muRata
Innovator in Electronics

Product Brief

Wi-Fi® 802.11 b/g/n Network Controller Module

Model: SN8200

The SN8200 is a small, low power, self-contained, certified Wi-Fi® network controller module that provides simple serial-to-Wi-Fi® connectivity to the internet. It is an ideal solution for manufacturers who are looking to add wireless connectivity to home appliances or other devices for the healthcare equipment and industrial control and monitoring markets.

The SN8200 is enabled with Broadcom Corporation's Wireless Internet Connectivity for Embedded Devices (WICED) architecture. It hosts the Wi-Fi®, TCP/IP network stack, security supplicant and other network application features, such as web server, all integrated within the module. The module provides Simple Network Interface Card (SNIC) serial-to-Wi-Fi interface protocol that treats the Wi-Fi module as a simple serial port.

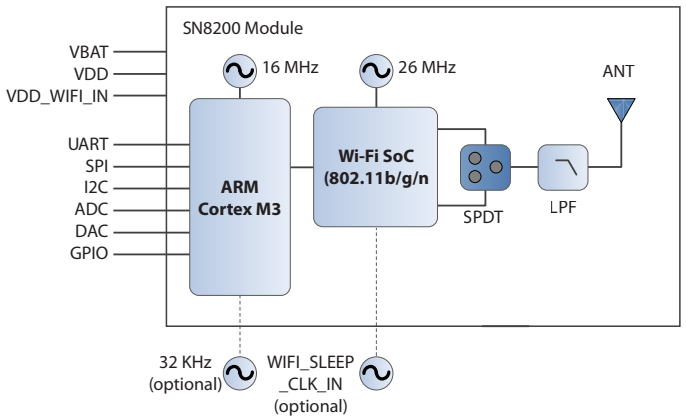
Features

- *2.4GHz IEEE 802.11b/g/n*
- *Wi-Fi® chipset: Broadcom BCM43362*
- *MCU: ST Microelectronics STM32 ARM Cortex-M3*
- *Support WPA/WPA2 PSK*
- *Built-in TCP/IP Stack, HTTP, DHCP, DNS, and Web Server*
- *Support AP/STA Dual mode*

Applications

- *Home automation*
- *Home energy management systems*
- *Smart appliances*
- *Industrial control and monitoring*
- *Healthcare and fitness devices*

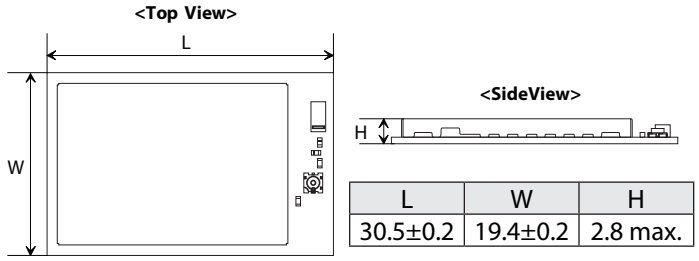
Block Diagram



Specifications

Technology	2.4GHz IEEE 802.11b/g/n
Antenna Configuration	On-board
Transmit power	+18 dBm @b mode/11Mpbs
Max receive sensitivity	-96dbm
Host Interface	UART, SPI
Sensor applications support	GPIO, I2C, ADC, DAC
Operating Temperature	-30°C to +85°C

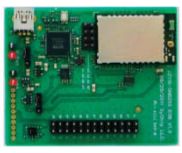
Dimensions (mm)



L	W	H
30.5±0.2	19.4±0.2	2.8 max.

Evaluation Kit – P/N 88-00151-85

- *1 evaluation board*
- *1 USB cable*
- *CD with software and manuals*



Note: Information in this brief is subject to change without notice.

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