

# STM32C0 MCU SERIES

# Entry-level 32-bit MCU for cost-sensitive applications



#### Your next 8-bit MCU is a 32-bit!

The STM32C0, ST's most affordable 32-bit MCU, makes 32-bit capabilities accessible to all developers.

Bridging the gap between 8- or 16-bit MCUs and higher performance 32-bit MCUs, the STM32C0 provides access to the benefits of STM32 designs. Powered by the industry-standard Arm® Cortex®-M0+ core running at 48 MHz, the STM32C0 lets developers do more with less.

- For developers working with 32-bit MCUs, the STM32C0 offers an entry-level solution that leaves room for future product upgrades to the STM32G0 series or other STM32 MCUs.
- For designers developing applications usually served by 8-bit or 16-bit MCUs, the STM32C0 allows you to upgrade your design, with a limited impact on your cost structure and additional support thanks to a proven STM32 ecosystem.

The STM32C0 series offers up to 256 Kbytes of flash memory, and 36 Kbytes of RAM. It is available in a variety of 8- to 64-pin packages, including the tiny 3x3 mm UFQFPN20 package and WLCSP 12-pin to 24-pin packages.

#### **KEY FEATURES & BENEFITS**

- Affordability: helps you reduce costs thanks to an attractive price point and an optimized BOM
- Reliability: benefits from proven STM32 quality & reliability
- Continuity: offers a consistent pinout with STM32G0 and shares the same technology platform

## **KEY APPLICATIONS**

- Smart homes
- Industrial devices
- Consumer devices

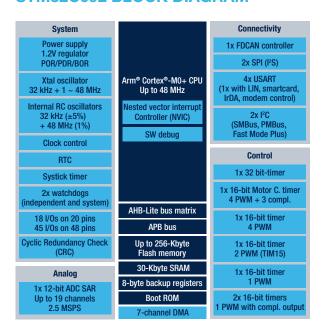








#### STM32C092 BLOCK DIAGRAM



#### **HARDWARE TOOLS**

A full set of development boards enables flexible prototyping as well as full STM32C0 evaluation.

NUCLEO-C092BC NUCLEO-C071RB NUCL FO-C051C8 NUCLEO-C031C6

**Prototyping boards** 





STM32C0116-DK

Wired sample board



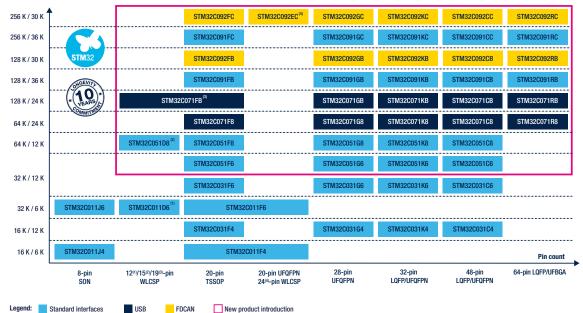
STM32C0316-DK

Mini evaluation board



#### STM32C0 PORTFOLIO





## **START DEVELOPING NOW!**

More than 1 million developers have chosen STM32Cube, making it the reference in the industry.

STM32CubeC0 firmware package



STM32C0 Online training



STM32C0 Product selector





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