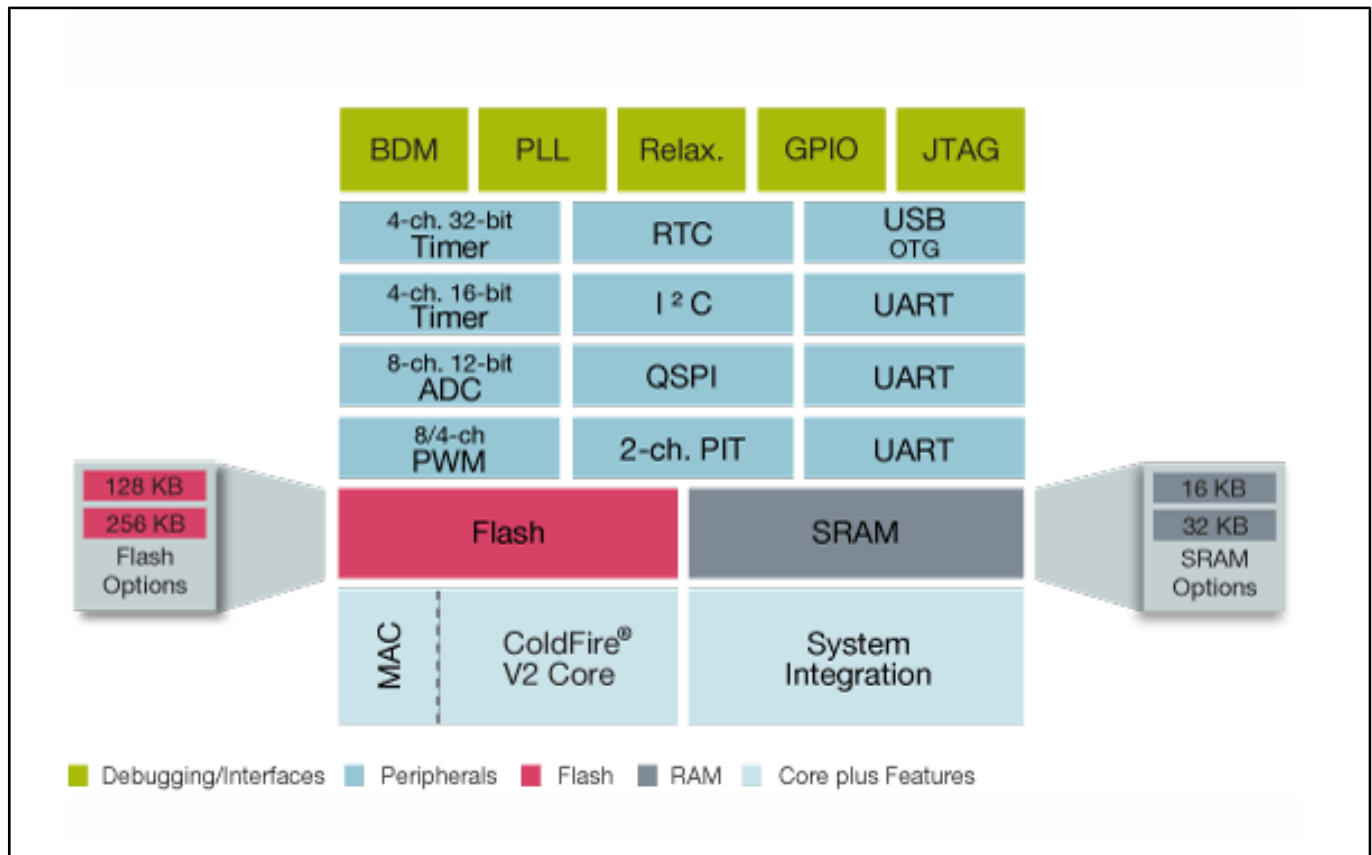# 32-Bit Microcontrollers with USB

MCF5222X

Last Updated: Jan 8, 2026

Built on the ColdFire® V2 core, the MCF5222x family offers up to 76 MIPS (Dhrystone 2.1) at 80 MHz. It builds on the successful MCF5213 family by integrating a USB host and on-the-go (OTG) controller, making it ideal for applications requiring device or host connectivity functionality. The MCF5222x microcontrollers are aimed at designers who want the power and flexibility of a 32-bit microcontroller plus a rich set of on-chip peripherals at a low cost. These small, highly integrated microcontrollers open the door to expanding application capabilities while driving down total system costs.

The MCF5222x family targets embedded control applications such as industrial control, home/factory automation, point-of-sale, health care-related and testing equipment, as well as consumer applications.

The MCF52223 is pin-to-pin compatible with the MCF52221 (in like packages) and adds 16 KB of SRAM and an extra 128 KB of flash to the standard MCF5222x peripheral set.

ColdFire MCF5222X Microcontroller Block Diagram Block Diagram

View additional information for 32-Bit Microcontrollers with USB.

Note: The information on this document is subject to change without notice.