



MCX A36 Mixed-Signal MCU Arm® Cortex®-M33 240 MHz with Security and Rich Analog Peripherals

MCX-A36 NEW

Preproduction

本页介绍的产品处于样品阶段。此处的产品技术规格和信息如有变更，恕不另行通知。如需了解更多信息和样品供货情况，请联系恩智浦 支持服务或恩智浦当地销售人员。

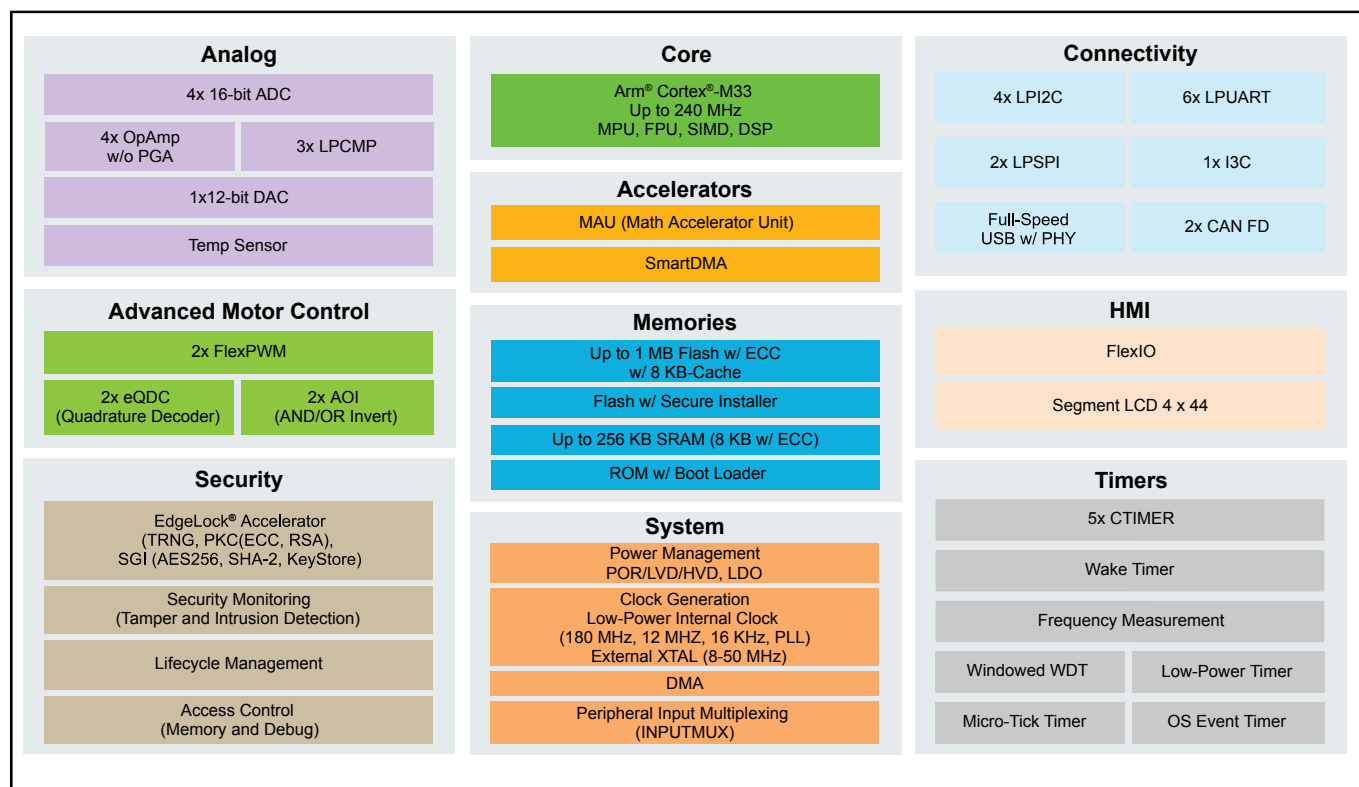
Last Updated: Jan 5, 2026

The MCX A36 family of microcontrollers is optimized for motor control applications and includes a Math Accelerate Unit (MAU) for enhanced performance. It features two flexible pulse width modulators (FlexPWM) submodules—including AND/OR invert (AOI)—supporting up to four 16-bit analog-to-digital-converters (ADCs) and a rich set of serial interfaces. Additionally, smart direct memory access (SmartDMA) and flexible input/output (FlexIO) provide versatile peripheral integration for advanced designs.

The MCX A365 and A366 devices deliver high-performance motor control capabilities, operating at speeds up to 240 MHz with up to 1 MB of Flash memory, 256 kB of RAM and integrated security features.

These devices are supported by the MCUXpresso Developer Experience to simplify development, optimize workflows and accelerate embedded system design.

MCX A365 and A366 MCUs Block Diagram



View additional information for [MCX A36 Mixed-Signal MCU Arm® Cortex®-M33 240 MHz with Security and Rich Analog Peripherals](#).

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.