i.MX RT1040 Crossover MCU with Arm® Cortex®-M7 Core Operating Up to 600 MHz and Extended Temperature Range

i.MX-RT1040

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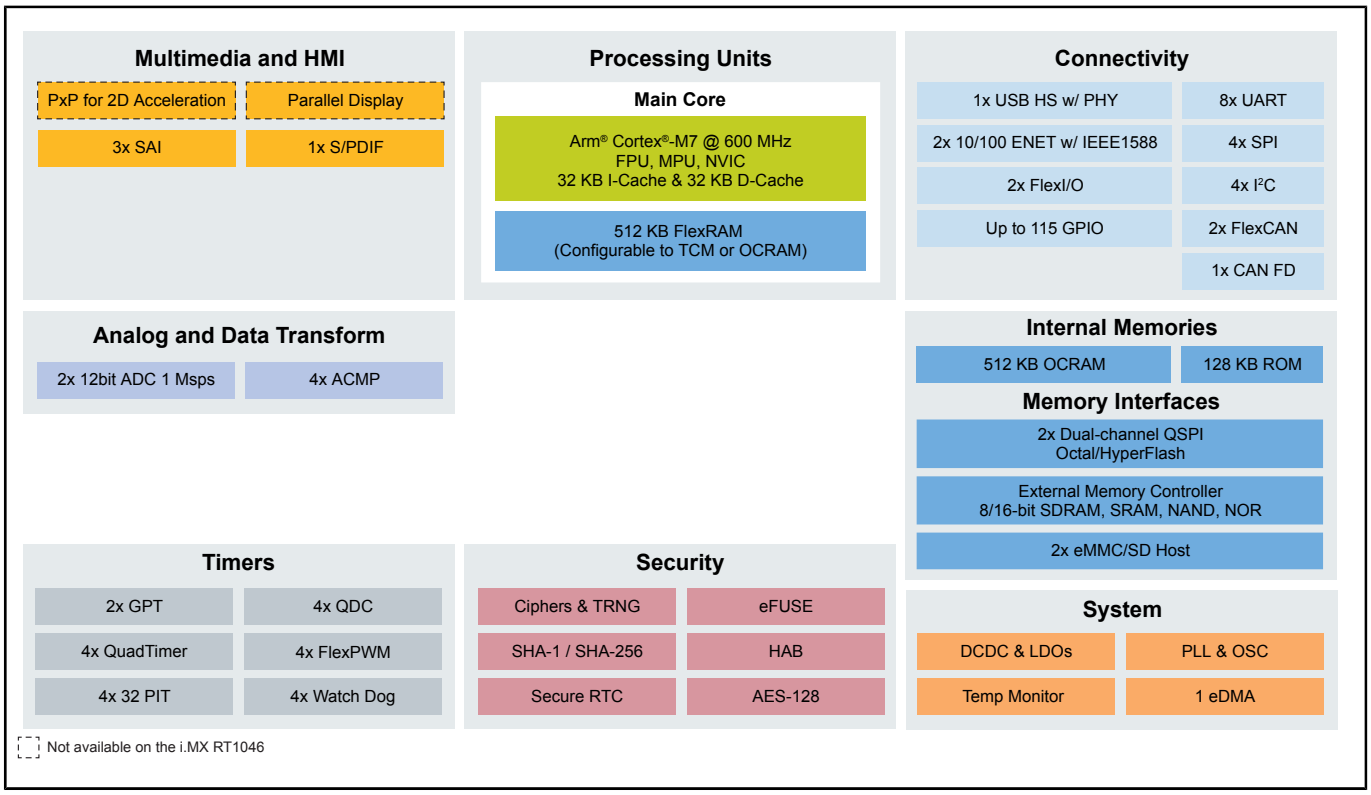
i.MX RT1040 Crossover MCUs are based on the Arm® Cortex®-M7 core for real-time performance and high integration for Industrial and IoT applications.

The i.MX RT1040 Arm® Cortex®-M7 operates at up to 600 MHz with 1MB 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. The new i.MX RT1046 provides additional flexibility with 169 BGA compact package and an extended temperature range up to 125°C and the new i.MX RT1043 extends SRAM memory size up to 1 MB with LCD support.

The i.MX RT1040 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 RT104x MCU Block Diagram



View additional information for i.MX RT1040 Crossover MCU with Arm® Cortex®-M7 Core Operating Up to 600 MHz and Extended Temperature Range.

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