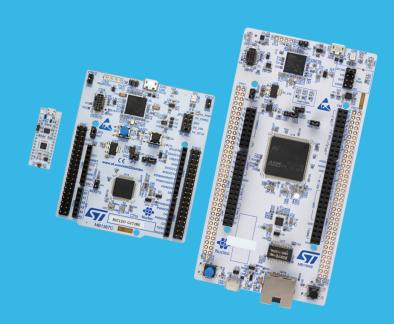
STM32 NUCLEO BOARDS



Unified scalable offering





Open STM32 development platform for flexible prototyping

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

The STM32 Nucleo boards, which include a STM32 microcontroller typically in a 32-pin, 64-pin, or 144-pin package, can easily be extended with many specialized application hardware addons.

The STM32 Nucleo expansion boards open the door to any type of application by offering an optimal mix of performance, peripherals, and power within the STM32 family.

A comprehensive STM32 software HAL library, along with various software examples, is provided with the STM32 Nucleo boards. These resources integrate seamlessly with numerous development environments, allowing developers to build a complete application in only a few minutes.

KEY FEATURES

- On-board ST-LINK 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 ST MORPHO and optional Zio connectors on Nucleo-144
- Access to most 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 STM32CubeIDE, IAR, Arm Keil, Arm® Mbed™ online, and more IDEs

STM32 Nucleo board portfolio

Flash size (bytes) 4 M NUCLEO-U5A5ZJ-0 NUCLEO-U575ZI-Q NUCLEO-H563ZI NUCLEO-H7A3ZI-Q NUCLEO-H7557I-0 NUCLEO-F767ZI NUCLEO-H745ZI-Q 2 M NUCLEO-F439ZI NUCL FO-F42971 NUCLEO-L4R5ZI NUCLEO-F413ZH NUCLEO-H723ZG UCLEO-F412ZG 1 M NUCLEO-F207ZG NUCLEO-F746ZG NUCLEO-WBA55CG NUCLEO-L476RG NUCLEO-L4P5ZG NUCLEO-L4P5ZG NUCLEO-L496ZG NUCLEO-L496ZG-P NUCLEO-WBA52CG NUCLEO-WB55RG NUCLEO-U545RE-Q NUCLEO-L452RE-P NUCLEO-F446RE NUCLEO-F411RE NUCLEO-F446ZE NUCLEO-F722ZE NUCLEO-L452RE 512 K NUCLEO-L552ZE-Q NUCLEO-F303RE NUCLEO-G491RE NUCLEO-F303ZE NUCLEO-GOB1RE NUCLEO-G474RE NUCLEO-WB09KE 320 K NUCLEO-WB15CC NUCLEO-WL55JC NUCLEO-U083RC 256 K NUCLEO-WB07CC NUCLEO-L433RC-P NUCLEO-L432KC NUCLEO-F091RC NUCLEO-L073RZ NUCLEO-WB05KZ 192 K NUCL FO-F410RB NUCLEO-L010RB NUCLEO-L412RB-P NUCLEO-L412KB 128 K NUCLEO-F103RB NUCLEO-G431RB NUCLEO-G431KB NUCLEO-F072RB NUCLEO-G071RB NUCLEO-F070RB NUCLEO-G070RB NUCLEO-U031R8 NUCLEO-G031K8 NUCLEO-F334R8 64 K NUCLEO-L053R8 NUCLEO-H7S3L8 NUCLEO-F303K8 NUCLEO-F030R8 NUCLEO-F302R8 NUCL FO-L 031K6 32 k NUCLEO-F031K6 NUCLEO-F042K6 16 K NUCLEO-L011K4 Nucleo type Nucleo-64 Nucleo-144 Nucleo-32

STM32 Nucleo-144 board



NUCLEO-H753ZI

STM32 Nucleo-64 board



NUCLEO-G474RE

STM32 Nucleo-32 board



NUCLEO-L432



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Legend: Mainstream

Ultra-low-power

-P Corresponding to External SMPS version -Q Corresponding to Internal SMPS version

◆ HW crypto/Hash version available

High-performance