# SN8000

## Wi-Fi 802.11b/g/n Module

## Module Block Diagram
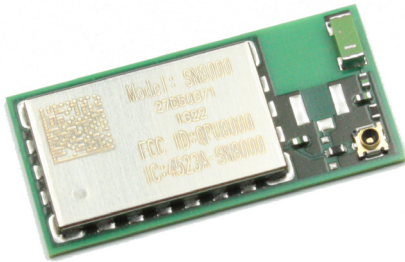


The SN8000 is a certified 2.4 GHz IEEE 802.11b/g/n Wi-Fi module based on the Broadcom BCM43362 chipset. SN8000 is designed to fit indoor and outdoor sensor and control applications. It integrates Wi-Fi IC, RF front end, temperature compensated crystal (TCXO) and an on-board antenna. The module dimensions are 24 x 11.4 x 2.0 mm.

SN8000 is enabled with Broadcom WICED™ SDK software to support low power, low cost microcontroller platforms from STM32F2/F4, Freescale K60, i.MX6, Atmel SAM4, NXP LPC17xx, NXP LPC43xx, and ZentriOS SDK.

The SN8000 module is an ideal solution for home automation, industrial control, Smart Energy, medical and healthcare applications with or without cloud services.

The module and evaluation kit are available from Murata distribution partners. A footprint compatible version with U.FL connector, SN8000UFL, is also available to connect to an external antenna.

## Module Specifications

| Technology | 2.4 GHz IEEE 802.11b/g/n |
|---|---|
| Antenna Configuration | On-board or U.FL Connector |
| Transmit Power | +18.5dBm @b mode/11Mbps |
| Max receive sensitivity | -96dBm |
| Host interface | SDIO |
| Operating temperature | -40°C to +85°C |

## Module Dimensions



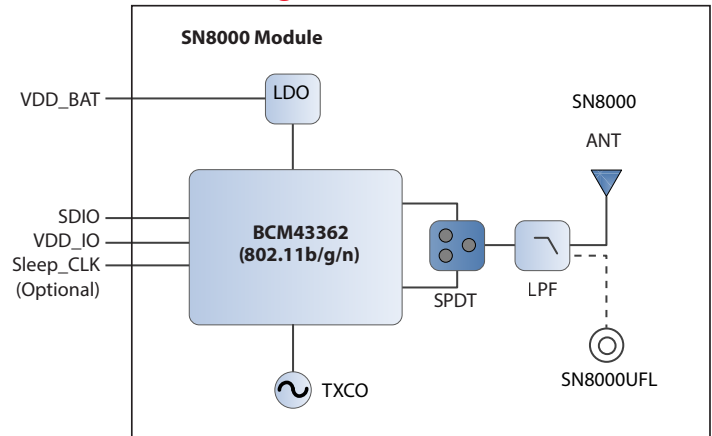| L (mm) | W (mm) | H (mm) |
|---|---|---|
| 24.0 ±0.2 | 11.4 ±0.2 | 2.0 ±1.5 |

## SN8000 Module Features

- 2.4GHz IEEE 802.11b/g/n
- Chipset: Broadcom BCM43362 Wi-Fi®
- Supports WPA/WPA2 Security
- Compatible with Broadcom WICED™ SDK for STM32F2/F4, Freescale K60, i.MX6, Atmel SAM4, NXP LPC17xx, NXP LPC43xx, and ZentriOS SDK
- FCC/IC Certified, CE Compliant
- RoHS2 Compliant

## SN8000 Module Application

- Home Automation & Home Energy Management
- Systems
- Smart Appliances
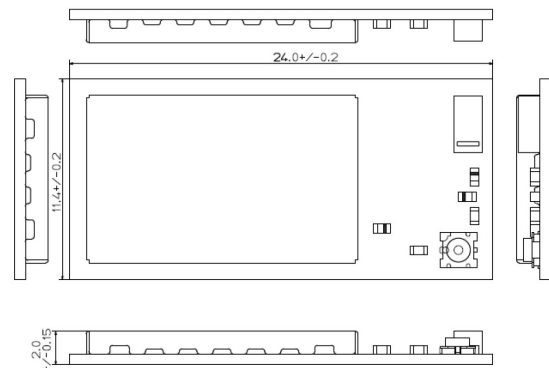- Industrial Control and Monitoring
- Medical and Healthcare

**SN8000EVK**
**(P/N 88-00153-85 & 88-00153-87)**
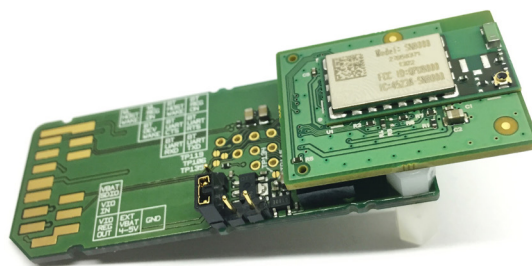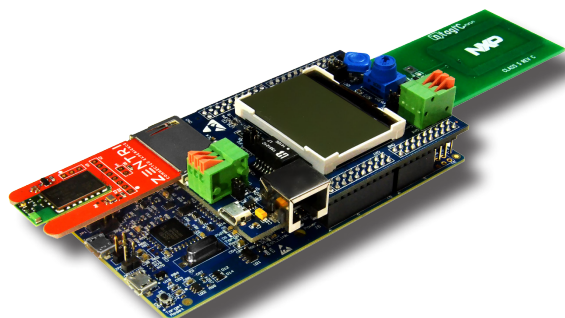


**SN8000CMK**
**P/N 88-00153-90**



**NXP/Zentri LPC43S67-A70CM Cloud Connectivity Kit**
**(P/N OM13086)**

| Item | Model Number | Ordering Part Number | Description |
|---|---|---|---|
| SN8000 module | SN8000 | 88-00153-00 | Murata SN8000 WiFi 11n module with on-board antenna |
| SN8000 UFL module | SN8000UFL | 88-00153-02 | Murata SN8000UFL WiFi 11n module with u.FL connector |
| SN8000EVK | SN8000EVK | 88-00153-85 | Murata SN8000 module evaluation and development kit |
| SN8000UFL EVK | SN8000UFL EVK | 88-00153-87 | Murata SN8000UFL module evaluation and development kit |
| SN8000CMK | SN8000CMK | 88-00153-90 | Murata SN8000 Connector Module Kit for Freescale i.MX6 microcontroller |
| NXP LPC43S67-A70CM Cloud Connectivity Kit | | OM13086 | NXP and Zentri Cloud Connectivity Kit |