

The Sensedge Go works seamlessly with RAK Soho Series.



WisGate Soho Lite 8-Channel Indoor Gateway for LoRaWAN®

Model: RAK7266



Product Variants Overview

Kaiterra Product Name	Kaiterra SKU
NA RW66 Gateway	GW-66-NA-915M-EG915Q-NA
EMEA RW66 Gateway	GW-66-EMEA-868M-EG915U-EU
APAC RW66 Gateway	GW-66-APAC-915M-EG915U-EU

Features

Hardware

- 8 LoRa channels
- Supports 2.4 GHz WiFi, with AP mode enabled by default for easy configuration
- 100M Base-T Ethernet port (for network access, no PoE)
- RP-SMA LoRa antenna connector
- An integrated LTE Cat 1 module for cellular backhaul
- Multi backhaul options with Ethernet, WiFi, and Cellular
- Breathinglight for visual status indication

Software

- WisGateOS 2: A secure, OpenWrt-based OS developed by RAK for enhanced stability and flexibility.
- Extension add-ons for customized gateway functionality:
 - Compatible with WisGateOS 2 version 2.2.x or later
 - Compatible with WisGateOS 2 versions 2.0.x and 2.1.x
- WisDM for remote management and monitoring
- Built-in Network Server
- Basic Station and Packet Forwarder modes
- LoRa Frame Filtering (node whitelisting in Packet Forwarder mode)
- MQTT v3.1 Bridging with TLS encryption
- LoRa frame buffering in Packet Forwarder mode in case of NS outage, ensuring no data loss

Note: Product specifications are subject to change without notice. Feature availability may differ by model.

Main Specifications

Feature	Specifications
Computing	MT7628, 128 MB DDR2 RAM
LoRa Feature	<ul style="list-style-type: none">• SX1302 / SX1303 Mini PCIe card (The default configuration uses the SX1302 Mini PCIe card, with an SX1303 version available upon request.)• 8 Channels• Frequency: EU868/IN865/RU864/US915/AU915/KR920/AS923-1-2-3-4/EU433/CN470• LoRa Radio: Refer to the LoRa Radio Specifications section for detailed information.
WiFi Feature	<ul style="list-style-type: none">• Frequency: 2.4 GHz (802.11b/g/n)• Channels: 1-13• WiFi Radio: Refer to the WiFi Radio Specifications section for detailed information.
Cellular	<ul style="list-style-type: none">• Nano SIM Card: 12 mm x 9 mm x 0.67 mm• Supports Quectel EG915U-EU / EG915U-LA / EG915Q-NA (IoT / M2M -LTE Cat 1 module)• LTE Radio: Refer to the LTE Radio Specifications section for detailed information.
Power Supply	12 VDC
Antenna	<ul style="list-style-type: none">• LoRa: External antenna / RP-SMA connector• WiFi: Internal antenna• LTE: Internal antenna or External antenna / RP-SMA connector
Ingress Protection	IP30
Enclosure Material	Plastic (PC+ABS)
Weight	0.3 kg
Dimensions	166 mm x 127.5 mm x 36 mm Gateway only (no antenna, no bracket)
Operating Conditions	<ul style="list-style-type: none">• Operating Temperature: -10° C to + 55° C• Storage Temperature: -40° C to + 85° C• Operating Humidity: 0~95% RH non-condensing• Storage Humidity: 0~95% RH non-condensing
Installation Method	<ul style="list-style-type: none">• Desktop mounting• Wall mounting (via included bracket)• Rail mounting (via included bracket)

Hardware

The hardware specification covers the interfacing of the RAK7266 gateway and its corresponding functionalities, along with the parameters and standard values of the board.

RF Specifications

LoRa Radio Specifications

Parameter	Specifications
Operating Frequency	EU868/IN865/RU864/US915/AU915/KR920/AS923-1/2/3/4/EU433/CN470
Transmit Power	27 dBm (Max)
Receiver Sensitivity	-139 dBm (Min)

WiFi Radio Specifications

Parameter	Specifications
Wireless Standard	IEEE 802.11b/g/n
Operating Frequency	ISM band: 2.412-2.472 GHz
Operation Channels	2.4 GHz: 1-13
Transmit Power: per chain (The max power differs depending on local regulations.)	<ul style="list-style-type: none">• 802.11b• 19 dBm @ 1 Mbps• 19 dBm @ 11 Mbps• 802.11g• 18 dBm @ 6 Mbps• 16 dBm @ 54 Mbps• 802.11n (2.4 GHz)• 18 dBm @ MCS0 (HT20)• 16 dBm @ MCS7 (HT20)• 17 dBm @ MCS0 (HT40)• 15 dBm @ MCS7 (HT40)
Receiver Sensitivity (Typical)	<ul style="list-style-type: none">• 802.11b• -95 dBm @ 1 Mbps• -88 dBm @ 11 Mbps• 802.11g• -90 dBm @ 6 Mbps• -75 dBm @ 54 Mbps• 802.11n (2.4 GHz)• -89 dBm @ MCS0 (HT20)• -72 dBm @ MCS7 (HT20)• -86 dBm @ MCS0 (HT40)• -68 dBm @ MCS7 (HT40)

LTE Radio Specifications

Module / Region	Supported Bands
EG915U-EU for EMEA/Brazil/Australia/ New Zealand Region	<ul style="list-style-type: none">• LTE FDD: B1 / B3 / B5 / B7 / B8 / B20 / B28• GSM: B2 / B3 / B5 / B8
EG915U-LA for Latin America Region	<ul style="list-style-type: none">• LTE FDD: B2 / B3 / B4 / B5 / B7 / B8 / B28 / B66• GSM: B2 / B3 / B5 / B8
EG915Q-NA for North America Region	<ul style="list-style-type: none">• LTE FDD: B2 / B4 / B5 / B12 / B13 / B66 / B71

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Software

The RAK7266 gateway runs on WisGateOS 2, a robust software platform designed for efficient network management and integration. Below are the key software features and capabilities:

For more detailed information on software configurations and usage, refer to the WisGateOS 2 User Guide .

LoRa	Network	Management
Gateway OTA management	Wi-Fi AP mode	WisDM
LoRaWAN Packet Forwarding (Packet Forwarder, Basics Station)	Wi-Fi Client mode	SSH2
Frequency Band Setup	LTE APN Setup	Firmware update
Country Code Setup	VLAN (802.1Q) Support	Built-in Network Server
TX Power Setup	Uplink backup	MQTT Bridge
Data logger	Firewall	OpenVPN, Ping Watch Dog
Location Setup	DHCP Server/Client	Web UI
LoRa Statistics	NTP	
Supports Class A and C		
Server Address and Port Setup		

Certification

- FCC Certification
- ISED Certification
- REACH Certification