



Secure, Energy-Efficient i.MX 91 Family Brings Essential Linux® Capabilities for Thousands of Edge Applications

i.MX91

Preproduction

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Last Updated: Apr 11, 2024

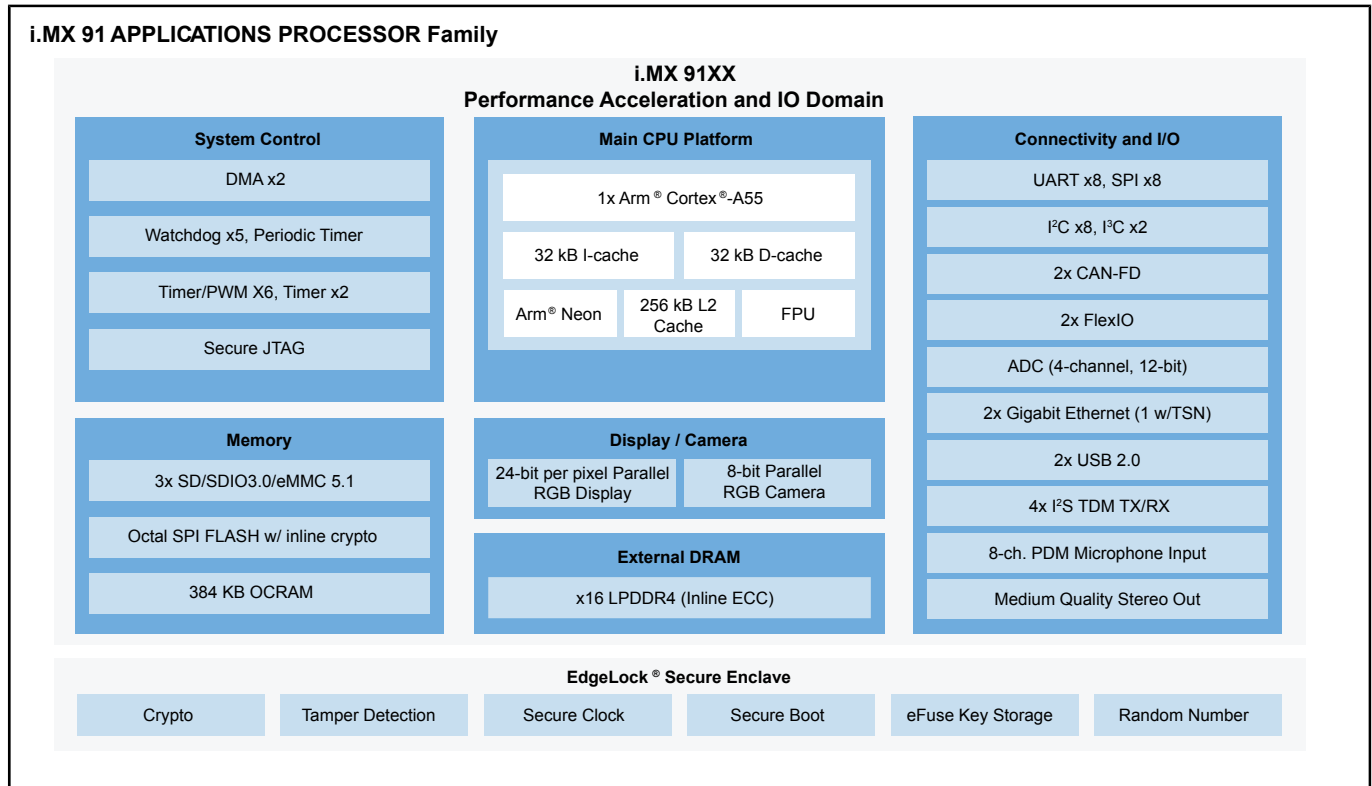
The i.MX 91 family of applications processors enables the rapid creation of new Linux®-based edge devices, such as smart home controllers, connected appliances, home entertainment, industrial and medical platforms. Emerging protocols, such as [Matter®](#) for the smart home or the ISO 15118-20 standard for [electric vehicle \(EV\) chargers](#), create inflection points for new product categories across IoT and industrial markets.

Next-generation Linux-based devices based on i.MX 91 SoC will be high-performance, affordable, and secure solutions, enabling adaption to updated protocols or new standards as they are introduced. The i.MX 91 SoC's integrated [EdgeLock® Secure Enclave](#) provides security features including lifecycle management, tamper detection, secure boot and a simplified path to certifications.

The i.MX 91 family features an Arm® Cortex®-A55 running at up to 1.4GHz, support for modern LPDDR4 memory to enable platform longevity, dual Gigabit Ethernet and dual USB ports, along with a rich set of peripherals targeting medical, industrial and consumer IoT market segments.

Part of the [EdgeVerse™](#) portfolio of intelligent edge solutions, the i.MX 91 family will be offered in commercial and industrial qualification and backed by [NXP's product longevity program](#) .

i.MX 91 Applications Processor Family Block Diagram



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