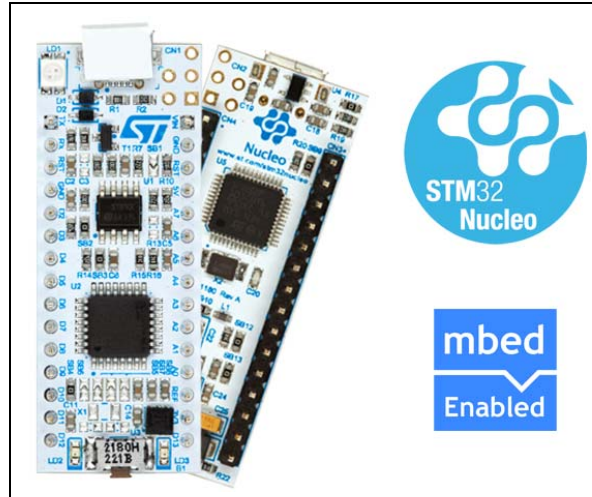


Features

- STM32 microcontrollers in 32-pin packages
- extension with Arduino™ 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™, Keil®, 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™ 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

1 Ordering information

[Table 2](#) lists the order codes and the respective targeted MCU.

Table 2. Ordering information

Order code	Targeted MCU
NUCLEO-F031K6	STM32F031K6T6
NUCLEO-F042K6	STM32F042K6T6
NUCLEO-F303K8	STM32F303K8T6

The meaning of NUCLEO-TXXXXY 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

Table 3. Document revision history

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

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