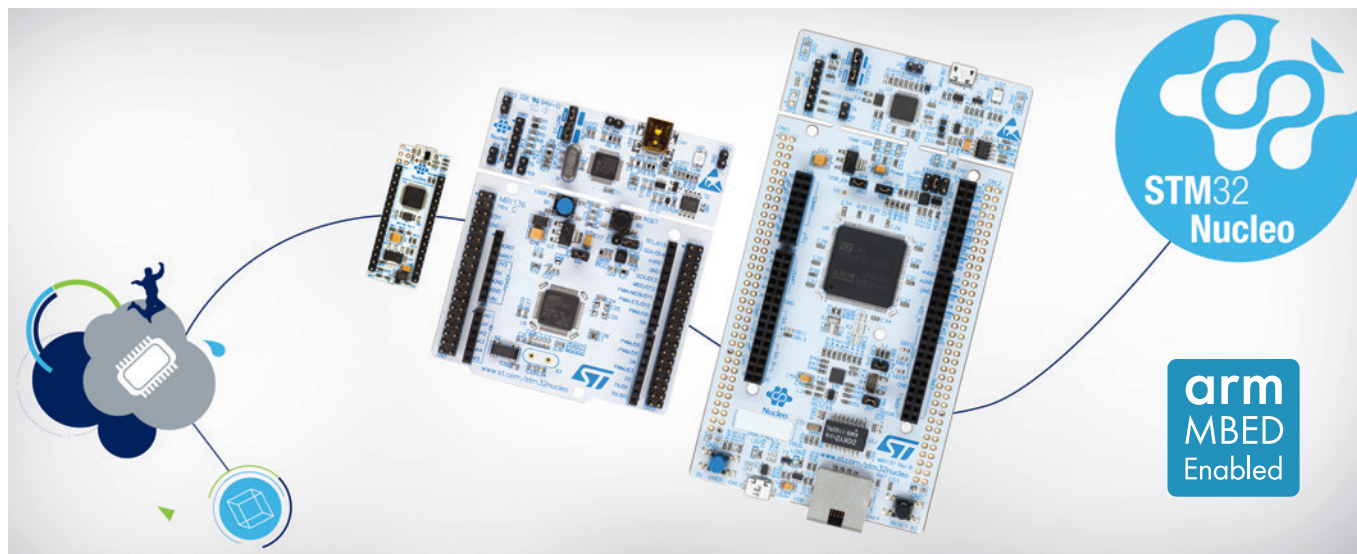


STM32 Nucleo boards

Unified scalable offering



Open STM32 development platform for flexible prototyping

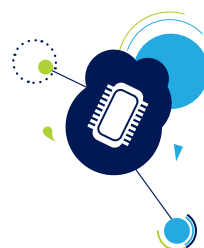
The highly affordable STM32 Nucleo boards allow anyone to try out new ideas and to quickly create prototypes with any STM32 MCU.

STM32 Nucleo boards can easily be extended with a large number of specialized application hardware add-ons thanks to Arduino Uno Rev3 and ST morpho connectors on Nucleo-144 and Nucleo-64, ST Zio connectors on Nucleo-144, and Arduino Nano connectors on Nucleo-32.

Moreover, Nucleo boards integrate an ST-Link debugger/programmer, so there is no need for a separate probe.

A comprehensive STM32 software HAL library together with various software examples are provided with STM32 Nucleo boards, and work smoothly with a wide range of development environments including IAR EWARM, Keil MDK-ARM, Mbed and GCC-based IDEs.

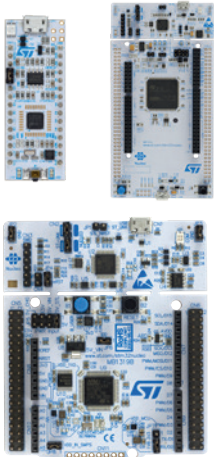
Most STM32 Nucleo boards can be seamlessly used with Mbed online resources (compiler, C/C++ SDK, and developer community) at www.mbed.org allowing to build a complete application in only a few minutes.



KEY FEATURES

- Includes one STM32 microcontroller in a 32-pin, 64-pin or 144-pin package
- On-board ST-LINK/V2-1 debugger/programmer:
 - Virtual COM port
 - Mass storage
- Wide extension capabilities with specialized shields:
 - Arduino Uno rev3 connectors on Nucleo-64 and Nucleo-144
 - Access to a wider range of peripherals through Zio connectors on Nucleo-144
 - Access to all MCU pins through ST morpho connectors on Nucleo-64 and Nucleo-144
 - Arduino Nano connectors on Nucleo-32
- Direct access to Mbed online resources for most boards
- Supported by IAR, Keil, Arm® Mbed™ online, and GCC-based IDEs (Atollic, AC6, Emprog, Keolabs, Rowley, Segger, Tasking...)

STM32 NUCLEO DEVELOPMENT BOARDS

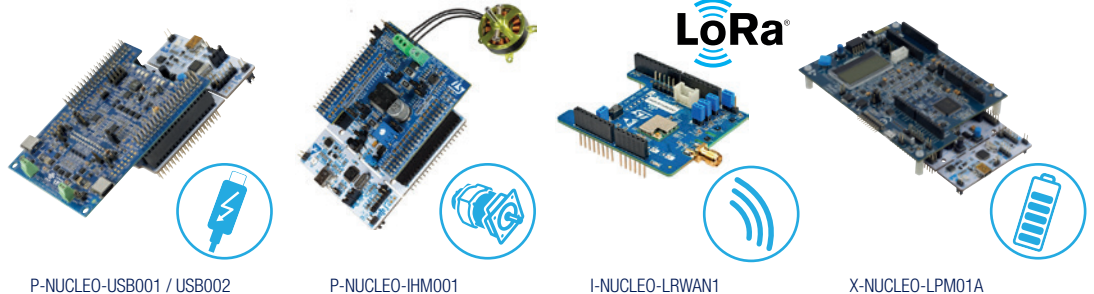


www.st.com/stm32nucleo

STM32 NUCLEO EXPANSION BOARDS

Unlimited possibilities

STM32 Nucleo development boards can easily be expanded through a variety of add-on boards. These expansion boards open the door to any type of application leveraging the appropriate mix of performance/peripherals/power within the comprehensive STM32 family.



P-NUCLEO-USB001 / USB002

P-NUCLEO-IHM001

I-NUCLEO-LRWAN1

X-NUCLEO-LPM01A

www.st.com/x-nucleo

MULTIPLE IDE SUPPORT



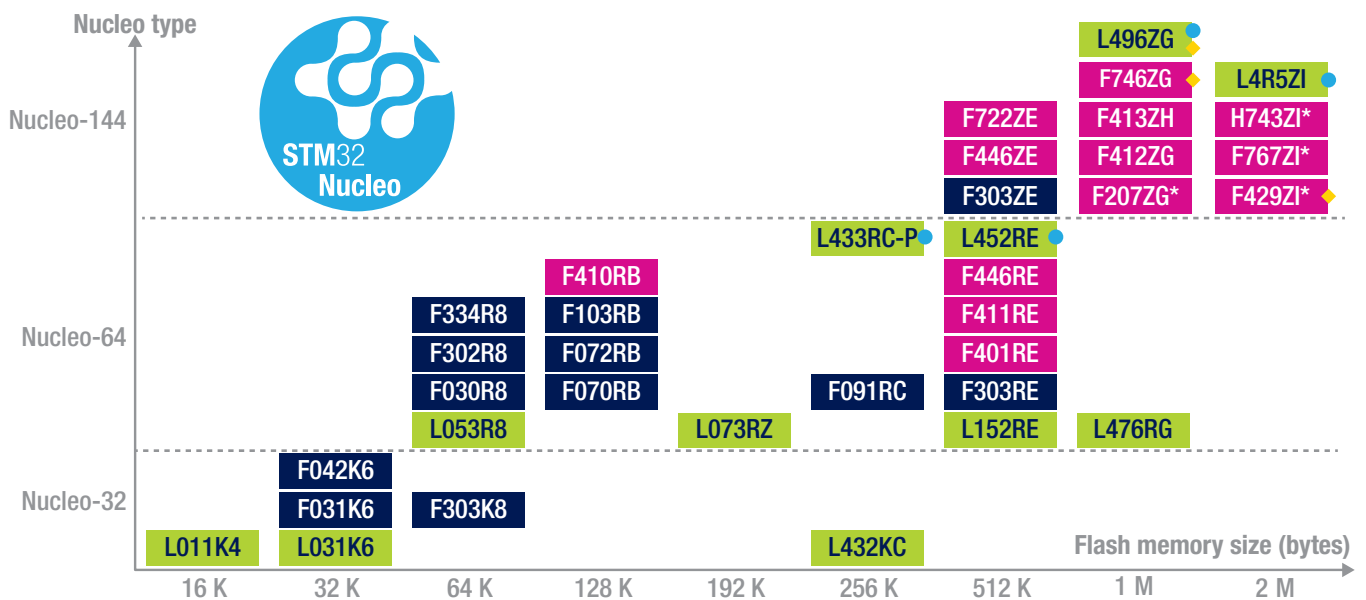
EMBEDDED SOFTWARE

STM32 Nucleo boards are supported in the corresponding STM32 MCU packages with many pre-configured example projects for IAR, Keil and AC6 SW4STM32.

- STM32Cube Expansion package available at www.st.com/x-cube
- STM32Cube MCU package available at www.st.com/stm32cubemcupack



STM32 NUCLEO BOARD PORTFOLIO



Note: * Ethernet 10/100 Mbps

Legend: ■ Mainstream ■ Ultra-low-power ■ High-performance ● SMPS version available ◆ HW crypto/Hash version available

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