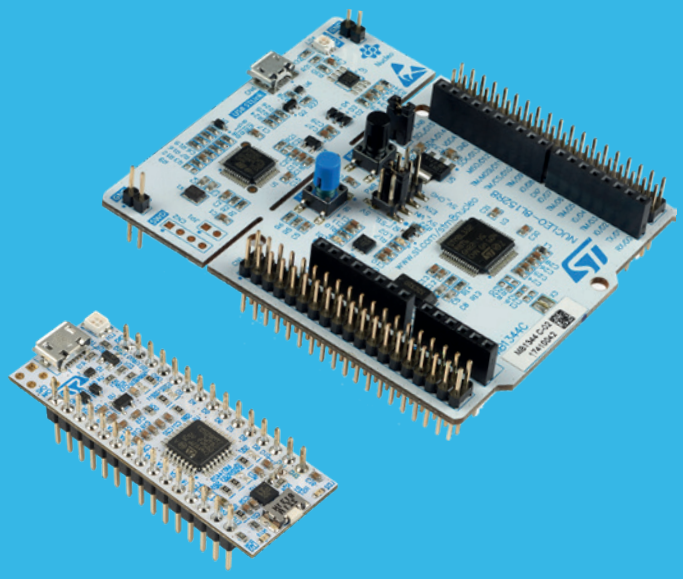
STM8 NUCLEO BOARDS

life.augmented

Unified scalable offering



Open STM8 development platform for flexible prototyping

The highly affordable Nucleo boards allow anyone to try out new ideas and to quickly create prototypes with any STM8 or STM32 MCU.

STM8 Nucleo boards facilitate developments with two form factors, Nucleo-32 and Nucleo-64, which 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-64, and Arduino Nano connectors on Nucleo-32.

Each STM8 Nucleo board integrates an STLink debugger/programmer, which eliminates any need for a separate probe. Support for convenient features such as drag-and-drop Flash programming accelerates design iterations.

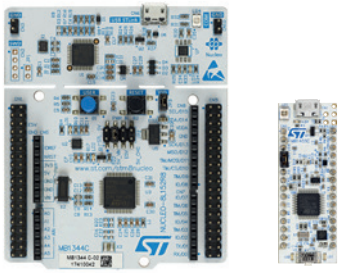
Engineering teams can simply reuse the same subsystems, which will help them save costs, reduce development risks, since they are already familiar with the expansions they will stack on top of the STM8 Nucleo boards.

KEY FEATURES & BENEFITS

- Includes one STM8 microcontroller in a 32-pin or 64-pin package.
- On-board STLink debugger/programmer :
  - Virtual com port
  - Mass storage
- Wide extension capabilities with specialized shields :
  - Arduino Uno rev3 connectors on Nucleo-64
  - Access to all MCU pins through ST morpho connectors on Nucleo-64
  - Arduino Nano connectors on Nucleo-32
- Supported by Cosmic free IDEA, IAR EWSTM8, ST free STVD IDEs

www.st.com/stm8nucleo

STM8 NUCLEO DEVELOPMENT BOARDS



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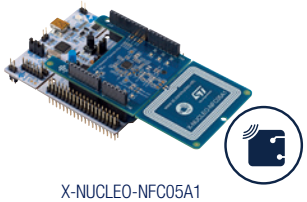
STM8 NUCLEO EXPANSION BOARDS

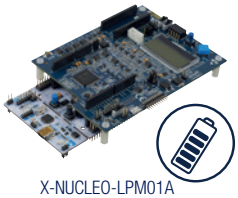
Unlimited possibilities

STM8 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 STM8 family.



X-NUCLEO-NFC05A1

Adafruit LCD ID802



X-NUCLEO-LPM01A

www.st.com/x-nucleo

Embedded software

STM8 Nucleo boards are supported with a variety of software examples available in the demo resources section of each Nucleo webpage on www.st.com/stm8nucleo
The software component for the NFC expansion board is available in the tools & software section of the NUCLEO-8S208RB webpage at www.st.com

Software tools

STM8 CubeMX

STM8CubeMX is a graphical tool that allows configuring STM8 microcontrollers very easily and generating the corresponding configuration reports.

- Intuitive STM8 microcontroller selection
- Microcontroller graphical configuration:
- Pinout with automatic conflict resolution
- Clock tree with dynamic configuration validation
- Power sequence with estimate of consumption results
- Configuration report generation

STM32 CubeMonitor-Power

Monitoring tool that help developpers fine-tune the dynamic power consumption of their applications Graphical tool displaying on PC power data coming from X-NUCLEO-LPM01A.

STM8 NUCLEO PORTFOLIO