



# **Kinetis® KW2xD-2.4 GHz 802.15.4 Wireless Radio Microcontroller (MCU) based on Arm® Cortex®-M4 Core**

## **KW2xD**

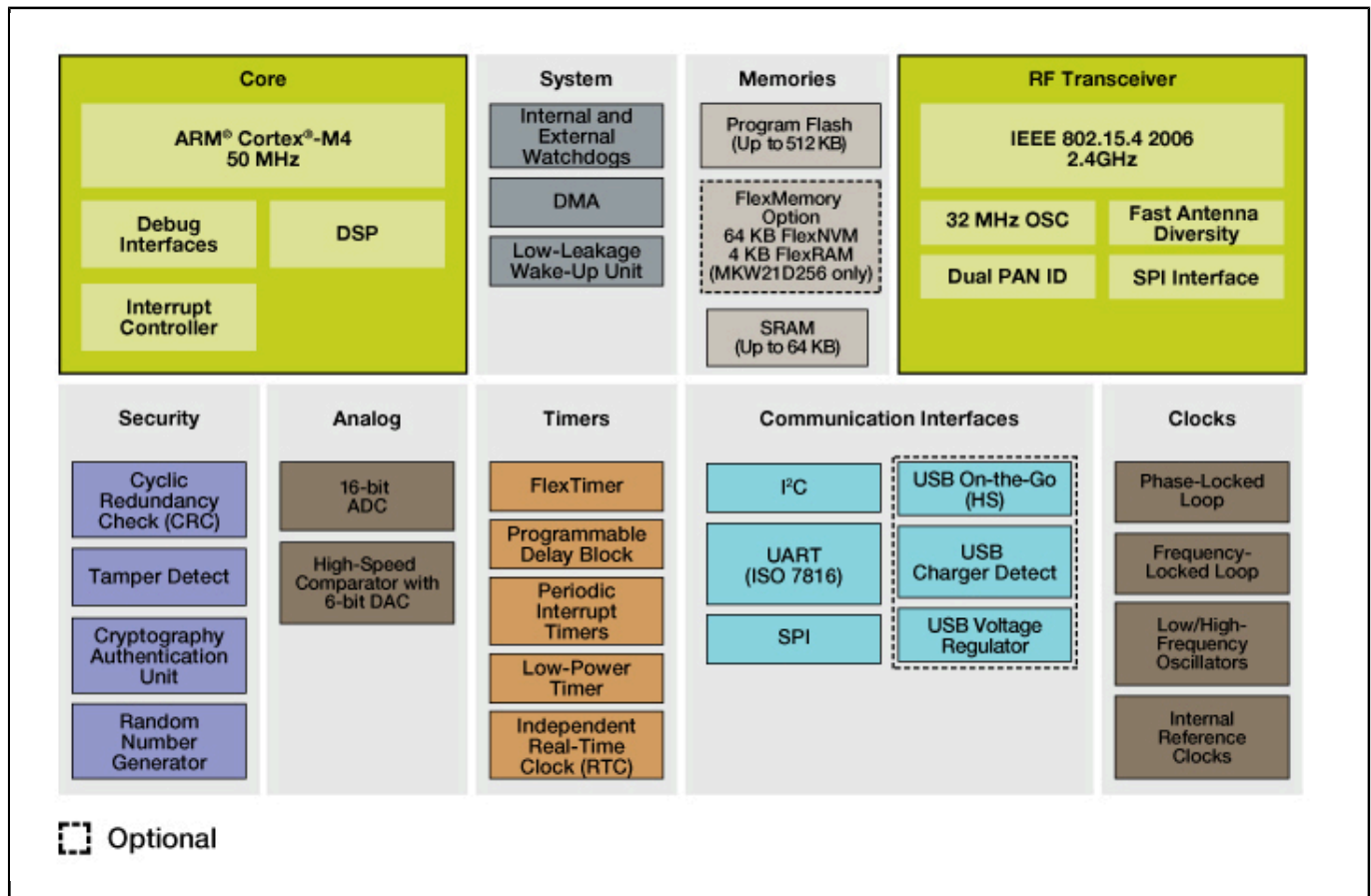
Last Updated: Dec 15, 2024

Note: JN5189/88T is preferred for any new new Zigbee®, Thread design. No new software releases planned

The Kinetis® KW2xD wireless MCU provides a low-power, compact device with integrated IEEE 802.15.4 radio, targeting control and monitoring applications for home and building automation including appliances, access control, climate control, energy management, lighting, safety and security. The KW2xD supports Thread, a lightweight, low latency IPv6 mesh networking stack, specifically designed to meet the requirements of next generation wireless networks. More information on Thread can be found [here](#)

- Provides enough memory to run complicated protocol stacks and user applications on a single IC
- Protects code and data from unauthorized access or modification
- Enables a set of specialized operations to improve throughput of encryption/decryption operations
- Significantly reduces power consumption and extends battery life

## Kinetis W Series KW2x MCUs Block Diagram Block Diagram



View additional information for [Kinetis® KW2xD-2.4 GHz 802.15.4 Wireless Radio Microcontroller \(MCU\) based on Arm® Cortex®-M4 Core](#).

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

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