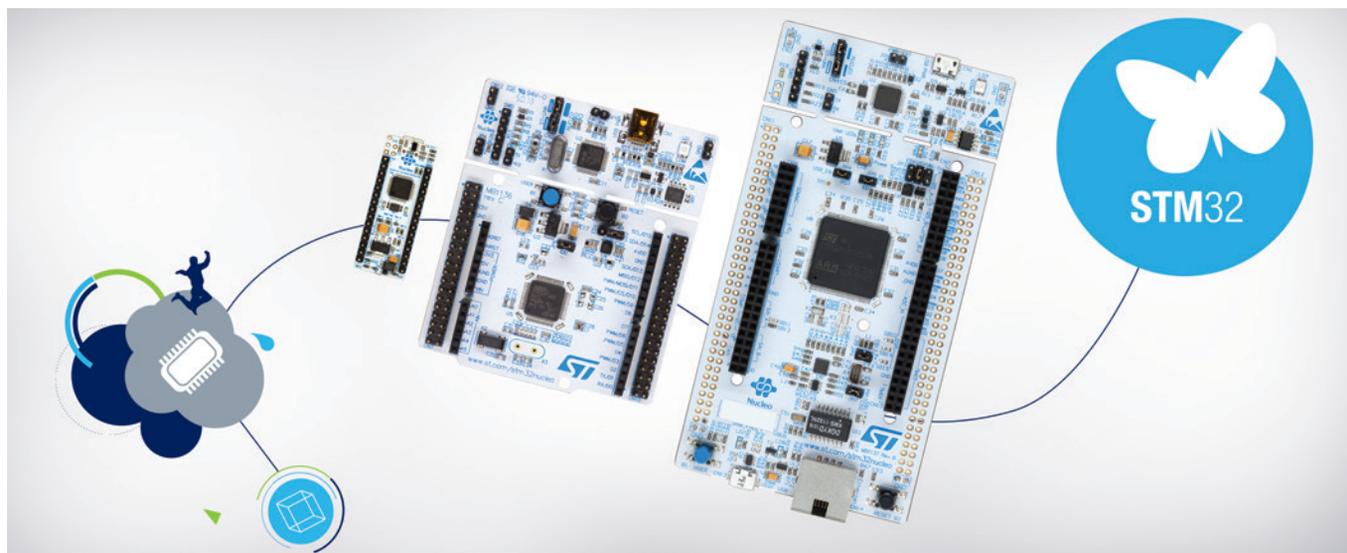




STM32 for makers

Releasing your creativity



ST offers a comprehensive ecosystem to ease the lives of developers and unleash the creativity of makers

Choose the world leader in ARM® Cortex®-M core microcontrollers.

Access the power of the STM32 MCU family for your maker project with ST's open development platform:

- Affordable and scalable development tools adapted to a large diversity of needs
- A comprehensive choice of free IDEs for all OSes
- Ready-to-use embedded software bricks



Mainstream



Ultra-low-power



High-performance

On your marks! Get set! Make!



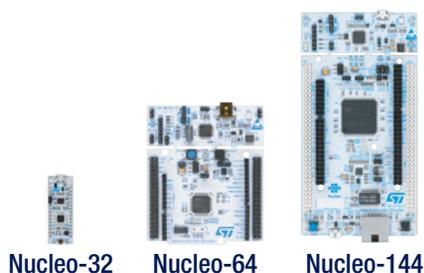
	STM32 Nucleo	STM32 MCU Discovery kits	STM32 Nucleo expansion boards	Third-party boards
	Flexible prototyping	Key feature evaluation	Sense, connect, move, power, translate	STAR OTTO
Connectors	Arduino ST morpho	Arduino (*) ST	Arduino	Arduino
mbed-enabled	Yes	Yes(*)	Yes(*)	No
Price (**)	\$10 to \$23	\$8 to \$50	< \$35	\$88
Website	www.st.com/stm32nucleo	www.st.com/stm32discovery	www.st.com/x-nucleo	www.arduino.org

(*) On selected boards

(**) Recommended

Make with STM32

STM32 NUCLEO DEVELOPMENT BOARDS



Key features

- STM32 microcontroller in 32-pin, 64-pin or 144-pin package
- On-board ST-LINK/V2-1 debugger/programmer:
 - Virtual com port
 - Mass storage
- Broad range of expansion possibilities 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

STM32 NUCLEO EXPANSION BOARDS

Few examples among a broad portfolio, available at www.st.com/x-nucleo

Bluetooth low energy



X-NUCLEO-IDB05A1

LoRa™ networking



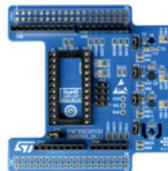
P-NUCLEO-LRWAN1
(Pack ST and Semtech)

Motor control



X-NUCLEO-IHM01A1

Motion & Environmental Sensing



X-NUCLEO-IKS01A1

Proximity, gesture and ambient light



X-NUCLEO-53L0A1

Wi-Fi networking



I-NUCLEO-ISmart
(by Inventek)

SOFTWARE TOOLS

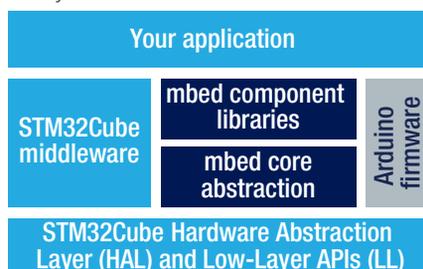
STM32CubeMX

Configure and generate code



EMBEDDED SOFTWARE

Ready-to-use embedded software bricks



Free partner IDEs

Code, compile and debug

ARM® mbed™	CoIDE	MDK-ARM (*)	System Workbench
Windows	Windows	Windows	Windows
OS X			OS X

Note: (*) Free licenses for STM32F0 and STM32L0 series

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All STM32 at your fingertips

