

The Sensedge Go works seamlessly with RAK Edge Series.



WisGate Edge Lite 2
Compact Indoor LoRaWAN®
Gateway

Model: RAK7268CV2 (With LTE)



Product Variants Overview

Kaiterra Product Name	Kaiterra SKU
AU RW68 (PoE) Gateway	GW-68-AU-915M-EC25-AU-POE
JP RW68 (PoE) Gateway	GW-68-JP-915M-EC25-J-POE

Features

Hardware

- 8 LoRa channels
- Supports 2.4 GHz WiFi AP for easy configuration
- 100M Base-T Ethernet with PoE (Power over Ethernet)
- RP-SMA LoRa antenna connector
- Multi-backhaul options with Ethernet, WiFi, and Cellular
- SD card for log backup and LoRa frame buffering (in case of backhaul failover)
- LTE Cat 4 network
- Breathing light for visual monitoring the gateway's status

Software

- [WisGateOS 2](#) for enhanced security and functionality
- 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
- Basics Station and Packet Forwarder modes
- LoRa Frame Filtering (node whitelisting in Packet Forwarder mode)
- MQTT v3.1 Bridging with TLS encryption (compatible with ChirpStack LNS)
- 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 Mini PCIe card• 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 (2.4 GHz)• 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 EG95-E/EG95-NA/EC25-J/EC25-AU/EC25-E (IoT/M2M -optimized LTE Cat 4 Module)• LTE Radio: Refer to the LTE Radio Specifications section for detailed information.
Power Supply	<ul style="list-style-type: none">• PoE (IEEE 802.3 af), 36-57 VDC – supported by all models• 12 VDC - 1 A – available on selected models• 9-24 VDC – available on selected models• Power consumption: 3 W (typical)
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 (depending on version)
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

This section provides an overview of the hardware specifications for the RAK7268V2 / RAK7268CV2 gateway, including its interfaces, core functions, and key board parameters.

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
Frequency	ISM band: 2.412-2.472 GHz
Channels	1-13 (2.4 GHz)
Transmit Power (The max power maybe different depending on local regulations): per chain	<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
EG95-E (EMEA Region)	<ul style="list-style-type: none">• LTE FDD: B1/B3/B7/B8/B20/B28A• WCDMA: B1/B8• GSM/EDGE: B3/B8
EG95-NA (North America)	<ul style="list-style-type: none">• LTE FDD: B2/B4/B5/B12/B13• WCDMA: B2/B4/B5
EC25-J (Japan)	<ul style="list-style-type: none">• LTE FDD: B1/B3/B8/B18/B19/B26• WCDMA: B1/B6/B8/B19• LTE TDD: B41
EC25-AU (LATAM / AU / NZ)	<ul style="list-style-type: none">• LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28• WCDMA: B1/B2/B5/B8• LTE TDD: B40• GSM: B2/B3/B5/B8
EC25-E (Korea/India)	<ul style="list-style-type: none">• LTE FDD: B1/B3/B5/B7/B8/B20• WCDMA: B1/B5/B8• LTE TDD: B38/B40/B41• GSM: B3/B8
Other PCIE LTE modules	Optional support for global bands (custom module)

Note: Product specifications are subject to change without notice.

Software

The RAK7268V2/RAK7268CV2 gateway runs on WisGateOS 2, a robust software platform designed for efficient network management and integration.

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

- ANATEL Certification
- CE Certification
- ISED Certification
- FCC Certification
- JRL Certification
- JTBL Certification
- KC Certification
- RCM Certification
- REACH Certification
- RoHS Certification
- RSM Certification
- UKCA Certification
- WPC Certification