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

- High Perf MCUs
- Mainstream MCUs
- Ultra-low Power MCUs
- Wireless MCUs

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

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 Firmware packages available in STM32CubeWL.