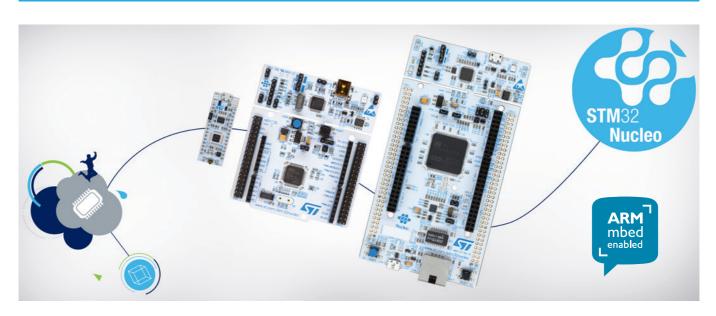


# STM32 Nucleo boards



## **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 (Arduino Uno Rev3 and ST morpho connectors on Nucleo-144 and Nucleo-64, ST Zio connectors on Nucleo-144, Arduino Nano connectors on Nucleo-32).

The STM32 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 seamlessly work with a wide range of development environments including IAR EWARM, Keil MDK-ARM, mbed and GCC/LLVM-based IDEs.

All STM32 Nucleo users have free access to the 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.

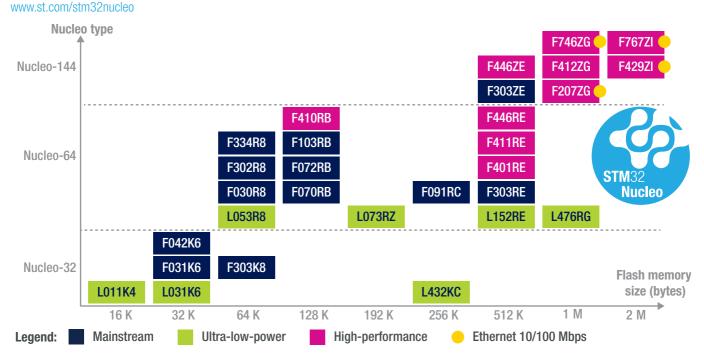


### **KEY FEATURES**

- Includes one STM32 microcontroller in 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
- Supported by IAR, Keil, ARM<sup>®</sup> mbed<sup>™</sup> online, and GCC/ LLVM-based IDEs (AC6, Atollic, Coocox, Emprog, Keolabs, Rowley, Segger, Tasking...)

#### STM32 NUCLEO BOARD PORTFOLIO

Unified offering with scalable performance/features/power mix

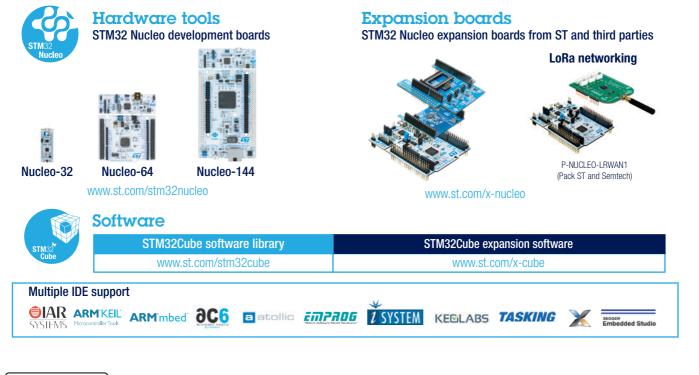


#### **STM32 NUCLEO EXPANSION BOARDS**

#### **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.

Each expansion board integrates the necessary components to implement specialized features of a chosen application, and comes with complementary STM32 software modules.





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