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

i.MX-RT1170

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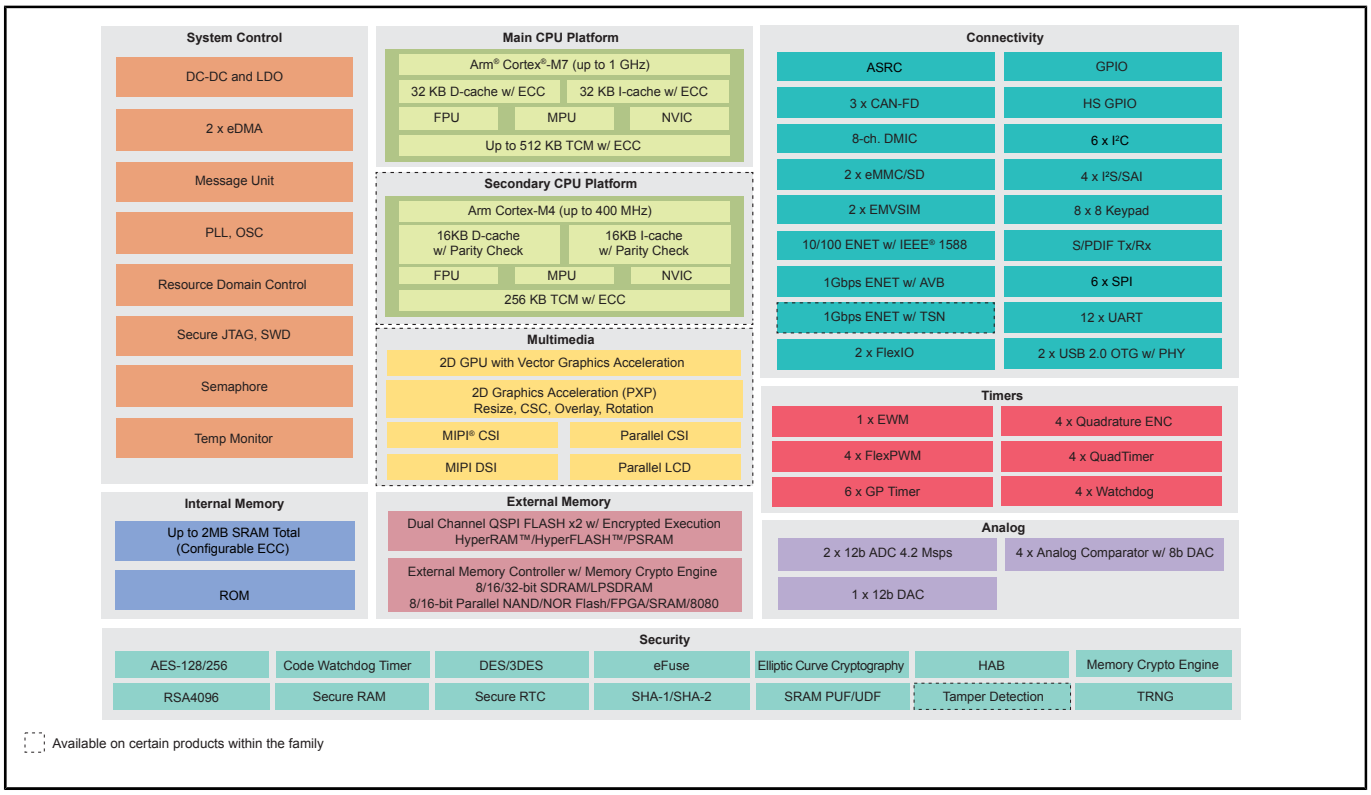
i.MX RT1170 Crossover MCUs are dual-core devices featuring an Arm® Cortex®-M7 and Arm® Cortex®-M4 for real-time microcontroller (MCU) performance and high integration for automotive, industrial and IoT applications.

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, I²C, 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.