

## Introduction

This programming manual provides information for application and system-level software developers. It gives a full description of the STM32F3xxx and F4xxx Cortex™-M4 processor programming model, instruction set and core peripherals.

The STM32F3xxx and F4xxx Cortex™-M4 processor is a high performance 32-bit processor designed for the microcontroller market. It offers significant benefits to developers, including:

- Outstanding processing performance combined with fast interrupt handling
- Enhanced system debug with extensive breakpoint and trace capabilities
- Efficient processor core, system and memories
- Ultra-low power consumption with integrated sleep modes
- Platform security

This programming manual applies to the products and tools listed in [Table 1](#).

**Table 1. Applicable products and tools**

| Type             | Part numbers  |
|------------------|---|
| Microcontrollers | STM32F3 Analog & DSP<br>STM32F3xxx<br>STM32F4 Hi-Performance & DSP<br>STM32F4xxx          |
| Evaluation tools | STM32F3DISCOVERY<br>STM32F4DISCOVERY<br>STM32303C-EVAL<br>STM32373C-EVAL<br>STM3240G-EVAL |

Related documents for further reading on STM32F4xxx and STM32F3xxx implementations are available from the STMicroelectronics web site (<http://www.st.com>):

- STM32F3xxx, STM32F40x and STM32F41x datasheets
- STM32F40x and STM32F41x reference manual (RM0090)
- STM32F37x/38x and STM32F30x/31xx reference manuals (RM0313 and RM00316)

# Programming Manual

**Ying Liu**



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