



i.MX RT1170 Crossover MCU Dual-Core Arm® Cortex®-M7 and Cortex-M4 Operating Up to 1 GHz

i.MX-RT1170

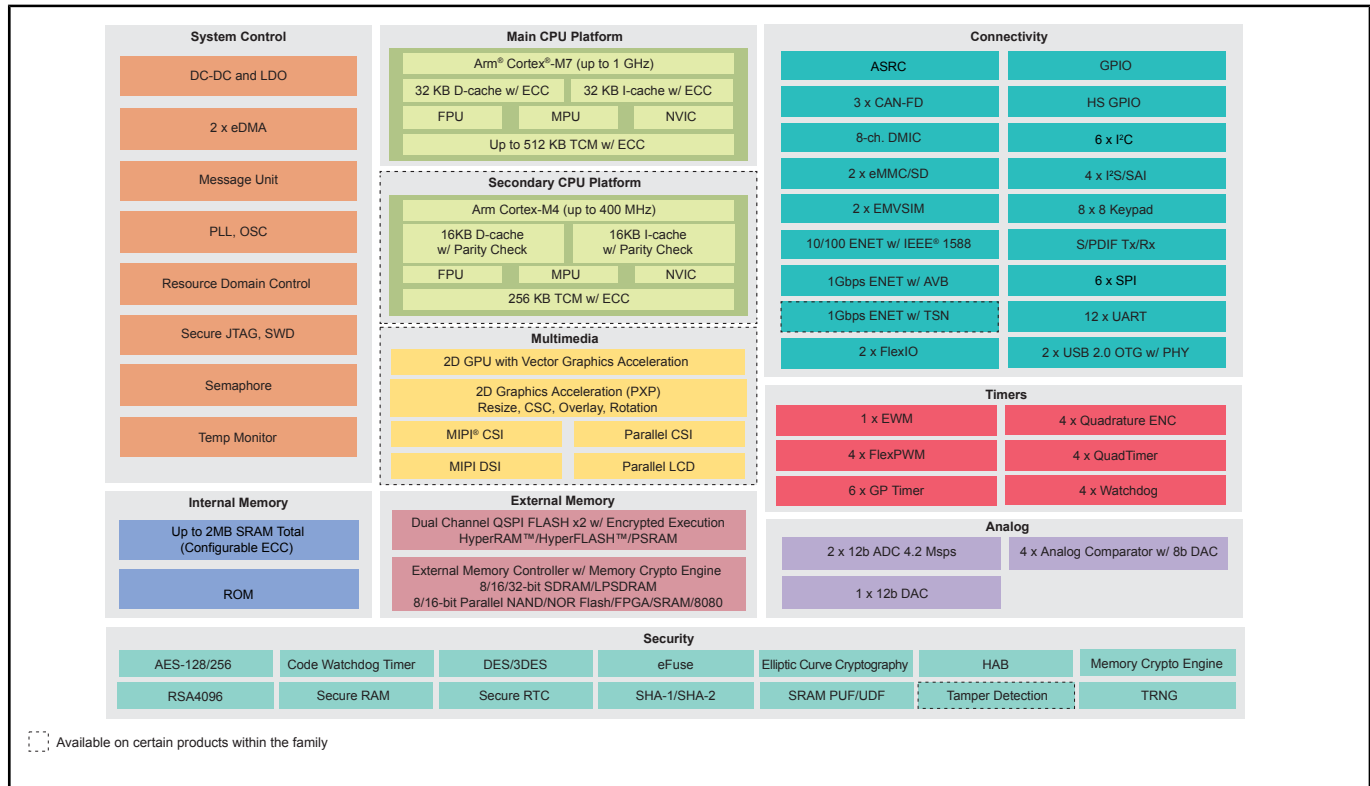
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i.MX RT1170 Crossover MCUs are dual-core devices featuring an Arm® Cortex®-M7 and Cortex-M4 for real-time performance and high integration for Automotive, Industrial and IoT applications.

The i.MX RT1170 CM7 operates at up to 1 GHz and the CM4 up to 400 MHz with 2 MB on-chip RAM. The 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 Crossover MCU Dual-Core Arm® Cortex®-M7 and Cortex-M4 Operating Up to 1 GHz.](#)

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