

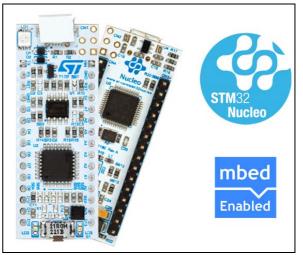
# NUCLEO-XXXXKX

### STM32 Nucleo-32 board

#### Data brief

### Features

- STM32 microcontrollers in 32-pin packages
- extension with Arduino<sup>™</sup> nano connectivity
- mbed-enabled (http://mbed.org)
- on-board ST-LINK/V2-1 debugger/programmer
- USB reenumeration capability: three different interfaces supported on USB:
  - Virtual Com port
  - mass storage
  - debug port
- flexible board power supply:
  - USB VBUS
  - external source
- three LEDs:
  - USB communication (LD1), power LED (LD2), user LED (LD3)
- reset push button
- supported by wide choice of Integrated Development Environments (IDEs) including IAR<sup>™</sup>, Keil<sup>®</sup>, GCC-based IDEs (AC6 SW4STM32, ...)



1. Picture not contractual

### Description

The STM32 Nucleo-32 board provides an affordable and flexible way for users to try out new concepts and build prototypes with any STM32 microcontroller line in 32-pin packages, choosing from the various combinations of performance, power consumption and features. The Arduino<sup>™</sup> nano connectivity makes it easy to expand the functionality of the STM32 Nucleo open development platform with a choice of specialized shields. The STM32 Nucleo-32 board does not require any separate probe as it integrates the ST-LINK/V2-1 debugger/programmer.The STM32 Nucleo-32 board comes with the STM32 comprehensive software HAL library together with various packaged software examples, as well as direct access to mbed online resources.

#### Table 1. Device summary

Reference	Part number
NUCLEO-XXXXKX	NUCLEO-F031K6, NUCLEO-F042K6, NUCLEO-F303K8

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For further information contact your local STMicroelectronics sales office.

## **1** Ordering information

Table 2 lists the order codes and the respective targeted MCU.

Table	2.	Ordering	information
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Order code	Targeted MCU
NUCLEO-F031K6	STM32F031K6T6
NUCLEO-F042K6	STM32F042K6T6
NUCLEO-F303K8	STM32F303K8T6

The meaning of NUCLEO-TXXXKY codification is as follows:

- TXXX describes the STM32 MCU product line (T for F or L)
- K describes the pin count (K for 32 pins)
- Y describes the code size (6 for 32K, 8 for 64K)

The order code is printed on a sticker, placed at the top or bottom side of the board.



# 2 Revision history

Date	Revision	Changes
08-Sep-2015	1	Initial release.



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