
Cortex-M series processors

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ARM documentation set for the ARM Cortex-M series of processors, including the ARM Cortex-M0, ARM Cortex-M0+, ARM Cortex-M1, ARM Cortex-M3, and ARM Cortex-M4 processors.

The ARM Cortex-M Series is a family of deeply embedded processors optimized for cost sensitive applications. These processors support the Thumb instruction set only.

- **The Cortex-M System Design Kit** contains a collection of AMBA infrastructure components, baseline peripherals and example system designs to help accelerate the development of Cortex-M based systems.
- **The ARM Cortex-M4 processor** is a low-power processor that features low gate count, low interrupt latency, and low-cost debug. The Cortex-M4F is a processor with the same capability as the Cortex-M4 processor, and includes floating point arithmetic functionality. These processors are intended for applications requiring digital signal processing functionality.
- **The ARM Cortex-M3 processor** is a low-power processor that features low gate count, low interrupt latency, and low-cost debug. It is intended for deeply embedded applications that require fast interrupt response, including microcontrollers and automotive and industrial control systems.
- **The ARM Cortex-M1 FPGA processor** is intended for deeply embedded applications that require a small processor integrated into an FPGA.
- **The ARM Cortex-M0+ processor** is a very low gate count, highly energy efficient processor that is intended for microcontroller and deeply embedded applications that require an area and power consumption optimized processor, with a rich set of configuration options.
- **The ARM Cortex-M0 processor** is a very low gate count, energy efficient processor that is intended for microcontroller and deeply embedded applications that require an area optimized processor.



Contents



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