


RAK7249 WisGate Edge Max

Thank you for choosing **RAK7249 WisGate Edge Max** 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](#)
- [Datasheet](#)
- [Supported LoRa Network Servers](#)
- [OpenWRT Recovery Procedure](#)
- [Use the MQTT Broker Like a Pro + Examples](#)
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Product Description

RAK7249 WisGate Edge Max is an ideal product for IoT commercial deployment. Its modularity and customization options allow for flexibility when deploying a solution. With its industrial-grade components, it achieves a high standard of reliability.

The Gateway provides a solid out of the box experience for quick deployment. Additionally, since its software and UI sits on top of OpenWRT it is perfect for the development of custom applications (via the open SDK).

Thus the RAK7249 is suited for any use case scenario, be it rapid deployment or customization with regards to UI and functionality.

Product Features

Hardware

- **IP67/NEMA-6** industrial grade enclosure with cable glands
- **PoE (802.3 af) + Surge Protection**
- Dual LoRa Concentrators for up to **16 channels**
- **Backhaul:** Wi-Fi, LTE and Ethernet
- **GPS L70 GPS Module**
- Powered by **PoE**, optional for battery, solar or AC power supply.

Software

- Built-in LoRa Server
- OpenVPN
- Software and UI sit on top of **OpenWRT**
- LoRaWAN 1.0.3
- **LoRa Frame filtering** (node whitelisting)
- **MQTT v3.1** Bridging with **TLS encryption**
- **Buffering of LoRa frames** in case of NS outage (no data loss)