



# i.MX RT1170: 1 GHz Crossover MCU with Arm® Cortex® Cores

## i.MX-RT1170

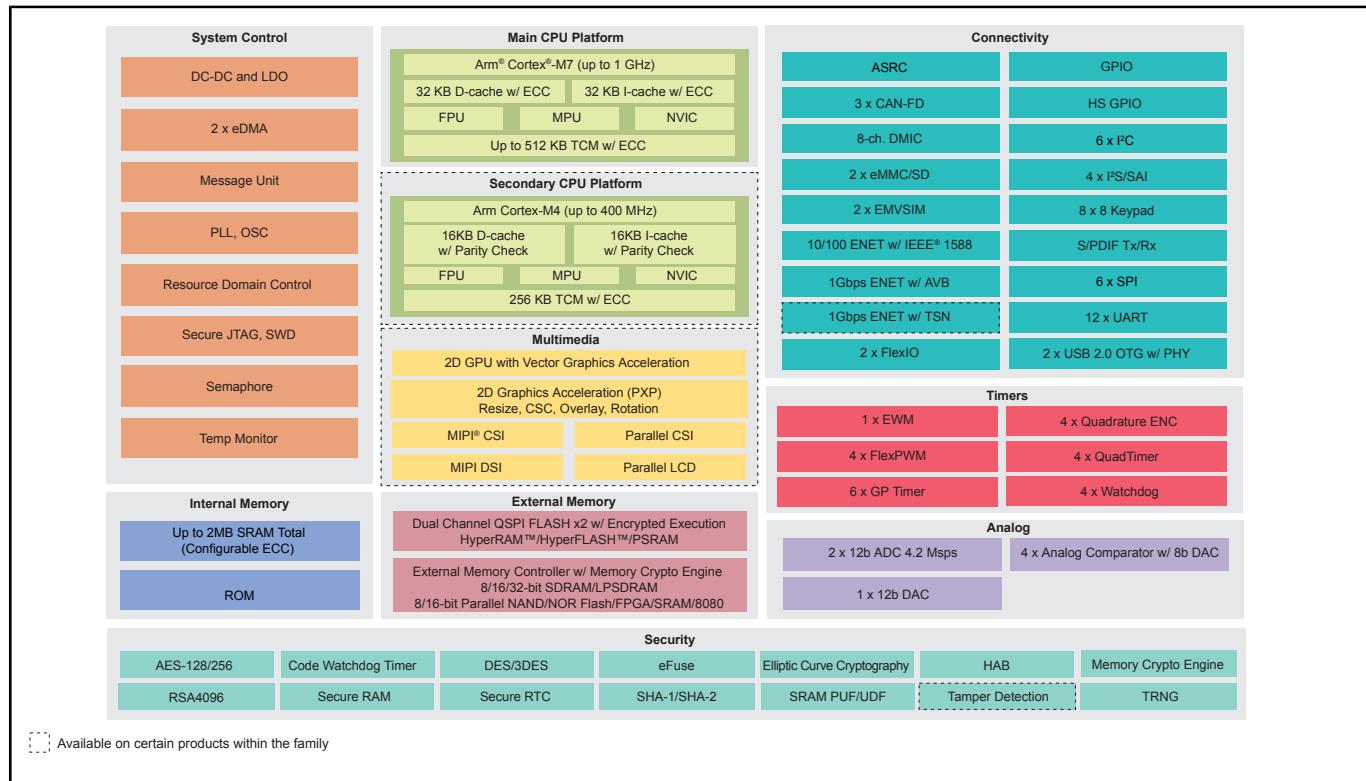
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i.MX RT1170 Crossover MCUs are dual-core devices featuring an Arm® Cortex®-M7 and Arm® Cortex®-M4 for real-time microcontroller (MCU) performance and high integration for automotive, industrial and IoT applications.

The i.MX RT1170 Arm® Cortex®-M7 operates at up to 1 GHz and the Arm® Cortex®-M4 up to 400 MHz with 2 MB on-chip RAM. The real-time microcontroller (MCU) family offers various memory interfaces and a wide range of connectivity interfaces including 3x Ethernet up to Gbps with TSN/AVB, UART, SPI, I<sup>2</sup>C, USB and 3x CAN FD. The i.MX RT1170 provides advanced embedded security including secure boot and crypto engines.

The i.MX RT1170 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 RT1170 Crossover MCU Block Diagram



View additional information for [i.MX RT1170: 1 GHz Crossover MCU with Arm® Cortex® Cores](#).

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

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