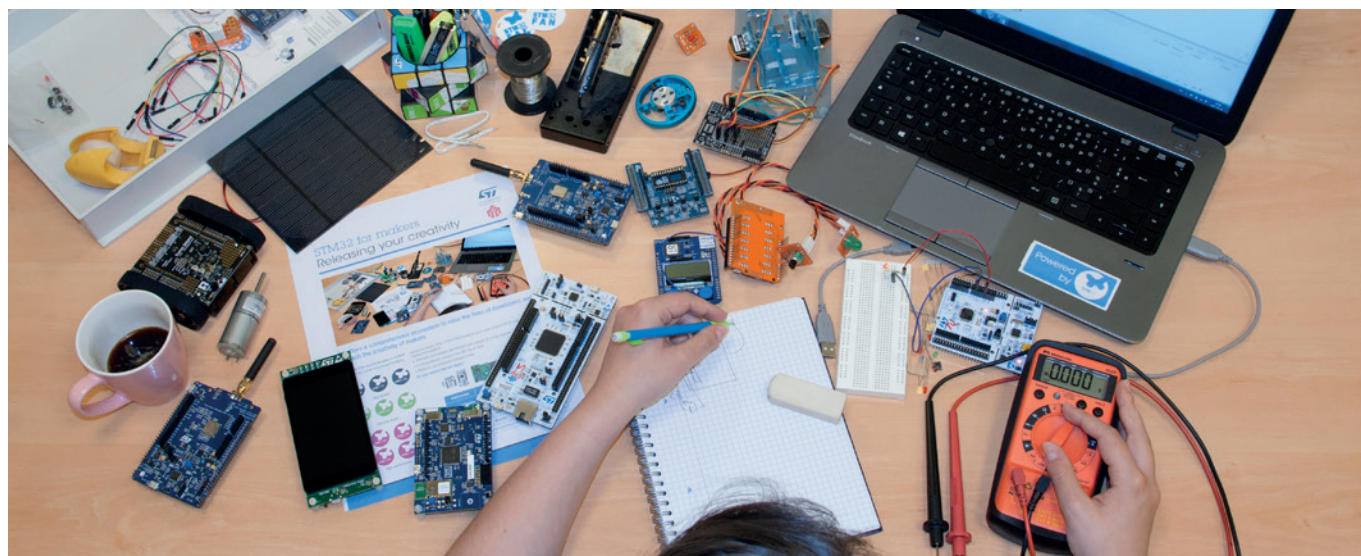




STM32 for makers

Releasing your creativity



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

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



High-performance



Mainstream



Ultra-low-power

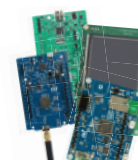


Wireless

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

On your mark! Get set! Make!



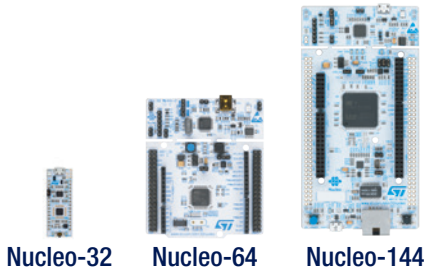
	STM32 Nucleo	STM32 MCU Discovery kits	STM32 Nucleo expansion boards
	Flexible prototyping	Key feature evaluation	Sense, connect, move, power, translate
Connectors	Arduino ST morpho	Arduino (*) ST / STMod+ (*)	Arduino
mbed-enabled	Yes	Yes(*)	Yes(*)
Price (**)	\$10 to \$23	\$8 to \$100	< \$35
Website	www.st.com/stm32nucleo	www.st.com/stm32discovery	www.st.com/x-nucleo

(*) On selected boards

(**) Recommended

Make with STM32

STM32 NUCLEO DEVELOPMENT BOARDS



Key features

- STM32 microcontroller in 32-, 64- 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 boards
 - Access to a wider range of peripherals through Zio connectors on Nucleo-144 boards
 - Access to all MCU pins through ST morpho connectors on Nucleo-64 and Nucleo-144 boards
 - Arduino Nano connectors on Nucleo-32

STM32 NUCLEO EXPANSION BOARDS

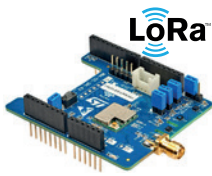
Here are a few examples from among a broad portfolio available at www.st.com/x-nucleo

Bluetooth low energy



X-NUCLEO-IDB05A1

LoRa™ networking



I-NUCLEO-LRWAN1 (by USI®)

Motor control



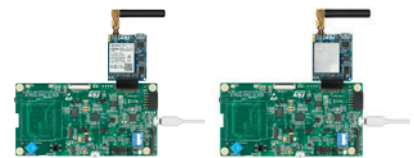
X-NUCLEO-IHM03A1

Motion & Environmental Sensing



X-NUCLEO-IKS01A2

Cellular to Cloud



P-L496G-CELL01*

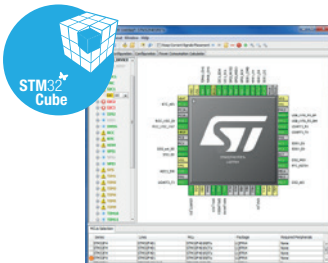
P-L496G-CELL02*

*Available in Q2-2018

SOFTWARE TOOLS

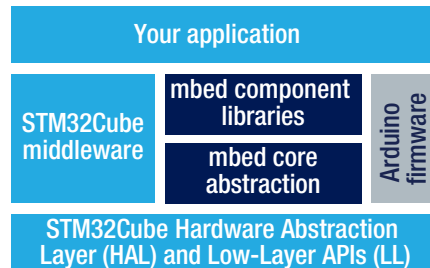
STM32CubeMX

Configure and generate code



EMBEDDED SOFTWARE

Ready-to-use embedded software bricks



Free IDE solutions

Code, compile and debug



Notes:

1. Free licenses for STM32F0 and STM32L0 series
2. Add STM32 boards support to Arduino IDE from community.st.com/stm32
3. Atollic and TrueSTUDIO are STMicroelectronics brands

STM32 DISCOVERY BOARDS

www.st.com/stm3214-discovery

Join the STM32 community !



STM32 Education : learn more



ST MCU Finder

Free mobile and desktop application to find the right STM32 MCU

