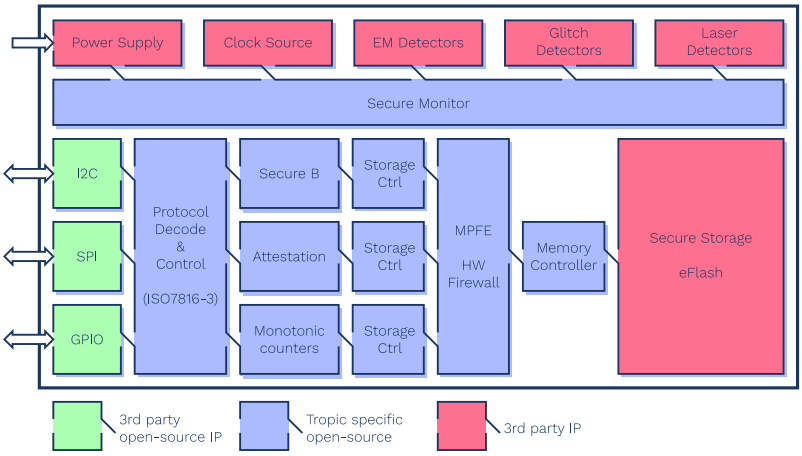
TASSIC
Transparent and secure chip.

The Transparent Authenticated Secure Storage Integrated Circuit (TASSIC) from Tropic Square is a cryptographically and physically secured, non-volatile storage chip.

TASSIC is designed for the special purpose of handling digital secrets and serving as a fundamental building block for digital trust, in a minimalistic implementation. Its cryptographic key management and ability to derive a digital unique identity secures storage in embedded systems and trusted digital devices.

Serial interfaces and compatibility with the ISO 7816-3 protocol positions TASSIC as a drop-in replacement for serial flash devices and secure elements. It shortens time to market with transparent and auditable chip implementation. Open-source, production-grade software drivers and an FPGA-executable functional model of TASSIC are coming soon.



Key Features

- **TASSIC** transformation of a low-entropy secret (PIN) to a high-entropy secret can be used in **various cryptographic applications**.
- **TASSIC focuses on security** at all stages of the chip lifecycle. From manufacturing, through deployment, runtime, **and even when powered off.**

- **I2C, SPI attached to Host MCU**
- **HW Ed25519 cryptography**
- **Chacha20-Poly 1305 AEAD**
- **SHA2, BLAKE2 hash algorithms**
- **Side-channel resistance**
- **Voltage and clock glitch detection**
- **EM pulse and laser fault injection detectors**
- **8-pin package & microSD card**

Want to learn more?

Visit our website at **tropicsquare.com** or email us at **welcome@tropicsquare.com**

Tropic Square is a privately held company founded in 2020 in the Czech Republic. Our goal is to fundamentally change the way chips are designed by creating a secure and fully open-source chip that can be verified by anyone.

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