



STSAFE-A120

Protect ecosystems & services based on connected devices



Securely attach connected devices to Cloud networks and protect services

STSAFE-A120 is a companion chip to the connected device's main processor. Connected via a simple I²C interface, STSAFE-A120 offers security services to authenticate the connected device and securely attach it to a remote server or Cloud networks.

STSAFE-A120 comes with a rich feature set that ensures strong device authentication based on X509 certificates. The chip offers a range of capabilities, including monitoring device usage, assisting in secure connection establishment using TLS, and safeguarding the integrity of the host platform.

Running on a CC EAL5+ certified platform, STSAFE-A120 is a highly secure authentication solution with state-of-the-art security features certified by independent third parties.

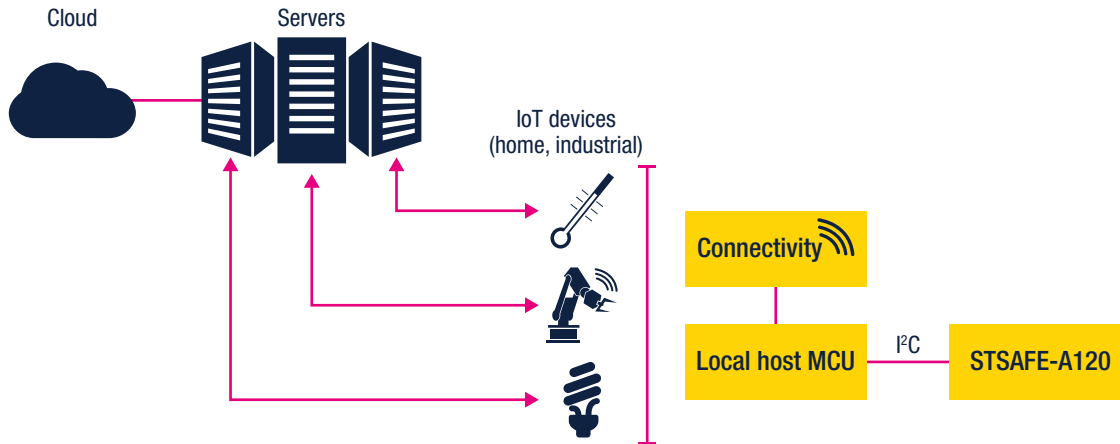
KEY FEATURES

- Authentication with X509 personalized certificates (Qi 2.0 and Matter compatible)
- Secure connection establishment (TLS)
- Symmetric encryption and decryption
- Secure data storage and secure counters
- Signature verification
- Remote cloud authentication
- Amazon AWS JIT and Microsoft Azure DPS device enrollment
- CC EAL5+ AVA_VAN5 certified

KEY BENEFITS

- Personalization services at ST secure manufacturing sites starting at 5 Ku
- Seamless integration using libraries compatible with STM32 and other general-purpose MCUs

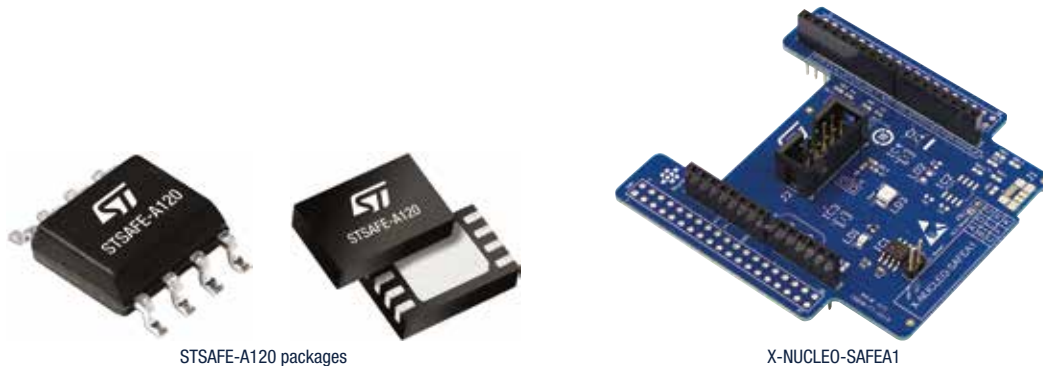
A turnkey solution for anticloning and connected device services



A rich ecosystem for seamless integration

- Compatible with STM32 Nucleo expansion board
- STM32Cube software development ecosystem
- Linux development ecosystem
- Pre-personalized STSAFE-A120 (STSAFA120DFSPL05 and STSAFA120S8SPL05)
- Arduino interfaces, drivers and source code examples

Available at www.st.com/stsafe-a120



Product summary

Product name	Product features	Interface	Certification	Package options	Operating temperature range	NVM storage
STSAFE-A120	<ul style="list-style-type: none"> • Authentication with personalized X 509 certificates • Secure connection (TLS) • Symmetric encryption and decryption • Secure data storage and counters • Signature verification • Remote cloud authentication • Amazon AWS JIT and Microsoft Azure DPS device enrollment 	I ² C	CC EAL5+ HW	SO8N 4 mm x 5 mm DFN8 2 mm x 3 mm	From -40° to +105°C	16 Kbytes



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