i.MX RT1024: Crossover MCU with Arm® Cortex®-M7

i.MX-RT1024

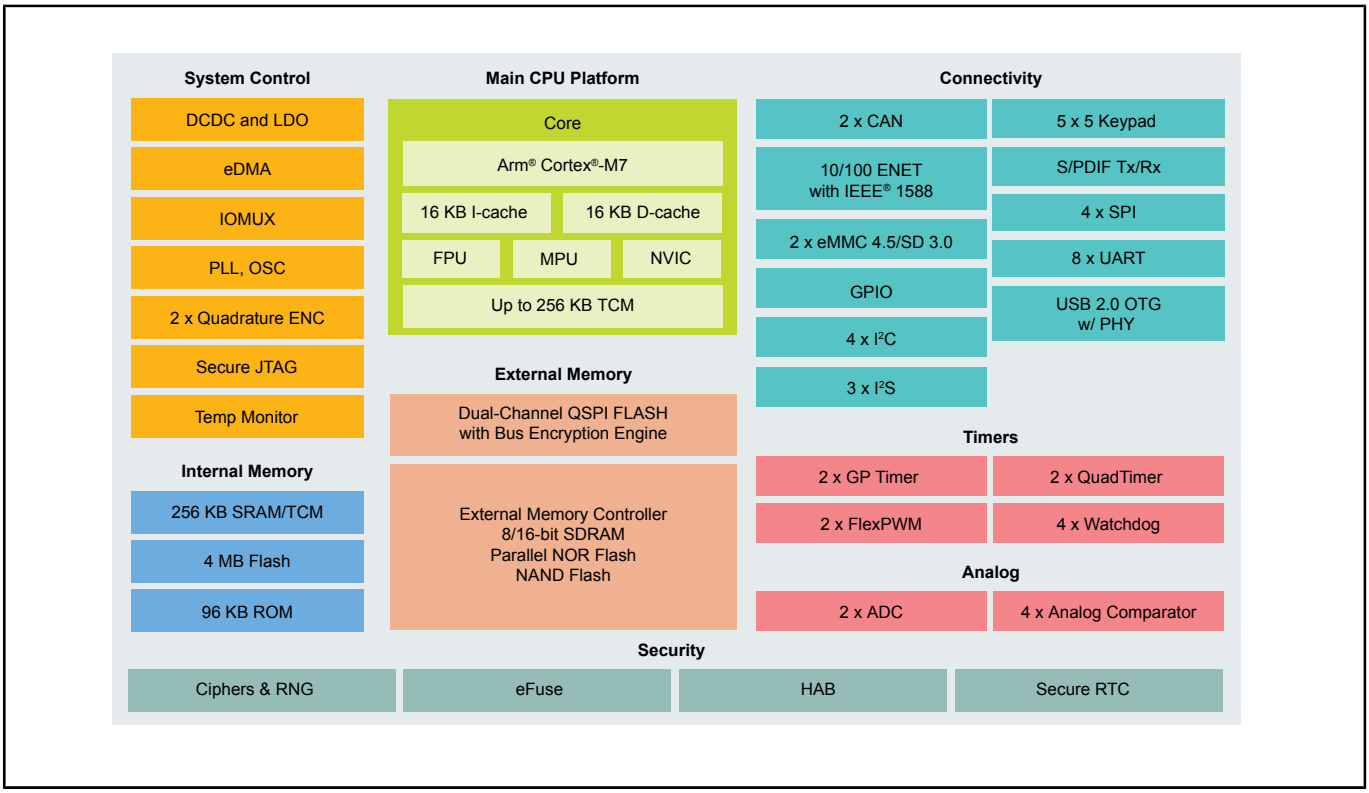
Last Updated: Jun 2, 2026

i.MX RT1024 Crossover MCUs are based on the Arm® Cortex®-M7 core forreal-time microcontroller (MCU) performance and high integration for industrial and IoT applications.

The i.MX RT1024 Arm® Cortex®-M7 operates at up to 500 MHz with 4 MB on-chip flash and 256 KB on-chip RAM that can be configured as Tightly-Coupled Memory or general purpose. The family offers various memory interfaces and a wide range of connectivity interfaces including UART, SPI, I²C, USB and CAN. 144 LQFP packages for low-cost PCB designs.

The i.MX RT1024 family is supported by the MCUXpresso ecosystem, which includes an SDK, a choice of IDEs and secure provisioning and configuration tools to enable rapid development.

i.MX RT1024 Crossover MCU Block Diagram



View additional information for i.MX RT1024: Crossover MCU with Arm® Cortex®-M7.

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.