i.MX RT1180 Crossover MCU Dual-Core Arm® Cortex®-M7 and Cortex-M33 with TSN Switch

i.MX-RT1180

Preproduction
This page contains information on a preproduction product. Specifications and information herein are subject to change without notice. For additional information contact support or your sales representative.

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

The i.MX RT1180 CM7 operates at up to 800 MHz and the CM33 up to 240 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 intregraed EdgeLock® Secure Enclave.

The i.MX RT1180 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.
View additional information for i.MX RT1180 Crossover MCU Dual-Core Arm® Cortex®-M7 and Cortex-M33 with TSN Switch.

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