

# MCX MCUs FOR THE NEXT ERA OF INDUSTRIAL AND IoT EDGE COMPUTING



The MCX portfolio offers four new Arm® Cortex®-M based MCU series with developer-focused software to simplify system design.

The MCX portfolio offers a comprehensive selection of general-purpose and application-specific Arm Cortex-M based microcontrollers offering expanded scalability with breakthrough product capabilities, simplified system design and a developer-focused experience through the widely adopted MCUXpresso suite of software and tools.

The MCX portfolio is part of NXP's EdgeVerse™ edge computing platform.

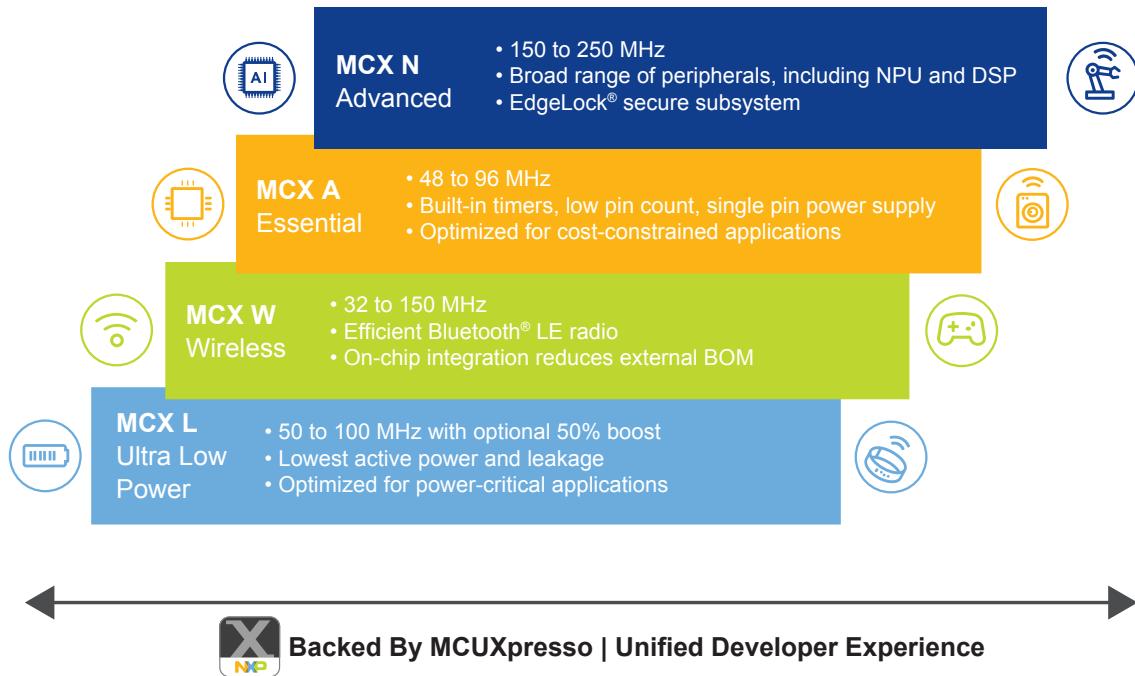
- Ultimate scalability up to 4 MB Flash and 1 MB SRAM
- Extra flexibility with a comprehensive peripheral offering
- Extensive on-chip security options

## TARGET APPLICATIONS

- Industrial IoT
- Smart home
- Smart building
- Industrial automation
- Consumer electronics
- Wireless devices
- Battery operated devices
- Voice-enabled IoT devices
- General embedded

## THE MCX MCU EXPERIENCE

Combining product architecture enhancements and strategic integration enables you to accelerate product development using various MCX application domains across the scalable platform. Application domains can support key features that take your end application even closer to the edge with thoughtful integration for use cases such as wireless connectivity, motor control and machine learning.



## DESIGNED WITH YOU IN MIND



### WIRELESS

Add wireless connectivity to your next design with an MCX wireless MCU that includes a certified stack, application examples in the MCUXpresso SDK and an energy efficient radio. The wireless integration on the MCX devices can extend battery life for small systems and lower system cost.



### MACHINE LEARNING

Implement advanced ML/AI in your future products with the integrated neural processing unit ideal for time series data ML applications like anomaly detection and keyword spotting and voice applications. Reduce power consumption with quicker inference times and improve time-to-market with use of the broadly available eIQ toolkit.



### MOTOR CONTROL AND ANALOG

Spin your motor using key features of the MCX portfolio to support a wide range of motor control applications, with capabilities such as driving multiple ACM and PMSM with FOC. Reduce system BOM cost by leveraging on-chip features such as high-performance ADCs, comparators, DACs and instrumentation-class op amps.



### SOFTWARE AND TOOLS

Utilize MCUXpresso software and tools to optimize, ease and help accelerate your embedded system development with a widely-used development suite that includes device configuration tools, drivers and middleware, a fully featured IDE and a secure provisioning tool.