

# Swissbit Introduces Universal Security Solution for Raspberry Pi

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Swissbit has launched a solution for the encryption and access protection of data on a Raspberry Pi to secure the boot image and the boot process.

Swissbit Secure Boot Solution for

Raspberry Pi consists of a PS-45u-DP-

microSD card 'Raspberry Edition' and a software development kit. This ensures protection of the Raspberry Pi bootloader, to encrypt boot & application code (for the protection of licenses), proprietary know-how and intellectual property or to provide write-protection. The Swissbit Secure Boot Solution for Raspberry Pi can be obtained via Mouser, Farnell or Digi-Key.

The Raspberry Pi's low-cost and widely used hardware can contain valuable and protectable data and functions. Swissbit now offers an easy-to-implement safety system based on a long-lasting flash memory suitable for industrial applications. This way, hardware-based security functions can be implemented independently of the CPU and with high flexibility – even retrospectively. The PS-45u-DP-microSD card 'Raspberry Edition' encrypts the data and allows access only via a flexible configurable authentication function, which unlocks further access to the data carrier in the pre-boot phase. The number of permitted invalid access attempts can be configured.

Users can implement security policies in three different ways: via PIN input, via the USB authentication dongle Swissbit USB-Stick PU-50n DP 'Raspberry Edition', or via a Net-Policy-Server. In addition, the microSD card can be coupled to the CPU and hence to the specific hardware (pairing).

"Devices are becoming smarter, but also more vulnerable," explains Hubertus Grobbel, Vice President Security Solutions at Swissbit. "Users as well as manufacturers need to take greater security considerations into account when operating networked devices. At Swissbit, we offer a



Swissbit's Secure Boot Solution for Raspberry Pi includes a PS-45u-DP-microSD card 'Raspberry Edition' and a software development kit.

unique hardware-based solution for the protection of data and devices – it’s completely modular, flexible and easy to retrofit.”

The Swissbit Secure Boot Solution is suitable for Raspberry Pi 2 and 3B+. With its encryption and security functions, the flexible Swissbit solution protects against unauthorized data access, code manipulation and IP violations in applications, and ensures the system integrity of Raspberry Pi devices. It is available online through Mouser Electronics, Farnell and Digi-Key Electronics.

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#### 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 real industrial 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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