

GET READY FOR THE LARGEST



IoT development ecosystem



STM32WL: The only LoRa®-enabled System-on-Chip on the market

A wireless brain

Choose from different STM32WL packages, up to 256 Kbytes of Flash memory, with tiny form factors, 48 up to 73 pins, and a rich set of analog and connectivity peripherals. Alternatively, choose from 4000 possible combinations of STM32/STM8 MCUs and SX127x/SX126x radios.

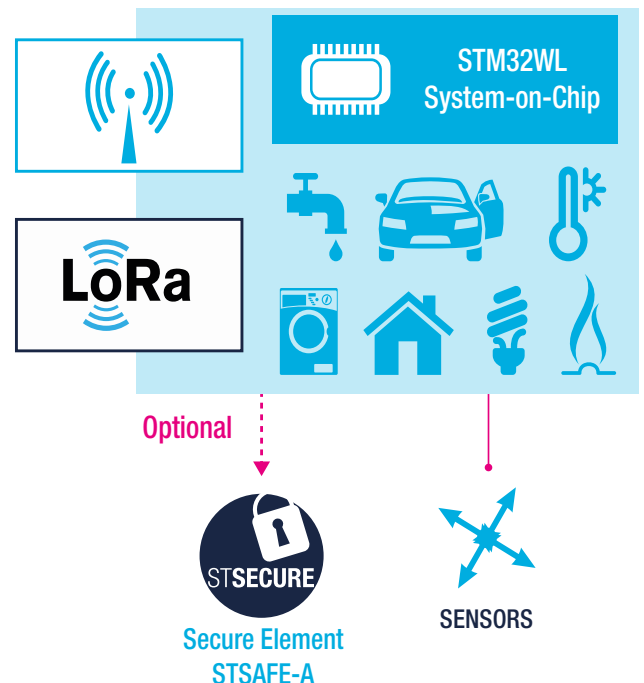
Add short range connectivity with NFC, Bluetooth® LE, Zigbee®, Thread® or Ultra-Wide-band.

Security

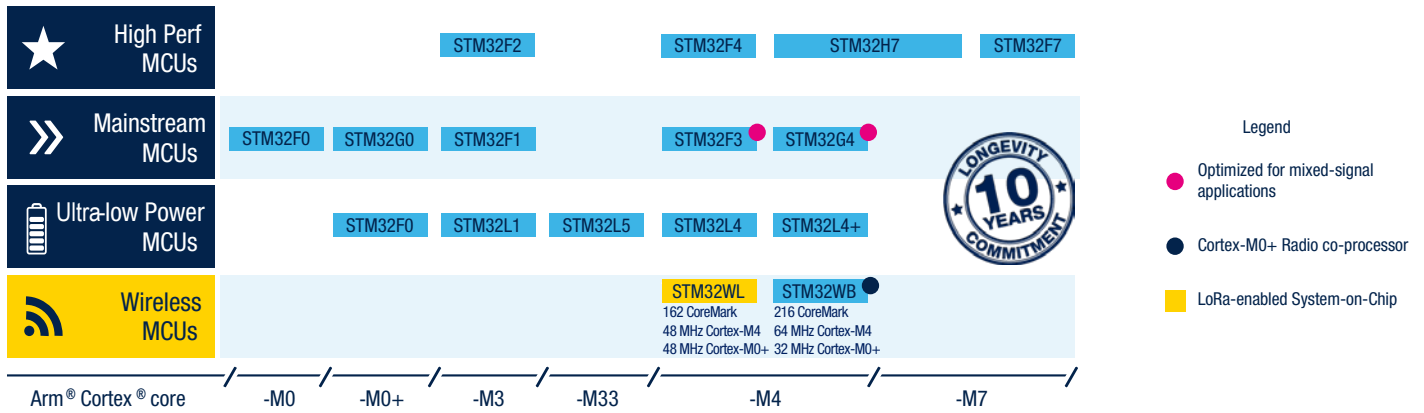
STSAFE A is a turnkey solution for the IoT. Optimized for small platforms and providing state of the art security relying on CC EAL5+ hardware, the STSAFE A allows easy integration using libraries compatible with standard MCUs.

Sensing

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



STM32 32-Bit Arm Cortex MCUs - More than 70 product lines

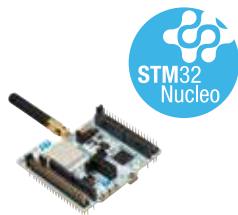


Particular attention is paid to make it easy to migrate from one device to another.

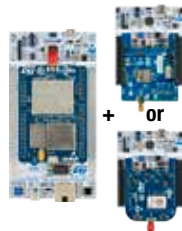
The compatibility of binaries combined with the similar pinout assignment, proliferation of hardware IPs and higher-level programming languages greatly facilitates the work of developers.

Hardware tools and embedded software

Up to five dedicated HW tools to play and develop with STM32 around LoRa technology



NUCLEO-64 BOARD
 P/N: NUCLEO-WL55-JC1^a
 P/N: NUCLEO-WL55-JC2^b
 (ST)



2 NUCLEO PACKS:
 GATEWAY + END-NODE
 P/N: P-NUCLEO-LRWAN2^a
 P/N: P-NUCLEO-LRWAN3^b
 (ST and USI®/RisingHF®)



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



EXPANSION BOARD
 P/N: I-NUCLEO-LRWAN1
 (ST and USI®)

Legend: a: EU/US/APAC (868/915/923 MHz) b: CN (433/470 MHz)

Software tools



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

LoRaWAN® and Sigfox stacks available in **STM32CubeWL** firmware package.

Additional ST expansion boards

STM32 Nucleo expansion boards open the door to any type of specialized application, and are supported in the corresponding STM32Cube Expansion packages (available at www.st.com/x-cube) with many preconfigured example projects for IAR, Arm® Keil, and STM32CubeIDE.



P/N: X-NUCLEO-IKS01A3
 Motion and environmental sensors



P/N: X-NUCLEO-NFC04A1
 M24SR-based NFC tag expansion board



P/N: X-NUCLEO-53L3A2
 Multi-targets VL53L3CX ranging sensor expansion board



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