RM0090
Reference manual

STM32F405/415, STM32F407/417, STM32F427/437 and STM32F429/439 advanced Arm®-based 32-bit MCUs

Introduction

This reference manual targets application developers. It provides complete information on how to use the STM32F405xx/07xx, STM32F415xx/17xx, STM32F42xxx and STM32F43xxx microcontroller memory and peripherals.

The STM32F405xx/07xx, STM32F415xx/17xx, STM32F42xxx and STM32F43xxx constitute a family of microcontrollers with different memory sizes, packages and peripherals.

For ordering information, mechanical and electrical device characteristics please refer to the datasheets.

For information on the Arm® Cortex®-M4 with FPU core, please refer to the *Cortex®-M4 with FPU Technical Reference Manual*.

The STM32F405xx/07xx, STM32F415xx/17xx, STM32F42xxx and STM32F43xxx microcontrollers include ST state-of-the-art patented technology.

Related documents

Available from STMicroelectronics web site (*www.st.com*):

- STM32F40x and STM32F41x datasheets
- STM32F42x and STM32F43x datasheets
- STM32F40x and STM32F41x errata sheets
- STM32F42x and STM32F43x errata sheets
- For information on the Arm® *Cortex®*-M4 with FPU*, refe*r to the *STM32F3xx/F4xxx Cortex®*-M4 with FPU *programming manual (PM0214).*

Contents