





## Specification

### CPU

- ARM Cortex-M3 for Application
- ARM Cortex-M0 for WLAN
- Mailbox for communication

### Memory

- 32KB Boot ROM for M0
- 32KB Boot ROM for M3
- 752KB System SRAM
- XIP with cache (2 ways, 32KB)

### Communication Peripherals

- GPIO X 54
- SPI X 4
- UART X 4
- I2C X 4
- 9-bit ADC X 4

### RF Transceiver

- Single-ended RF ports
- Frequency band: 750 to 950MHz
- Linear TX output power: 0dBm
- TX gain range: 30dB
- RX noise figure: <4dB
- Max. input level: -10dBm
- 10bits ADC and DAC



## Key Features

- Complies with IEEE 802.11ah™-2016
- Fully Integrated on-chip 11ah modem, RF transceiver, processor, and memory
- Support 1/2/4 MHz bandwidth
- Up to 15 Mbps data rate
- Low power mode operation
  - Legacy
  - WMM-PS
  - TWT
- AES-CCMP security
- Dedicated SPI and UART interface for host
- Various peripheral interfaces for sensor device
- Manufacturing tools for configuration and test
- Diagnostic and DUT test tools for indoor and outdoor test