

# RAK7289V2/RAK7289CV2 WisGate Edge Pro

Thank you for choosing **RAK7289V2/RAK7289CV2 WisGate Edge Pro** in your awesome IoT Project! 🎉 To help you get started, we have provided you with all the necessary documentation for your product.

- [Quick Start Guide](#)
- [Supported LoRa Network Servers](#)
- [Datasheet](#)

## Product Description

RAK7289 V2 WisGate Edge Pro is the latest edition of the RAK Edge Series. It is an ideal product for IoT commercial deployment. With its industrial-grade components, it achieves a high standard of reliability. The new RAK7289 V2 supports up to 16 LoRa channels, multi-backhaul with Ethernet, Wi-Fi, and Cellular connectivity. Optionally, there is a dedicated port for different power options, solar panels, and batteries. Its new enclosure is designed to allow the LTE, Wi-Fi, and GPS antennas to be inside the enclosure.

The RAK7289 V2 supports WisGateOS 2, which is based on the latest OpenWRT kernel and accommodates the latest security updates like IPv6, OpenSSL 1.1 support, multiple accounts access, and more. The web UI has a fresh new look, with more user-friendly information tooltips.

Simply said, the RAK7289 V2 is suited for any use case scenario, be it rapid deployment or customization with regard to UI and functionality.

### ⚠ WARNING

This product is designed to be powered by 12 V<sub>DC</sub> via a dedicated power port. The use of solar chargers is prohibited, as they may provide overvoltage and cause damage to the device. We strongly advise against using such chargers with this product, and any damage resulting from their use will void the warranty.

## Product Features

### Hardware

- IP67/NEMA-6 industrial-grade enclosure with cable glands
- PoE (802.3af) + Surge Protection
- Dual LoRa Concentrators for up to 16 channels
- Backhaul: Wi-Fi, Ethernet, LTE (optional, available with RAK7289C)
- GPS
- Supports DC 12 V or solar power supply with electricity monitoring (Solar Kit optional)
- Internal antenna for Wi-Fi, GPS, and LTE, external antenna for LoRa
- Dying-gasp (optional)

### Software

- Built-in Network Server (full LoRaWAN support V 1.0.3)
- OpenVPN
- Software and UI sit on top of OpenWRT
- Full LoRaWAN Stack support with Semtech SX1303
- LoRa Frame filtering (node whitelisting)

- MQTT v3.1 bridging with TLS encryption
- Buffering of LoRa frames in Packet Forwarder mode in case of NS outage (no data loss)
- Full-duplex (optional)
- Listen Before Talk (optional)
- Fine timestamping (optional)

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