MCX C15 and MCX C16 MCUs with Arm® Cortex®-M23

MCX-C15-C16

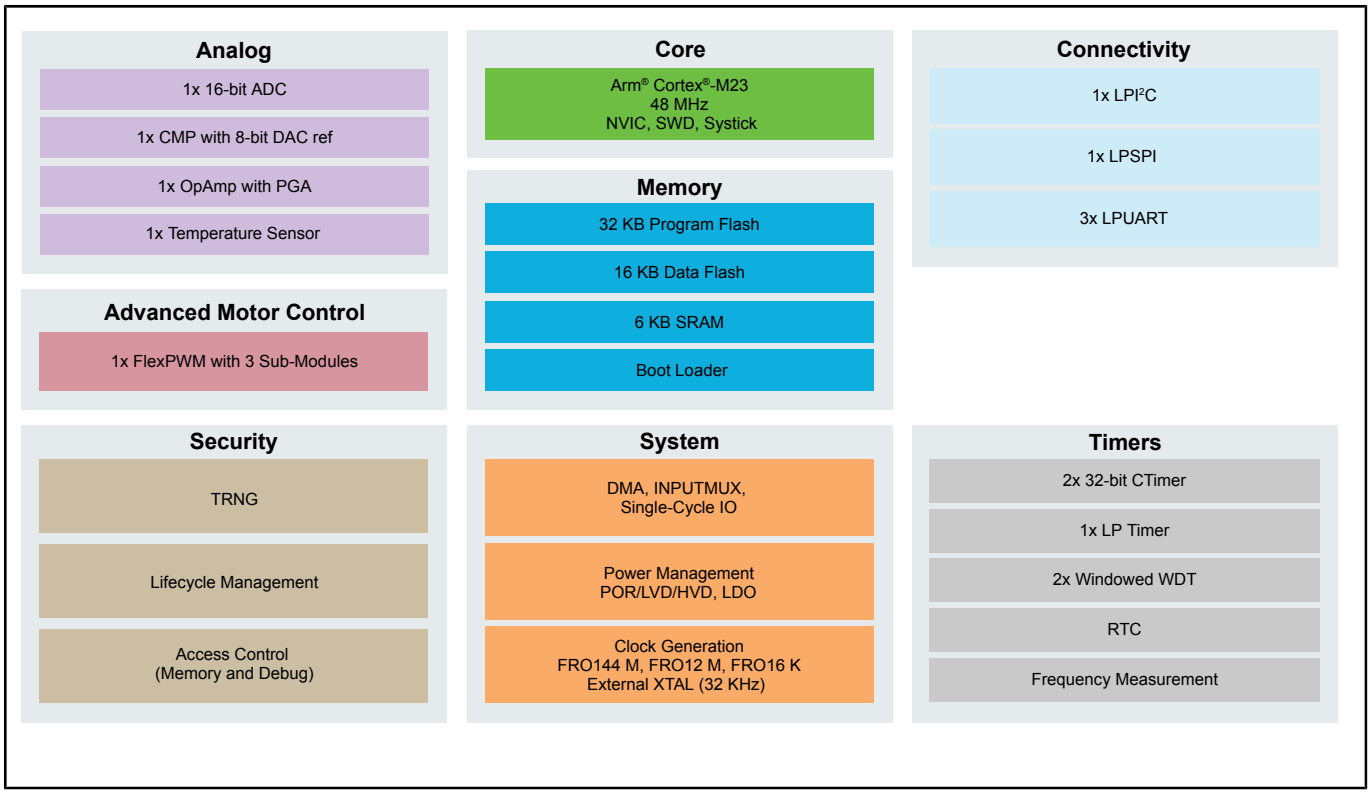
Active

Last Updated: Sep 1, 2026

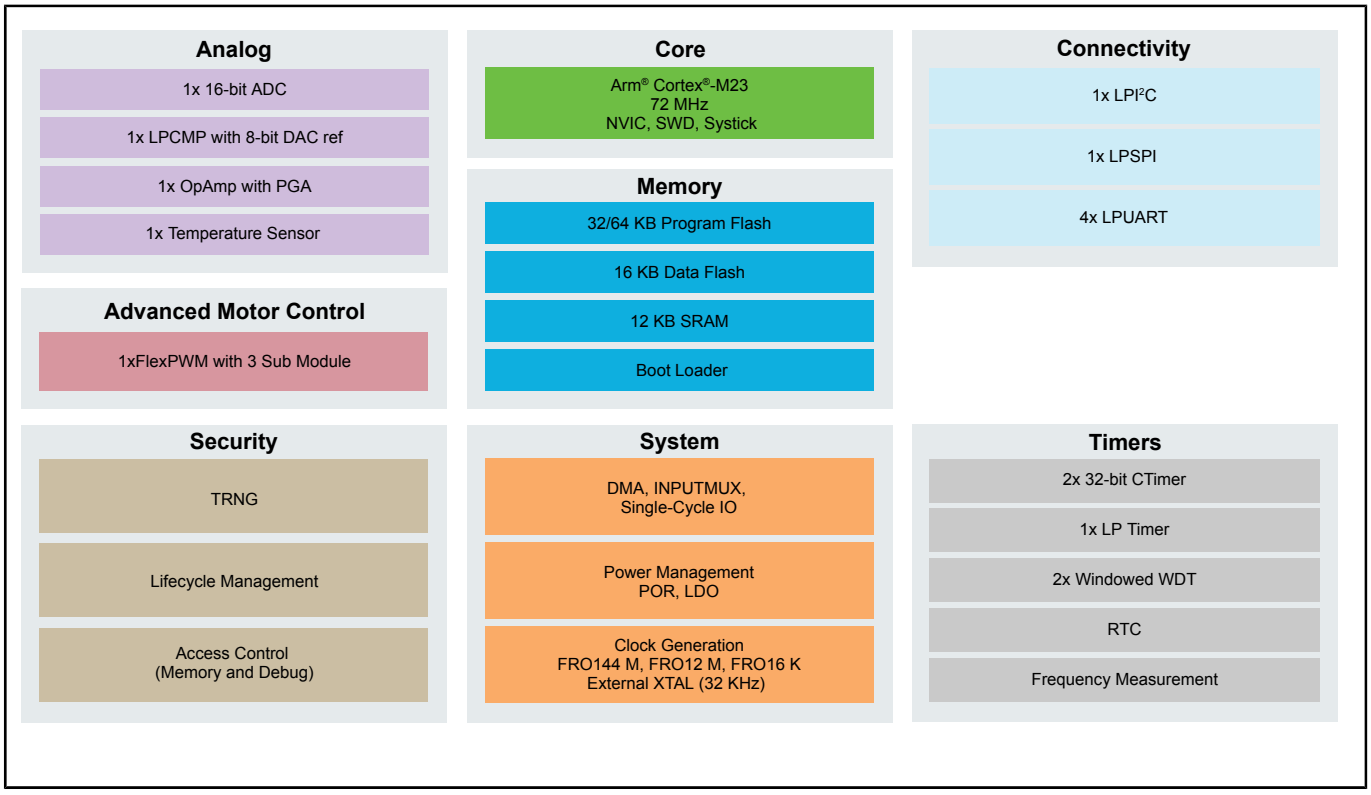
Start your next MCX design with confidence, backed by NXP's resilient manufacturing strategy and dependable product availability.
The MCX C15 and MCX C16 microcontrollers (MCUs) are low#cost, entry#level devices featuring an Arm® Cortex®#M23 core running at up to 72 MHz, with memory configurations offering up to 64 KB of flash memory and 16 KB of static random#access memory (SRAM). These devices bring precision analog and control peripherals into the low#cost, entry#level MCU class, making advanced features—such as a 16#bit analog#to#digital converter (ADC), comparator with digital#to#analog converter (DAC) and flexible pulse#width modulation (FlexPWM) for motor control—accessible to cost#sensitive IoT applications.

Designed as an upgrade path from legacy 8#bit and 16#bit MCUs, as well as devices based on Arm Cortex#M0+ cores, this entry#level 32#bit MCU series delivers higher performance and greater scalability without increasing costs. Simple migration paths from widely used LPC800, LPC1100 and Kinetis MCUs—along with pin#to#pin compatible options within the newer MCX A Series—enable a seamless transition across the NXP MCU portfolio.

MCX C151 Block Diagram



MCX C161/162 Block Diagram



View additional information for MCX C15 and MCX C16 MCUs with Arm® Cortex®-M23.

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.