MICROCONTROLLERS AND CONNECTIVITY

Latest Bluetooth® LE MCU with Channel Sounding

Our latest Bluetooth® LE MCU with support for IEEE 802.15.4 featuring 288+ DMIPS on Arm® Cortex®-M33 @ 192 MHz is designed for enhanced distance measurement using channel sounding, high data transfer efficiency, edge computing, and superior RF performance. This makes it ideal for various IoT and automotive applications.

Benefits

- Next-gen Bluetooth® LE MCU for faster processing on chip
- High integration to reduce BOM cost
- Seamless & robust operation in noisy environments
- Up to 2 MB NVM & 512 kB RAM
- +10 dBm TX output power
- -100 dBm RX sensitivity (LE1M PHY)
- Extensive peripherals (incl. dual CAN-FD)

Highlight products

- 192 MHz Arm® Cortex®-M33 with FPU and DSP extensions
- 96 MHz Arm® Cortex®-M33 dedicated Bluetooth® Core
- Evaluation kit and key fob reference designs

Applications

- Asset tracking
- Healthcare wearables
- Smart rings/watches
- Car access
- Automotive digital displays