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 STM32F3xxx STM32F4 Hi-Performance & DSP STM32F4xxx
Evaluation tools	STM32F3DISCOVERY STM32F4DISCOVERY STM32303C-EVAL STM32373C-EVAL 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)

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