Ultra Low Power Wi-Fi 6 + BLE SoC

The world's first uncompromised Wi-Fi 6 + BLE Wireless Connectivity (2-in-1) SoC dedicated to IOT applications

Best solution to address heterogeneous network for IOT sensors and IP networks

Applications: IOT Devices

KEY FEATURES

- Wi-Fi 6 2.4GHz 1x1
- BLE 5.2
- Outstanding RF performance
- Ultra low power
  - Sleep current <2 uA
  - Wi-Fi Tx / Rx ~26/28 mA
- Hostless (embedded) usage
- Dual ARM Cortex M0 / M4 up to 44&176 MHz clock speed

- Extensive peripherals
  - 24 GPIO
  - 3 SPI interfaces
  - 2 UART connections
  - 2 I2S (source & sink)
  - 1 I2C (master & slave)
  - 16 10-bit ADC analog inputs
  - 4 LED drivers
  - 6 PWM channels

- Flexible memory architecture
  - 1MB+ ROM
  - ~500KB RAM
  - XIP external Flash/PSRAM
- Flexible dual PA architecture
  - 2dBm PA
  - 20dBm PA
- Integrated PMU(DCDC/LDO)
- Hardware AES / ECC crypto
- On-chip 32 KHz crystal oscillator
- 6x6 QFN48 package

*Wi-Fi Tx output power @ 0dBm