



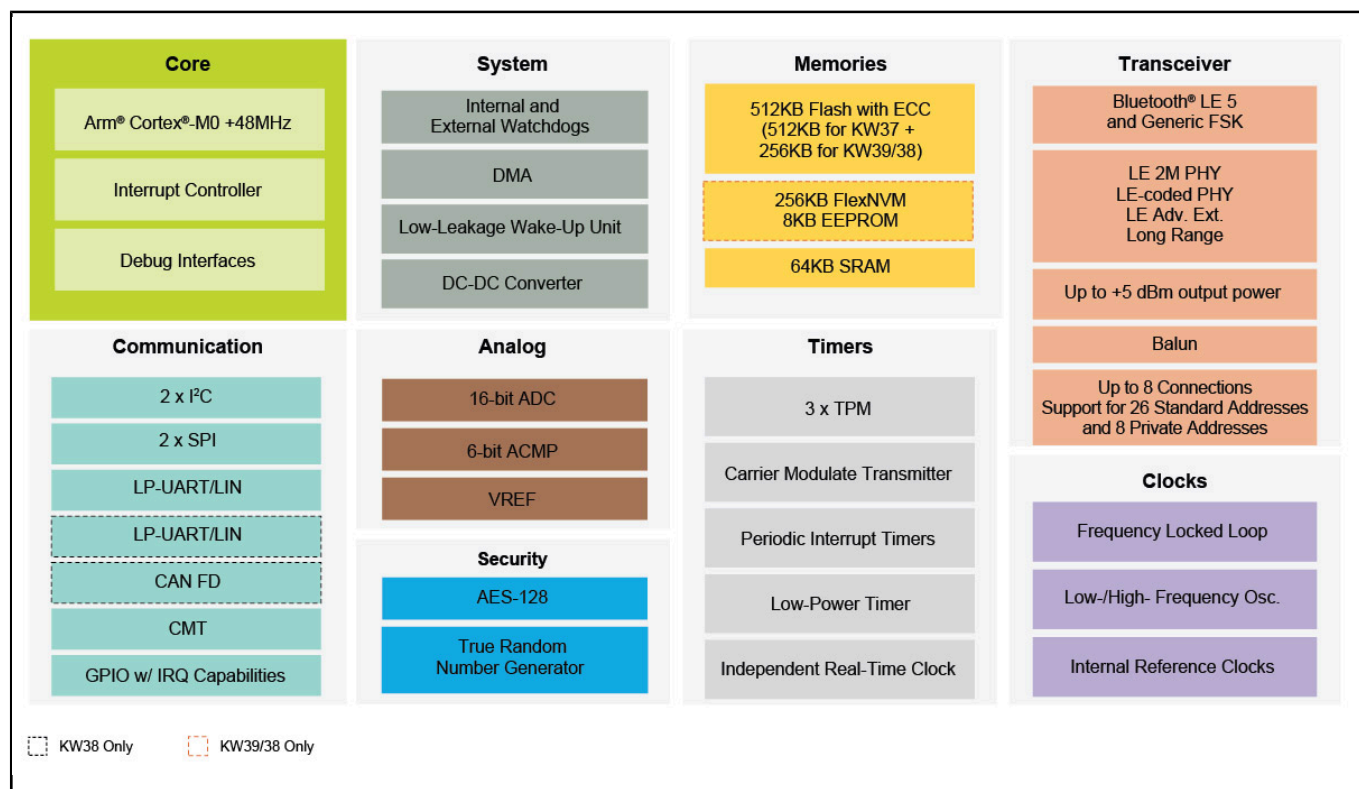
# **KW39/38/37: 32-Bit Bluetooth 5.0 Long-Range MCUs with CAN FD and LIN Bus Options, Arm® Cortex®-M0+ Core**

## **KW39-38-37**

Last Updated: Apr 11, 2024

KW39/38/37 wireless MCUs integrate long-range capability with Bluetooth Low Energy version 5.0 and generic FSK radio. Achieving -105 dBm sensitivity with LE-coded 125 kbit/s data rate allows for connections in harsh environments and at extended distances. The innovative data stream buffer allows the capture of radio parameters without stalling processor or DMA operations. This capability enables high-accuracy measurements needed for distance and angle approximations. The radio supports up to 8 simultaneous secure connections in any leader/follower combination allowing multiple authorized users to communicate with the device. The KW38 MCU additionally integrates FlexCAN, helping enable seamless integration into an automobile's in-vehicle or industrial CAN communication network. The FlexCAN module can support CAN's flexible data rate (CAN FD) for increased bandwidth and lower latency.

## KW39/38/37 MCUs Block Diagram Block Diagram



View additional information for [KW39/38/37: 32-Bit Bluetooth 5.0 Long-Range MCUs with CAN FD and LIN Bus Options, Arm® Cortex®-M0+ Core](#).

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

**www.nxp.com**

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2024 NXP B.V.