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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 8 up to 216 pins with tiny form factor packages, and a rich set of analog and connectivity peripherals.

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Add sensing capabilities to your application with environmental, motion and proximity sensors.
STM32 32-BIT ARM CORTEX MCUS

With 15 product series, the STM32 MCUs portfolio offers an extraordinary variety of options including Arm® Cortex®-M cores (M0, M0+, M3, M33, 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

A LoRaWAN stack (i-CUBE-LRWAN) is now available from www.st.com/i-cube-lawan

SOFTWARE TOOL

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

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.