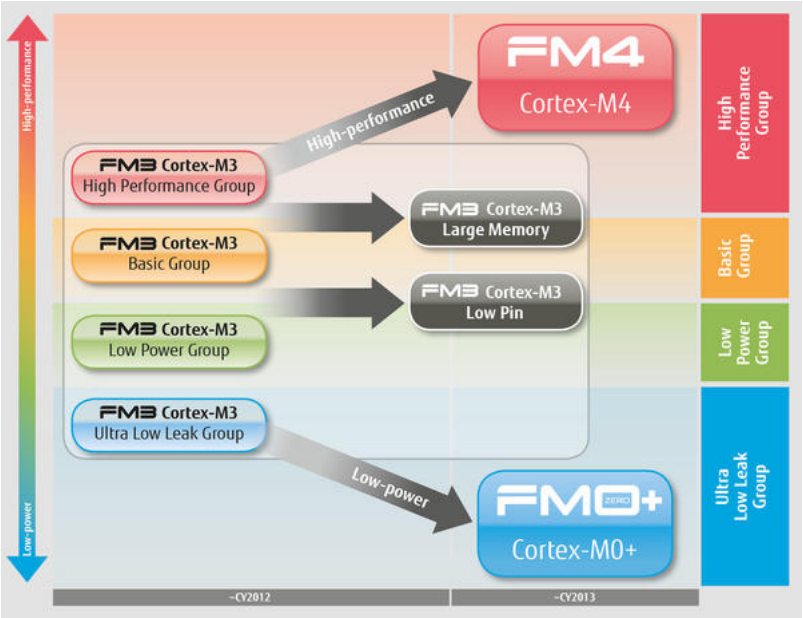
# General-purpose, 32-bit MCU lineup expands with latest ARM cores




Fujitsu Semiconductor America introduced a new FM4 family of 32-bit general purpose RISC microcontrollers based on the ARM Cortex-M4 processor core, featuring DSP and floating point (FPU) functions. In addition, the company is introducing a new FM0+ family of devices based on the Cortex-M0+ core.  The Fujitsu FM3 family now includes 463 products. With the introduction of the FM4 and FM0+ families, the company will offer more than 700 ARM-based devices. The new FM4 family covers the highest end of the product range with DSP and FPU capabilities not available in the FM3 family. All products in the FM4 family will be equipped with the FPU, along with SDRAM and SD card interface functions. The FM4 Series also features an expanded variety of packaging options as well as a wide range of timers and serial communications functions. The devices integrate high-quality and reliable flash memory technology. The FM0+ family of energy-efficient models employs a Cortex-M0+ core and features the peripheral functions of the FM3 family, all delivered with high-quality flash memory technology. Compared with the previous Cortex-M0 core, the Cortex-M0+ core is said to achieve 10 percent improved processing performance while consuming just two-thirds of the power. Functions that reduce power consumption are built into the microcontrollers, enabling the FM0+ family to target an operating current of 70 µA/MHz and a standby current of just 0.7 µA (in RTC mode). The low power consumption makes the new MCUs appropriate for portable devices.

**Fujitsu Semiconductor America**
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