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Using ST's ART Flash accelerator the STM32 F4 provides best flash performance of any Cortex-M product.

However, the true power of the STM32 F4 comes from its ease of use and integration. With 1 MB Flash and 192 KB SRAM for the handling of advanced software stacks and user information, 4KB back-up SRAM the STM32 F4 does not need to resort to any external memory.

STM32 F4 Series Cortex M4 MCUs STM32F401, F405/415, F407 ...

The STM32 F4 series MCUs include devices with 512KB to 1MB of on-chip Flash memory, 192KB of SRAM, and 15 communication interfaces.

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It also comprises the STM32CubeF4 MCU Package composed of the STM32Cube hardware abstraction layer (HAL) and the low-layer (LL) APIs, plus a consistent set of middleware components (RTOS, USB, FAT file system, Graphics and TCP/IP). TouchGFX graphic software stack is also included in the STM32CubeF4 MCU Package as a part of the STM32Cube ecosystem.

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The STM32 F4-series is the first group of STM32 microcontrollers based on the ARM Cortex-M4F core. The F4-series is also the first STM32 series to have DSP and floating-point instructions. The F4 is pin-to-pin compatible with the STM32 F2-series and adds higher clock speed, 64 KB CCM static RAM, full-duplex I²S, improved real-time clock, and faster ADCs.

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STM32F7 series of very high-performance MCUs with Arm ® Cortex ®-M7 core. Taking advantage of ST's ART Accelerator™ as well as an L1 cache, STM32F7 microcontrollers deliver the maximum theoretical performance of the Cortex-M7 core, regardless if code is executed from embedded Flash or external memory: 1082 CoreMark /462 DMIPS at 216 MHz f CPU.. Smart architecture with new peripheral set

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