

DSNA-M20 is a LGA wireless local area network (WLAN), Bluetooth(BT) Low Energy and 802.15.4 combo module to support dual-band 1X1 IEEE 802.11a/b/g/n WLAN standards, BT 5 and 802.15.4 enabling seamless integration of WLAN/BT Low Energy and 803.15.4 technology.

1.1. Features

- 3 embedded Processors, ARM Cortex-M4F + ARM Cortex-M0 + XTENSA
- Wi-Fi Support Dual band 1x1 a/b/g/n mode
- Bluetooth Low Energy (BLE) compliant to the SIG v5 specification
- IEEE802.15.4 compliant to the v2006 specification and also featuring Coordinated Sample Listing (CSL), from the 802.15-2015 specification
- Secure boot(TBC)
- Dynamic voltage and frequency control
- Configurable memory retention for minimizing deep sleep power per application
 - Interfaces:
 - HS USB2.0 X1
 - 2X I2C
 - HS UART X1, 2-wire UART X 1
 - HS SPI X1 and 2-wire SPI X1
 - Up to 8 channels Sensor ADC(12 bit, 1MSPs)
 - Up to 8 PWM optimized for LED lighting applications
 - SDIO 2.0
 - I2S
 - GPIOs, JTAG debug port

1.2 Block Diagram

