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NN and Ethos-U55 | Arm

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(SysTick) *Architecture /*

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ARM Cortex-M4 Technical Reference Manual (TRM). This guide contains documentation for the Cortex-M4 processor, the programmer's model, instruction set, registers, memory map, floating point,

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multimedia, trace and debug support. Components include ETM, MPU, NVIC, FPB, DWT, ITM, AHB, TPIU, VFP.

Cortex-M4 Technical

Reference Manual - ARM

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contains documentation for
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A pulse interrupt is a

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You must ensure that the pulse is sampled on the rising edge of the Cortex-M4 clock, FCLK, instead of being asynchronous. For level interrupts, if the signal is not deasserted

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Before the return from the interrupt routine, the interrupt again enters the pending state and re-activates.

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Developer

ARM's developer website includes documentation, tutorials, support resources and more. ... Cortex-M4 Technical Reference Manual Floating Point Unit FPU Functional Description Modes

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The Cortex-M4 processor is a

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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

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Manual
functionality (see Chapter 7
Floating Point Unit). Both
processors are intended for
deeply embedded applications
that require fast interrupt
response features.

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contains a reference design
based on the Cortex-M3
processor and other system
IP components for building a
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Kit which provides the fundamental system elements to design an SoC around Arm processors.

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Processor Refers to the

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Cortex-M4 processor, as supplied by ARM. Device Refers to an implemented device, supplied by an ARM partner, that incorporates a Cortex-M4 processor. In particular, your device refers to the particular

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Manual
Implementation of the Cortex-
M4 that you are using. Some
features of your

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The Cortex-M4F processor is
a Cortex-M4 processor that
includes the optional FPU.

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Manual In this chapter, the generic term processor means only the Cortex-M4F processor.

*Cortex-M4 Technical
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Floating ...*

ARM's developer website

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Manual includes documentation, tutorials, support resources and more. Over the next few months we will be adding more developer resources and documentation for all the products and technologies that ARM provides.

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Glossary. This glossary describes some of the terms used in technical documents from ARM. Abort. A mechanism that indicates to a core that the attempted memory access is invalid or not allowed or that the data

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Manual returned by the memory
access is invalid. An abort
can be caused ...

Cortex-M4 Technical

Reference Manual: Glossary

In this manual, in general:

† any reference to the

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Manual processor applies to either the Cortex-M4 processor or the Cortex-M4F processor, as appropriate † any reference to the Cortex-M4 processor applies also to the Cortex-M4F processor, as appropriate. The context

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Manual makes it clear if
information applies to only
one of the processor
options.

CoreSight ETM -M4 - ARM

The ARM Cortex-M is a group
of 32-bit RISC ARM processor

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cores licensed by Arm Holdings. These cores are optimized for low-cost and energy-efficient microcontrollers, which have been embedded in tens of billions of consumer devices. The cores consist

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of the Cortex-M0, Cortex-M0+, Cortex-M1, Cortex-M3, Cortex-M4, Cortex-M7, Cortex-M23, Cortex-M33, Cortex-M35P, Cortex-M55.

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