

STSAFE-A110

Optimized secure solution
to protect your business



STSAFE-A110 secure element enables brand protection and safeguards embedded systems

STSAFE-A110 is an optimized solution for applications exposed to fraud or counterfeiting. This STSAFE* secure element is a key enabler for companies looking to build an ecosystem around their brand.

Running on a CC EAL5+ platform, STSAFE-A110 is a highly secure authentication solution with security features certified by independent third parties.

Its command set is tailored to ensure strong device authentication, to monitor device usage, to assist a nearby host secure channel establishment (TLS), and to safeguard host platform integrity.

Note: *is a registered and/or unregistered trademark of STMicroelectronics International NV or its affiliates in the EU and/or elsewhere.

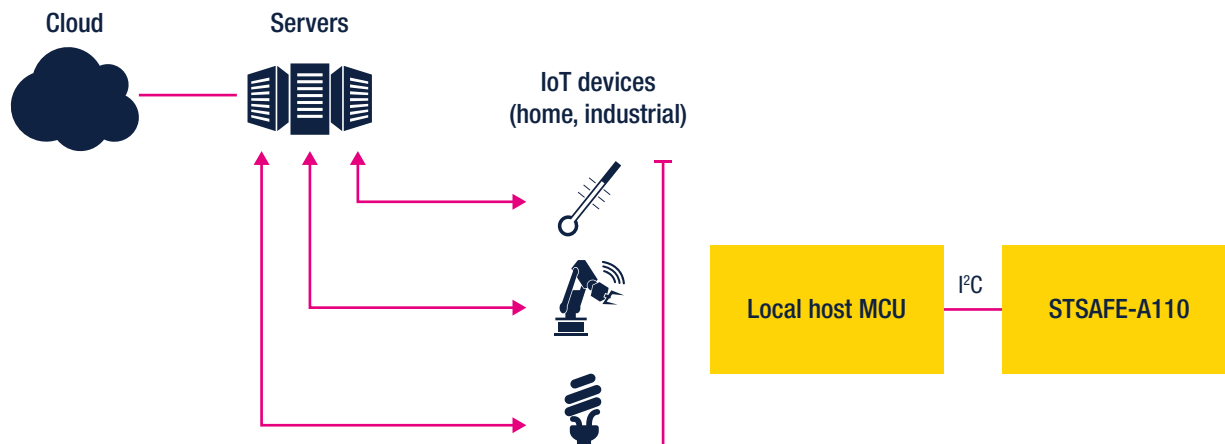
KEY FEATURES

- Strong authentication (compliant with USB-C and Qi)
- Secure channel establishment (TLS)
- Signature verification
- Decrement counter
- Secure data storage
- Amazon AWS JIT and Microsoft Azure DPS device enrollment
- LoRa- and Sigfox-compliant
- CC EAL5+ certified

KEY BENEFITS

- Optimized for consumable and small platforms
- Personalization services
- Seamless integration using libraries compatible with STM32 and other general-purpose MCUs
- Available for order at eDistribution

STSAFE-A110, a turnkey solution for brand protection and securing embedded systems



STSAFE-A110 ecosystem for seamless security

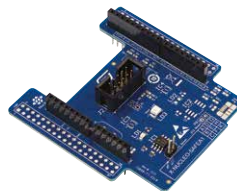
STSAFE-A110 is an STSAFE-A secure element with state-of-the-art security features that prevent counterfeiting of genuine peripherals and IoT devices. Its ecosystem contains a complete set of tools for seamless integration:

- Compatible with STM32 Nucleo expansion board (X-NUCLEO-SAFE1A)
- STM32Cube software development ecosystem (X-CUBE-SAFE1)
- Pre-personalized STSAFE-A110 (STSAFA110S8SPL02 and STSAFE110DFSPL02)
- Arduino™ interfaces, drivers and source code examples

Order your X-NUCLEO-SAFE1A online at www.st.com/stsafe-a110



STSAFE-A110 packages



X-NUCLEO-SAFE1A

Product portfolio

| Product name | OS support | Interface | Certification | Package options | Operating temperature range | NVM storage |
|--------------|---|------------------|---------------|-------------------------------|-----------------------------|-------------|
| STSAFE-A110 | <ul style="list-style-type: none"> • Strong authentication • Secure connection establishment • Usage monitoring • Host platform integrity • LoRa- and Sigfox-compliant | I ² C | CC EAL5+ HW | S08N 5 x 6 mm DFN 2 x 3 mm | From -40 to +105° C | 6 Kbytes |



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