i.MX 7Dual Processors - Heterogeneous Processing with Dual Arm® Cortex®-A7 Cores and Cortex-M4 Core

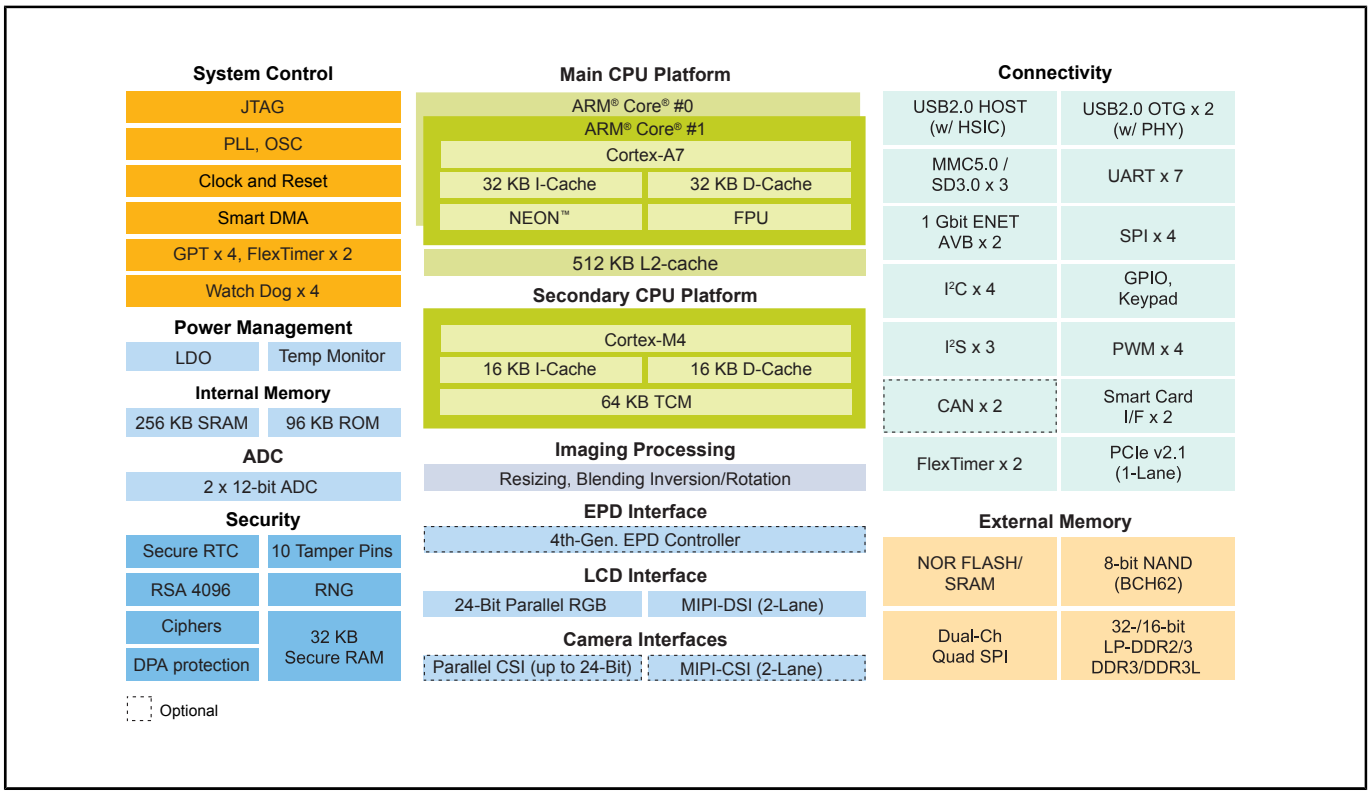
i.MX7D

Last Updated: Apr 13, 2023

The i.MX 7Dual family of processors represents our latest achievement in high-performance processing for low-power requirements with a high degree of functional integration. These processors are targeted towards the growing market of connected devices. The i.MX 7Dual family of processors features our advanced implementation of the Arm® Cortex®-A7 core, which operates at speeds of up to 1.2 GHz, as well as the Arm Cortex-M4 core. The i.MX 7Dual family supports multiple memory types including 16/32-bit DDR3L/LPDDR2/LPDDR3-1066, Quad SPI memory, NAND, eMMC and NOR. Several high-speed connectivity connections include Gigabit Ethernet with AVB, PCIe and USB. Both parallel and serial Display and Camera interfaces are provided, as well as a way to directly connect to the Electrophoretic Displays (EPD).

i.MX 7 applications processors are part of NXP's EdgeVerse™ edge computing platform.

i.MX 7Dual Processors Block Diagram



View additional information for i.MX 7Dual Processors - Heterogeneous Processing with Dual Arm® Cortex®-A7 Cores and Cortex-M4 Core.

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