

MCX E32, E31: Robust 5V MCU for Safe, Secure Industrial Automation

MCX-E32-E31 UPDATED

Preproduction

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Start your next MCX design with confidence, backed by NXP's resilient manufacturing strategy and dependable product availability.

MCX E32 and MCX E31 expand NXP's scalable portfolio of Arm® Cortex® M-based microcontrollers. MCX E32 features a high-performance dual-core Cortex®-M7 processor. Both MCX E32 and MCX E31 offer increased memory, IEC 61508 SIL 2 functional safety support and an advanced security enclave. Our NXP Safe Assure® program helps customers achieve functional safety certification.

Designed for safe and robust operation in commercial and industrial environments, MCX E32 and MCX E31 suit applications that are exposed to harsh electrical conditions. It offers a cost-optimized solution with compact exposed to harsh electrical conditions. hey provide cost-optimized solutions with compact package options, broad memory and peripheral configurations, and consistent pinouts for easy migration and design reuse.

These devices are supported by the MCUXpresso Developer Experience to facilitate optimized embedded system development.

MCX E32 MCUs Block Diagram



MCX E31 MCUs Block Diagram



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