



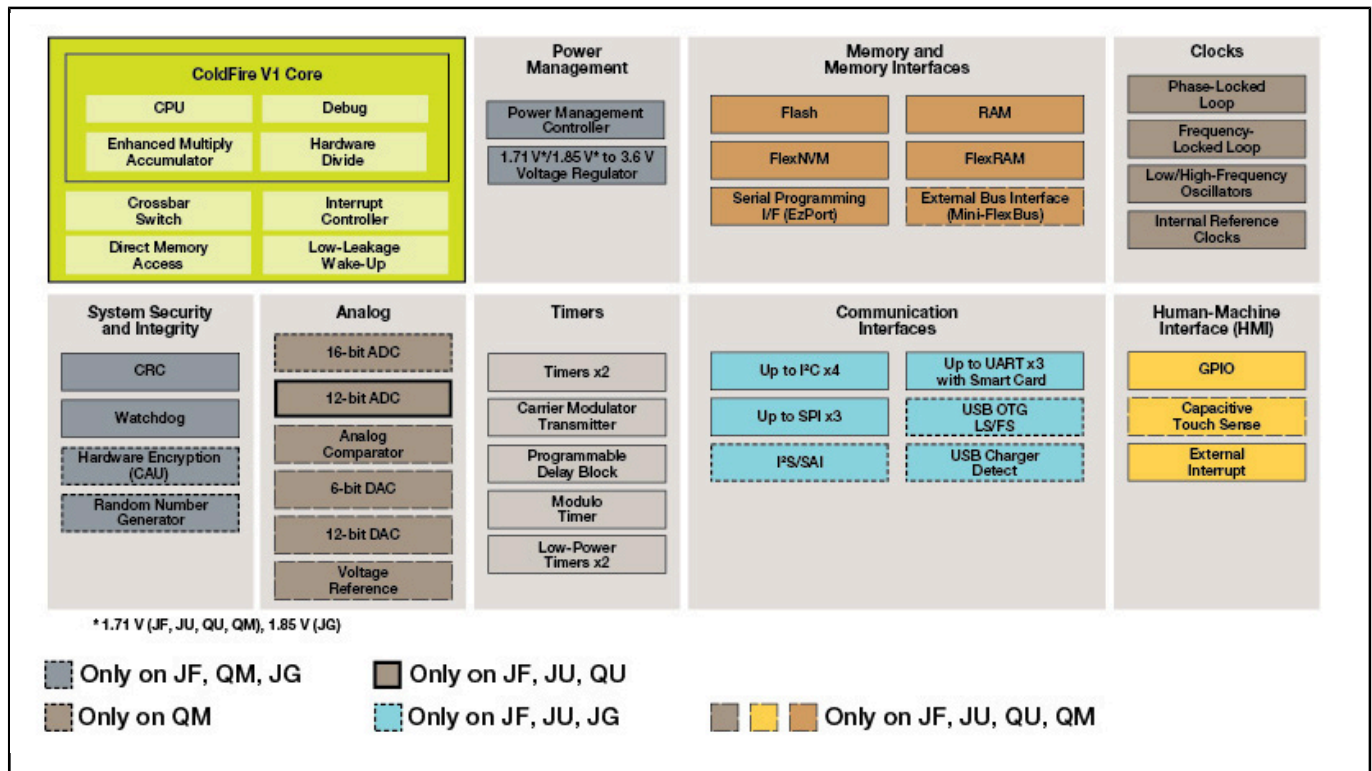
ColdFire+ Jx Family

MCF51Jx

Last Updated: Jan 8, 2026

The ColdFire+® MCF51Jx portfolio is defined by three families that scale from 32 KB to 256 KB of flash with innovative FlexMemory, configurable embedded EEPROM. Featuring ultra-low-power capabilities in small 5 x 5 mm footprint packages, the MCF51Jx family also offers a rich combination of peripherals including USB on-the-go (OTG), a serial audio interface, high-accuracy analog, hardware encryption, an integrated touch-sensing interface and more. These features make the 32-bit MCU a highly integrated, cost-effective 32-bit solution for consumer and industrial applications. To maximize code re-use and shorten development time and investment, several of the ColdFire+ families are software and pin compatible. The ColdFire+ MCF51JF and MCF51JU families are software and pin compatible with each other as well as the ColdFire+ MCF51QF, MCF51QU, MCF51QH and MCF51QM families.

ColdFire MCF51Jx/Qx Block Diagram Block Diagram



View additional information for [ColdFire+ Jx Family](#).

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

www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2026 NXP B.V.