

NRC7292 EVK

IEEE 802.11ah Wi-Fi Module Evaluation Kit



IEEE 802.11ah is a new Wi-Fi standard operating in the Sub 1GHz license-exempt band, offering longer range and lower power connectivity necessary for internet of things (IoT) applications. NRC7292 EVK facilitates evaluation and software development around NRC7292 Wi-Fi module. NRC7292 module contains external RF front end module (FEM) which can increase transmission power up to 23 dBm. On-board serial flash can be used for OTA software development and with internal 32KB cache memory, it can support execution in place (XIP) feature.

With the dual embedded ARM Cortex-M0 and Cortex-M3 processor, NRC7292 module can be used either as a standalone or a slave to a host processor via serial peripheral interface (SPI) or universal asynchronous receiver transmitter (UART) interface. In addition, it can support both AP and STA roles.

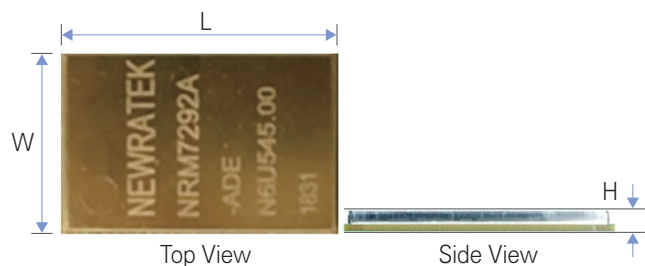


Module Features

- o IEEE 802.11ah™-2016
- o 1/2/4 MHz channel bandwidth support
- o WPA2 PSK support
- o Both AP and STA role support
- o -109 dBm maximum receive sensitivity
- o 750 ~ 950 MHz frequency band
- o 150 Kbps ~ 15 Mbps data rate
- o UART and SPI support for host interface
- o +23 dBm transmit power



Module Dimensions (mm)

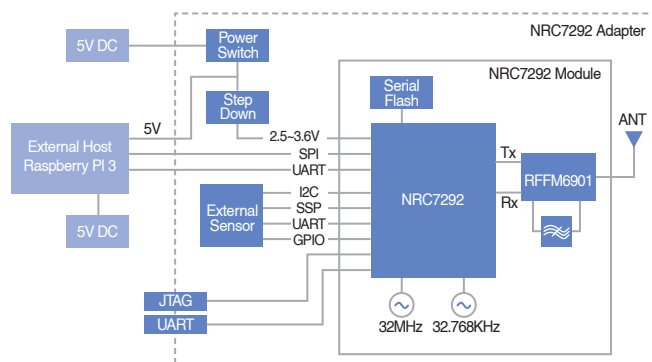


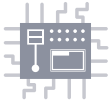
- o L : 30
- o W : 20
- o H : 2.4



Target Applications

- o IoT applications
- o Wearables
- o Home automation
- o Healthcare
- o Industrial automation
- o Safety and security
- o Smart grid
- o Multimedia streaming





Evaluation Board Features

- IEEE 802.11ah Wi-Fi SoC solution
- Micro-USB type B connector for serial interface
- 20-Pin header connector for JTAG interface
- 40-Pin header connector for Raspberry PI 3 Model B interface
- DIP switch for Wi-Fi module configuration
- SMA female connector for ANT

