



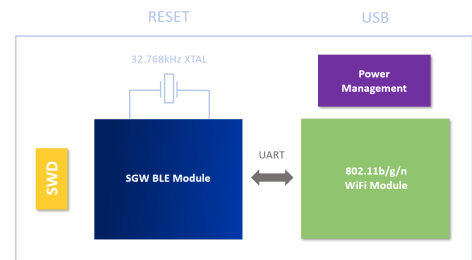
# SGW6008 BLE-WiFi Gateway

Compact and Cost-effective

The SGW6008 Gateway is the bridge linking your devices to the Internet, enabling various IoT applications. It collects data from BLE sensors and beacons, and sends it to your local or remote Cloud server by HTTPS & MQTTS protocols with TLS1.2 standard. Our built-in web interface ensures quick set-up and instant connection.

Use on its own with your own system, or with our SGW8130 BLE Edge Devices in our full-stack solution for hassle-free ambience monitoring and asset tracking in real-time.

- BLE based on Nordic nRF52840 SoC
- Over-the-air software upgrade
- Support TCP/HTTPS/MQTT/TLS1.2 server
- CE, FCC and IC-certified
- Simple and compact at 67 x 66.5 x 22.5mm



SGW6008 Block Diagram

## BLE

- SGW BLE Module based on Nordic nRF52840 SoC
- On-board PCB antenna
- 200m range line of sight

## WiFi

- Support 2.4GHz 802.11 b/g/n (single stream)
- Data rate up to 72.2Mbps
- Web-based UI for configuration
- Built-in SGW Cloud server or customized local server
- 100m range line of sight

## Typical Applications

- Collecting BLE sensor data and sending to cloud server
- Integrate external BLE tags and send to existing Cloud servers
- Combination of both



Suitable for Home and building automation Ambience monitoring Industrial mesh networks Asset tracking and more

## Specifications

Absolute Maximum Rating	
Power Supply	5.5V DC
Storage Temperature	-20°C to 80°C

Recommended Operating Conditions	
Power Supply	5.0V DC
Operating Temperature	-10°C to 60°C

General	
Module	SGW BLE Module
Operating System	Amazon FreeRTOS
Protocol	TCP/HTTPS/MQTT/TLS1.2
Power Input	1A @5V DC, micro-USB interface
Certification	CE, FCC and IC certified
Size	67 x 66.5 x 22.5mm

BLE RF Performance	
Radio Operating Frequencies	2402MHz ~ 2480MHz
Radio On-air Data Rate	1Mbps
Transmit Power	+8dBm
Antenna	Onboard PCB Antenna
Range	Up to 200 meters (open space)

WiFi Performance	
Wireless Standard	IEEE 802.11b/g/n (single stream)
Radio Operating Frequencies	2412MHz ~ 2484MHz
Radio On-air Data Rate	IEEE 802.11b, 1 - 11Mbps IEEE 802.11g, 6 - 54Mbps IEEE 802.11n (2.4GHz), 72.2Mbps
Transmit Power	17±3dBm
Antenna	Onboard PCB antenna
Security	WPA/WPA2
Encryption	WEP/TKIP/AES

## Product Code

**SGW6008A** : BLE-WiFi Gateway for use with SGW8130A 3-in-1 BLE Sensor (Temperature, Humidity and Light Intensity) with LED Indicator  
**SGW6008B** : BLE-WiFi Gateway for use with SGW8130B 2-in-1 BLE Sensor (Temperature and Humidity) with LED Indicator  
**SGW6008C** : BLE-WiFi Gateway for use with SGW8130C Low-maintenance BLE Beacon Transmitter

## About Us

SG Wireless is the full-stack IoT solutions provider launched by Hong Kong-based EMS Season Group. With extensive wireless experience and global manufacturing capabilities, SG Wireless covers every step of the IoT journey from design to production to turn IoT concepts into market-ready products.



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