

# Get ready for the largest IoT development ecosystem



## 4000 possible combinations of STM32/STM8 MCUs and SX127x radios

### THE BRAIN

Choose from basic, ultra-low-power or high-performance with STM8 (8-bit) or STM32 (32-bit) MCUs. Pick from a portfolio that offers from 2 Kbytes up to 2 Mbytes of Flash memory with 14 up to 216 pins with tiny form factor packages, and a rich set of analog and connectivity peripherals.

### COMMUNICATION

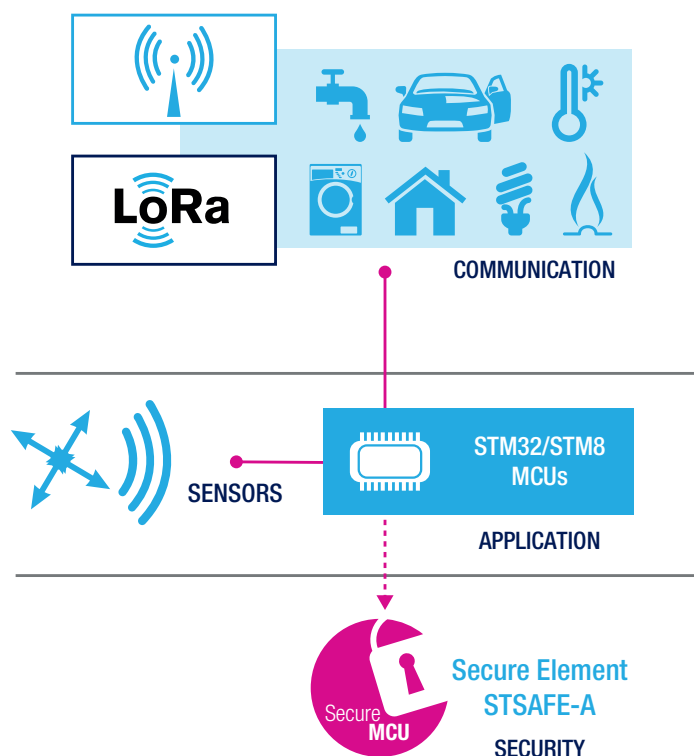
Choose the appropriate LoRa radio which best matches your application needs. Add short range connectivity with NFC and Bluetooth.

### SECURITY

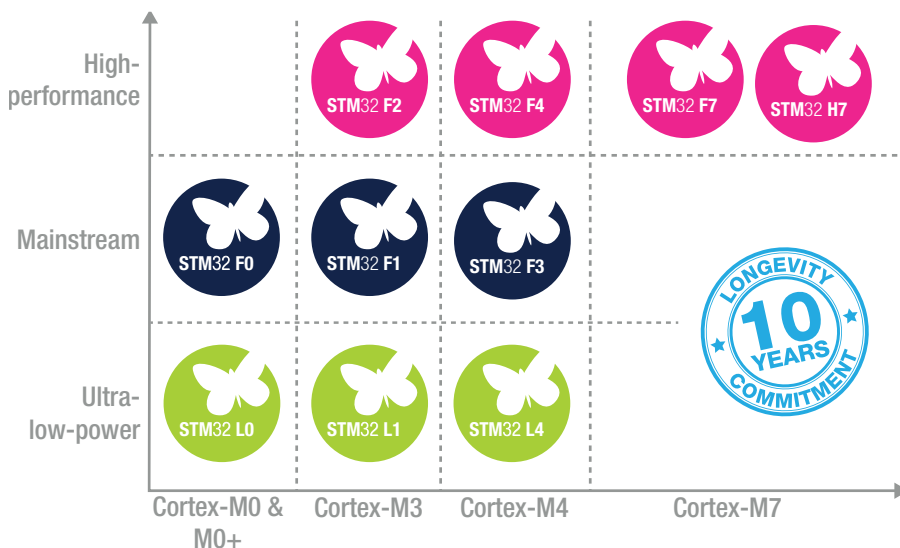
STSAFE-A is a turnkey solution for the IoT. Optimized for small platforms and providing state-of-the-art security relying on CC EAL5+ hardware, the STSAFE-A allows easy integration using libraries compatible with standard MCUs.

### SENSING

Add sensing capabilities to your application with environmental, motion and proximity sensors.



## STM32 RELEASING YOUR CREATIVITY



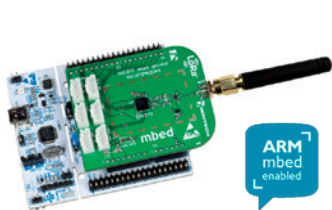
## MORE THAN 30 PRODUCT LINES

With 10 product series, the STM32 portfolio offers an extraordinary variety of options including ARM® Cortex®-M cores (M0, M0+, M3, M4, and M7), giving developers flexibility to find the perfect match for their application. Particular attention is paid to make it easy to migrate from one device to another. The compatibility of binaries combined with the similar pinout assignment, proliferation of hardware IPs and higher-level programming languages greatly facilitates the work of developers.



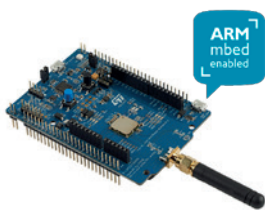
## HARDWARE TOOLS AND EMBEDDED SOFTWARE

Up to three dedicated HW tools to play and develop with STM32™ around LoRa® technology



STM32 NUCLEO PACK

P/N: P-NUCLEO-LRWAN1  
(ST and Semtech)



DISCOVERY KIT

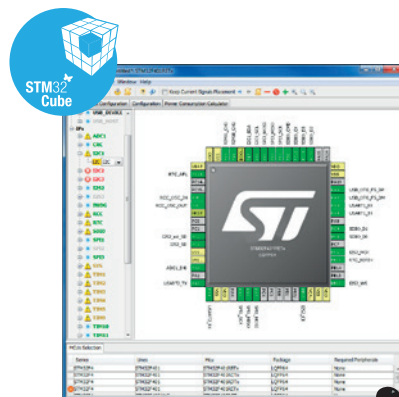
P/N: B-L072Z-LRWAN1  
(ST and Murata®)



EXPANSION BOARD

P/N: I-NUCLEO-LRWAN1  
(ST and USI®)

## SOFTWARE TOOL



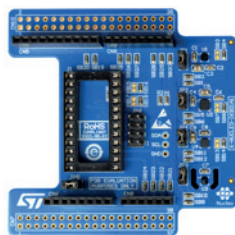
Windows macOS™



STM32CubeMX enables fast development thanks to its MCU clock configurator, power consumption calculator and code generation tools.

## STM32 OPEN DEVELOPMENT ENVIRONMENT (STM32 ODE)

Additional ST expansion boards available



X-NUCLEO-IKS01A1

Motion and environmental sensors



X-NUCLEO-NCF01A1

M24SR-based NFC tag expansion board



X-NUCLEO-IDB04A1

BlueNRG-based Bluetooth Smart expansion board



STM32 Open Development Environment

