



# STSAFE-A

## For Strong Authentication Securing Internet of Things

A turnkey and optimized solution



# STSAFE-A

## Answering Security Needs

### Security Functions & Needs

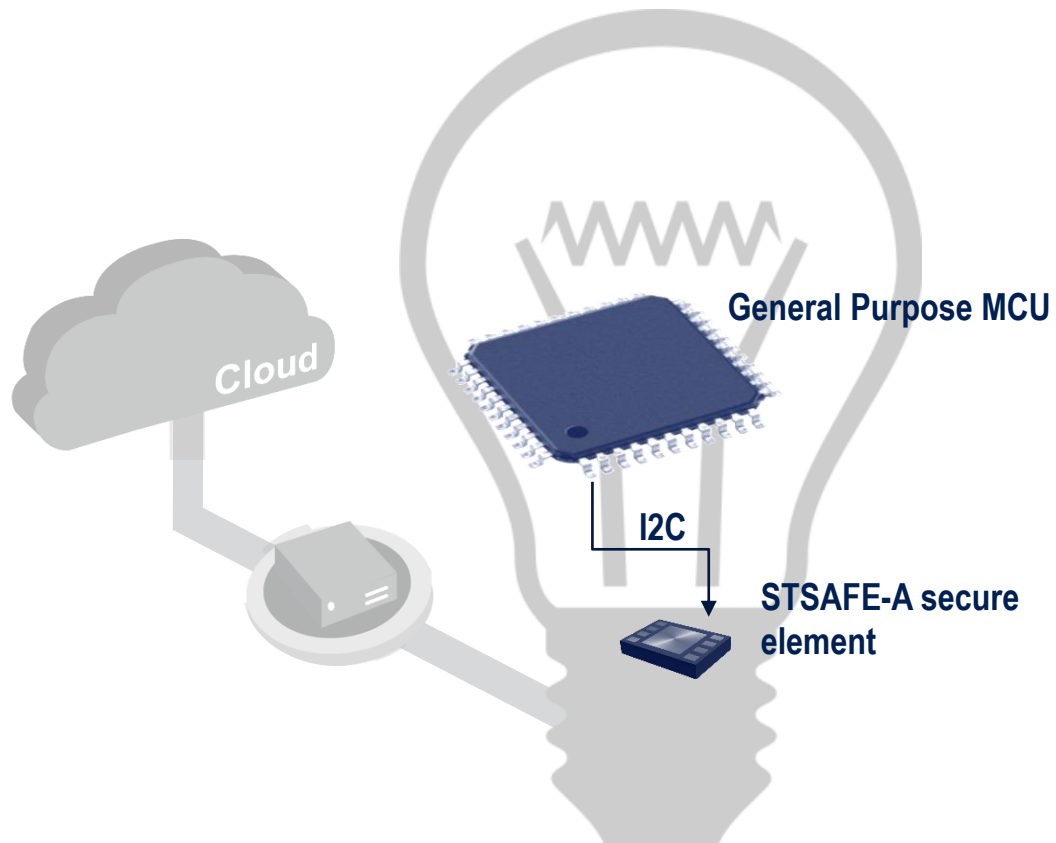
Services	<b>Authentication</b> : Device recognition & authenticity verification How to ensure only authorized devices are connected to the host?
	<b>Data Exchange</b> : Secure Data Exchanges How do I protect my communication from intrusions and spying?
Enablers	<b>Data Storage</b> : Secure provisioning & secure storage How do I ensure critical assets in the device are not compromised?
	<b>Code Execution</b> : Secure Code Execution How can I make sure the devices function as intended?

Consumables & Peripherals	Embedded Systems & IoT Devices



# STSAFE-A

## Easy-to-use security services for IoT developers



Authentication

Secure communication

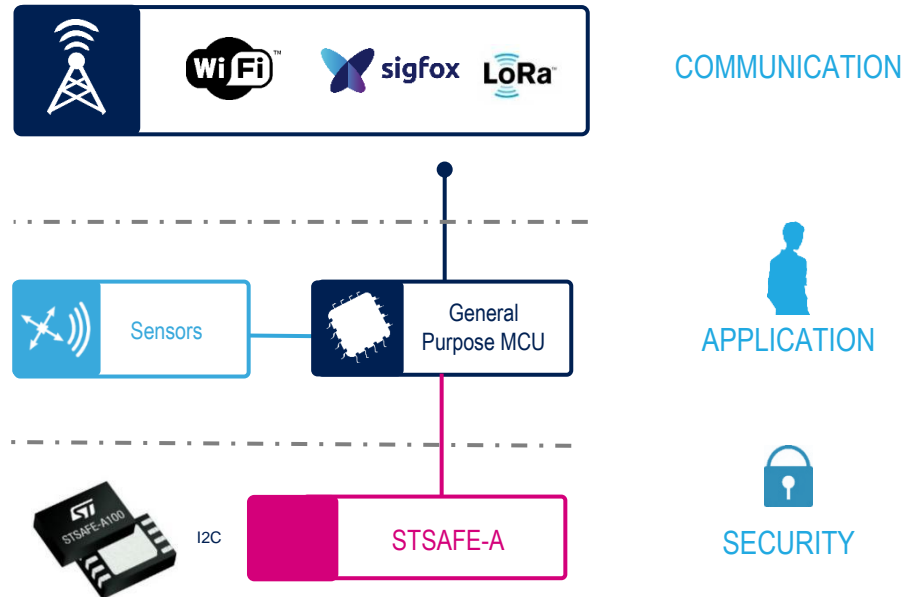
Secure storage

Personalized for customers (MOQ: 5k)



# STSAFE-A

## Optimized secure solution for connected devices



- Authentication
- Data & certificates storage
- TLS secure channel key establishment
- Signature verification
- USB Type-C and Qi charging authentication
- EAL5+ Common Criteria certified chip
- LPWAN compliant LoRa and Sigfox
- Seamless integration with GP MCU
- Personalization services (MOQ: 5K)



# STSAFE-A

## Documents and Development tools

### Documents

Databriefs

Datasheet

- Use case description
- Electrical characteristics
- Package information

### Expansion board

- Activated STSAFE-A with default configuration
- Directly compatible with STM32 X-Nucleo boards



X-NUCLEO-STSA100



STM32DBL375  
Discovery Board



STM32 LoRA™  
Discovery Kit

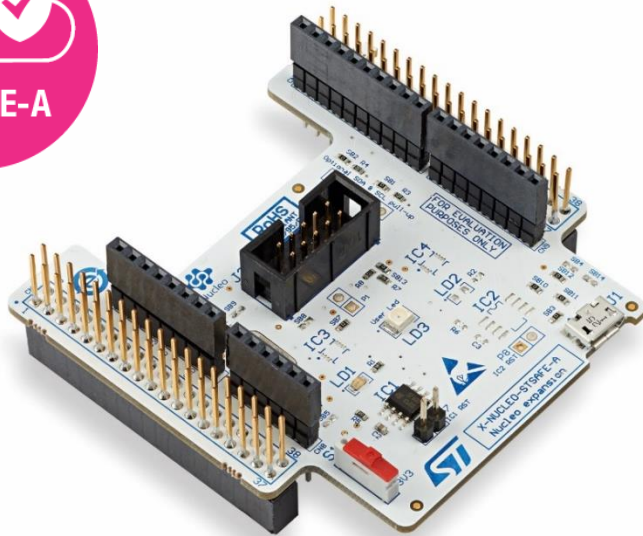
### Host library

SW that runs on GP MCU  
(e.g. STM32):

- STSAFE driver and command wrapper
- Example codes available for main use cases

# Access your STSAFE kit online

for a Seamless Security Development on IoT Devices



Get Software NOW



## STSAFE-A100 Open Development kit

- Product datasheet
- Expansion board
- Software package with driver and examples

Authentication

Secure connection establishment

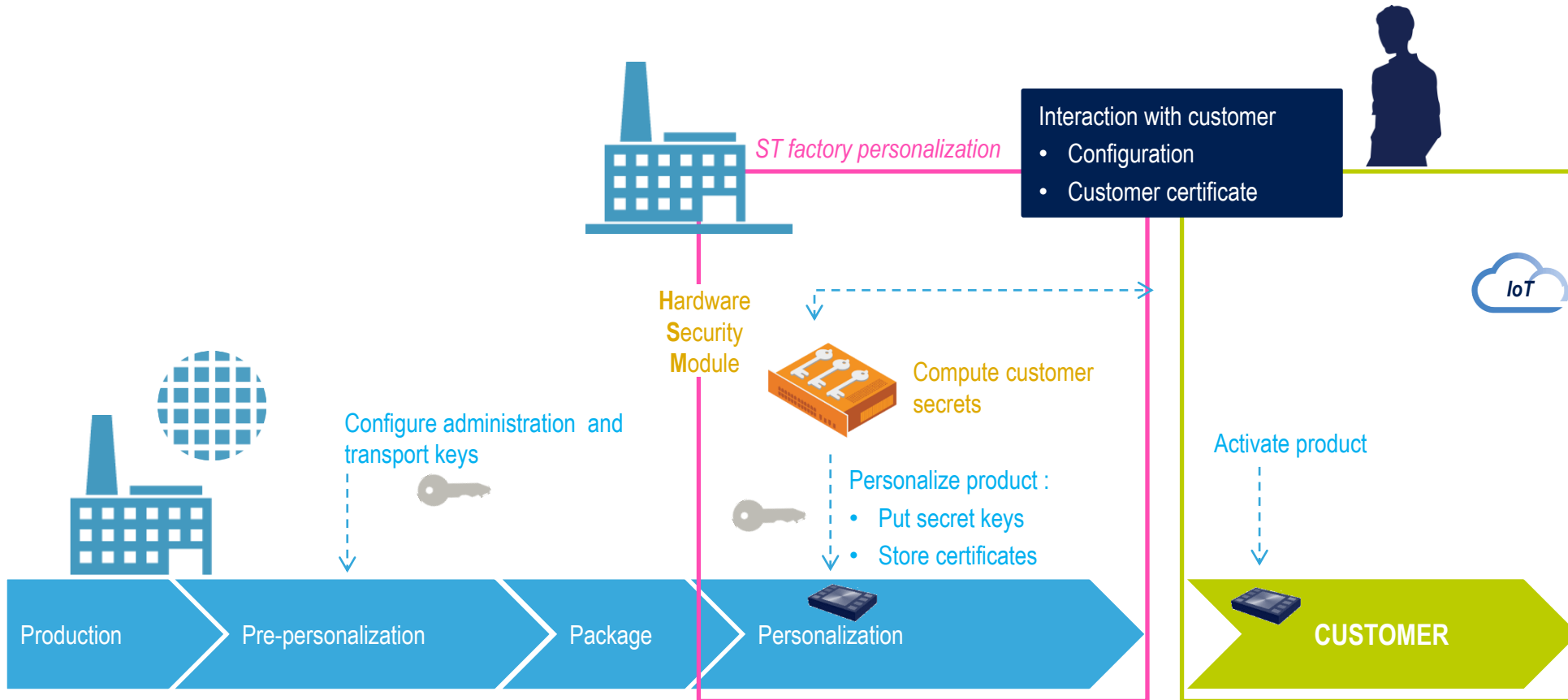
Secure data storage

Personalization services



# STSAFE-A

## Personalization Flow



Fabrication & personalization phases



life.augmented

