



i.MX RT1180 Crossover MCU with TSN Switch and EdgeLock®

i.MX-RT1180

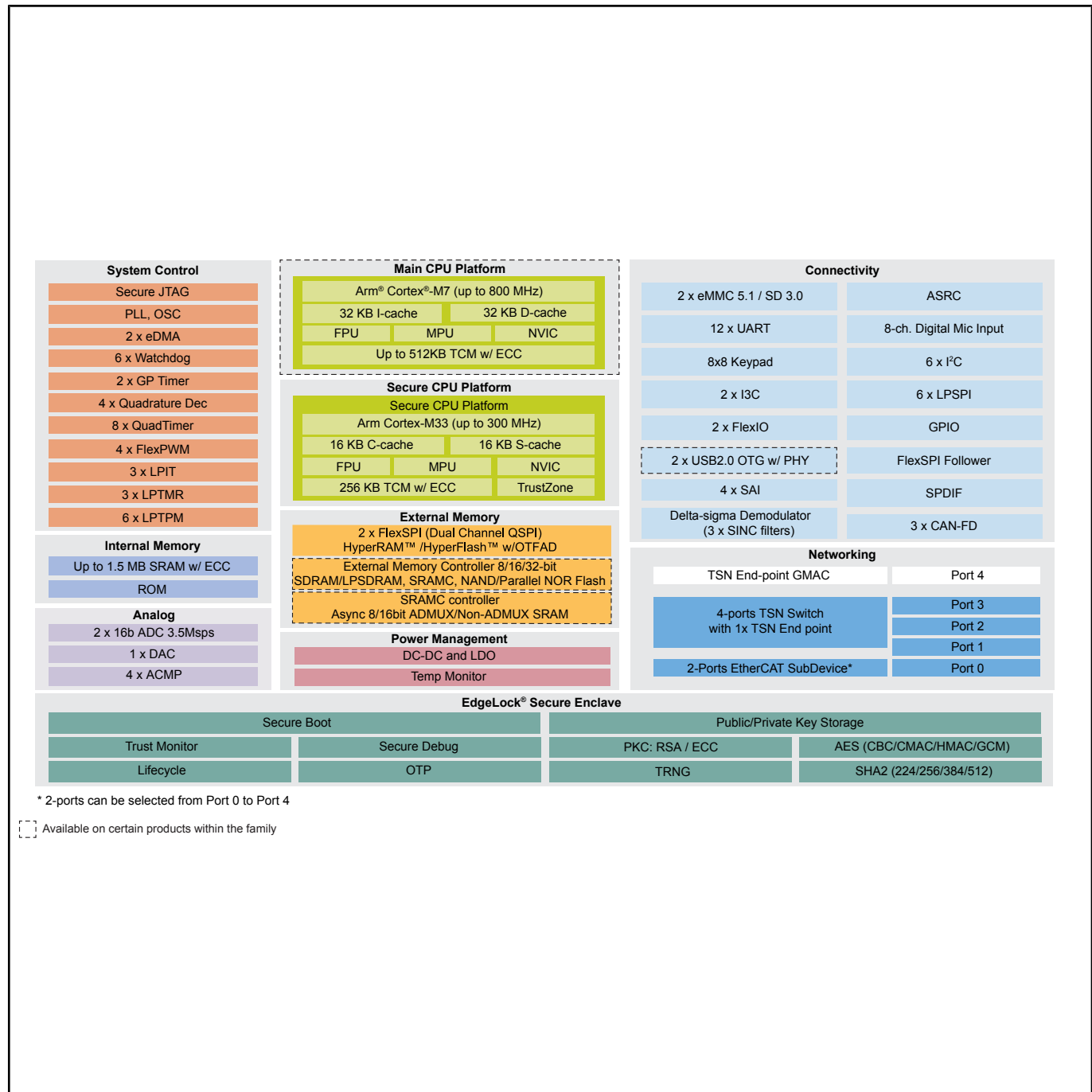
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i.MX RT1180 Crossover MCUs are dual-core, real-time microcontrollers (MCUs) featuring an Arm® Cortex®-M7 and Arm® Cortex®-M33 for high performance and real-time functionality. The i.MX RT1180 includes an integrated Gbps time-sensitive networking (TSN) switch and EtherCAT SubDevice Controller making it ideal for industrial applications.

The i.MX RT1180 CM7 operates at up to 800 MHz and the Arm Cortex-M33 up to 300 MHz with 1.5 MB on-chip RAM. The family supports multiple protocols, bridging communications between real-time Ethernet and Industry 4.0 systems. The i.MX RT1180 offers advanced security with the integrated EdgeLock® Secure Enclave.

The i.MX RT1180 family is supported by the [MCUXpresso developer experience](#), which includes an SDK, a choice of IDEs and secure provisioning and configuration tools to enable rapid development.

i.MX RT1180 Crossover MCU Block Diagram



View additional information for [i.MX RT1180 Crossover MCU with TSN Switch and EdgeLock®](#).

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

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