

STM32 Nucleo-32 Open development platform

Q4'2015





STM32 Nucleo key assets 2







Unlimited expansion capabilities

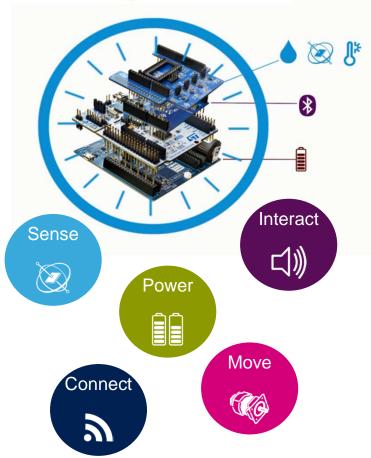
Simply expose the whole STM32 portfolio to the communities







Association with shields 3



Specialized functionality add-on

Smooth integration with STM32Cube software library

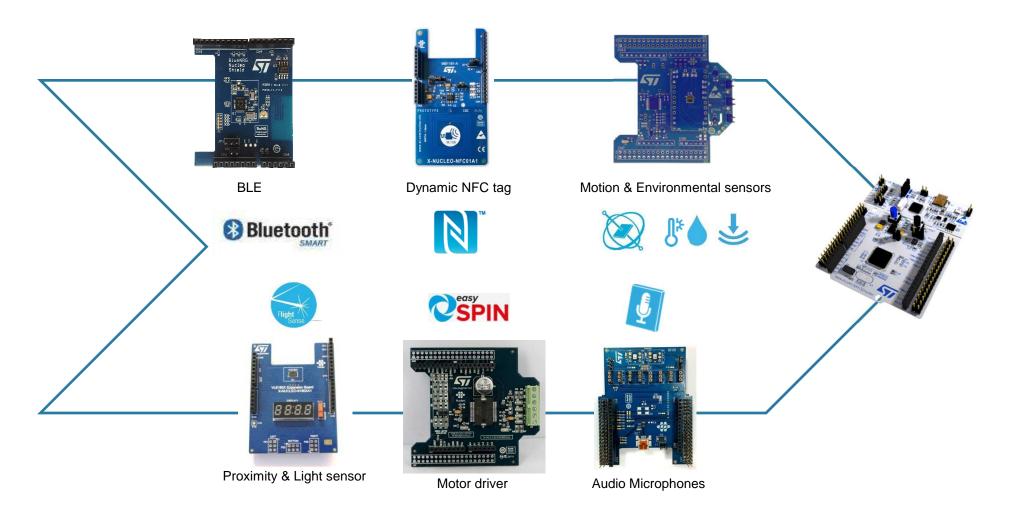
Multiple IDE support

Simply scalable: no limit to possibilities





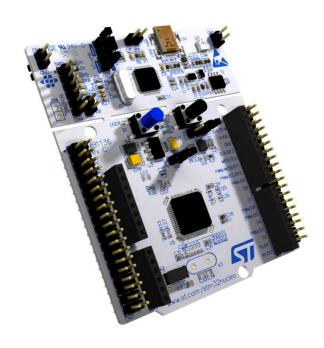
Nucleo expansion boards



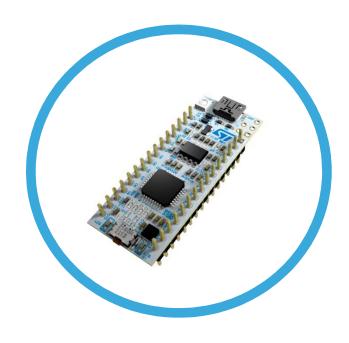




Introducing STM32 Nucleo-32 5



Nucleo-64 STM32 with 64 pins

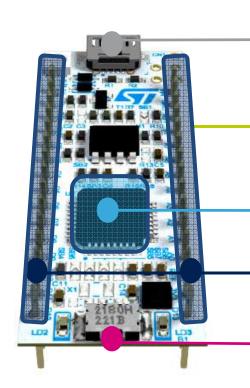


Nucleo-32 STM32 with 32 pins





STM32 Nucleo-32 features



Flexible board power supply: through USB or external source

Integrated ST-Link/V2-1: drag & drop device flash programming

One STM32 MCU flavor with 32 pins

Arduino Nano extension connectors: easy access to add-ons

Push button, 2 color Leds

Much smaller size for more choice







High Performance



STM32 Nucleo portfolio







F401RE F411RE









F103RB



Mainstream



F302R8 F334R8











F031K6



F030R8

F070RB F072RB

F091RC

256K

Ultra low-power



L053R8

32K 64K

128K

L152RE

512K 1024K

L476RG

Flash size

STM32 Nucleo exposes the whole family of STM32 microcontrollers



STM32Nucleo open development platform

HW SW



Expansion











STM32 Nucleo development boards

STM32

Nucleo

STM32 Cube **SW** library STM32 Nucleo expansion boards (Nucleo shields)

STM32 Cube expansion SW

Multi-IDE support























Free software development tools



Eclipse-based toolset SW4STM32

Download at www.openSTM32.org









Online development & community

Access at www.mbed.org











Premium toolset MDK-ARM

Download at www.keil.com/st

Free licenses for STM32F0 & STM32L0 (no code size limitation)







New product references

Part number	Mass Market Availability	STM32 MCU reference
NUCLEO-F031K6	Now	STM32F031K6T6
NUCLEO-F042K6	Now	STM32F042K6T6
NUCLEO-F303K8	Now	STM32F303K8T6
NUCLEO-L0	Q1'2016	STM32L0
NUCLEO-L4	Q1'2016	STM32L4









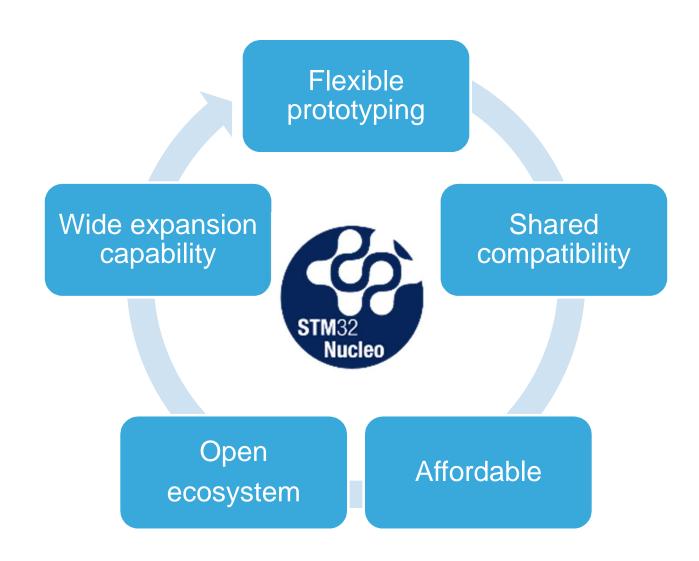




Order entry is opened



STM32 Nucleo value proposition 11





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Releasing your creativity

with the STM32





www.st.com/stm32