

MCX W71 and W72 connected microcontrollers



The MCX W7x series brings rich connectivity to the MCX portfolio enabling innovative edge devices with secure multiprotocol wireless MCUs for Matter™, Thread®, Zigbee®, and Bluetooth® low energy with Channel Sounding.

The MCX [W71](#) and [W72](#) maximize flexibility with a software-upgradeable independent radio subsystem. With scalable memory sizes the MCX W7x series allows devices to be upgraded over time as user needs change and connectivity protocols like Matter continue to evolve.

The MCX W7x series includes the MCX W72, the industry's first wireless MCU to support the new Bluetooth® Channel Sounding standard, which improves the accuracy and security of distance measurement compared to traditional Bluetooth technology. This is supported by NXP's Localization Compute Engine (LCE) to reduce latency. Along with [NXP's Trimension® portfolio](#) of ultra-wideband (UWB) secure radar and fine ranging products, the MCX W7x evolves ambient computing into a broad range applications.

Key features

- 96 MHz Arm® Cortex®-M33
 - Localization compute engine (MCX W72)
- Radio subsystem with dedicated core, flash, and RAM
 - Support for Matter, Thread, Zigbee, and Bluetooth® low energy with channel sounding (MCX W72)
- 1 MB flash and 128 KB RAM (MCX W71)
 - Additional 256 KB flash and 88 KB RAM for radio subsystem
- 2 MB flash and 264 KB RAM (MCX W72)
 - Additional 512 KB flash and 171 KB RAM for radio subsystem
- Ultra-low power architecture
- [Edgelock® Secure Enclave Core Profile with Edgelock 2GO support](#)
- Optional CAN FD interface
- -40 to 125° C operating temperature

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