage media: the Swissbit Technical Security Device (TSE) for the conversion of POS systems. Swissbit was the first manufacturer to offer a certified TSE that makes POS systems tamper-proof – as a stand-alone device, LAN connected or a cloud solution.

By using familiar form factors and common flash storage media interfaces, Swissbit provides manufacturers of embedded IoT systems with a convenient, low-cost and low-effort integration approach. By means of a secure element and cryptographic functions, the security modules assume the function of a TPM (Trusted Platform Module) and undertake encryption tasks. This enables the secure authentication of M2M communication participants and data encryption in networked devices, machines and systems.

To make it simpler for developers to adopt data protection measures using storage-based security solutions, Swissbit offers a Secure Boot solution for Raspberry Pi.

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