WisGate Edge PRO

SKU TPX00095   **Barcode** 763004920332

Take IoT further than ever with Arduino's industrial-grade gateways for LoRaWAN® connectivity, designed to easily bring secure and reliable connectivity to your outdoor projects.

Overview

The Arduino Pro WisGate Edge Pro powered by RAKwireless™ ensures secure and reliable connectivity for a wide range of professional applications and is suitable for medium-sized to wide area coverage in industrial environments and remote regions. Its high transmission power and 2x fiberglass antennas with 5dBi gain provide extensive coverage in open environments, making it the perfect fit for IoT commercial outdoor deployment – required for example for parking sensors, remote fleet management, livestock tracking and geofencing, and soil monitoring solutions that maximize crops' yield.

It offers an intuitive out-of-the-box user experience for easy setup and diagnostics, as well as exhaustive tutorials and technical documentation, and includes an on-pole and DIN-rail installation kit.

Complementing the MKR and Portenta SOM boards, the Arduino IoT Cloud platform and the other LoRa® components in the Arduino ecosystem, WisGate Edge Pro enables you to create and deploy complete and industrialized IoT/IIoT and I4.0 applications – wrapping both RAKwireless™'s specific expertise and Arduino's smooth user experience into high-quality solutions that connect your LoRa® devices better than ever, from smart cities to smart agriculture.

Key benefits include:

- Ideal for IoT commercial outdoor deployment

- High transmission power and 2x fiberglass antennas with 5dBi gain

- Limited cabling for installation thanks to Power over Ethernet (POE)

- Kit for installation on pole and DIN-rail with included adapter

- Rapid setup and diagnostics, backup and data logging thanks to SD card slot

- Secure Ethernet, Wi-Fi or LTE connectivity

- WisGateOS, powered by RAKwireless™, based on open source OpenWRT and fully customizable

- Ideal to implement private networks directly connected to cloud platforms; compatible with public networks

- Comprehensive technical documentation by RAKwireless™

Looking for an indoor gateway for LoRaWAN® connectivity?

Check out WisGate Edge Lite 2, designed especially for applications needing deep indoor coverage.

Need Help?

Check the Arduino Forum for questions about the Arduino Language, or how to make your own Projects with Arduino. If you need any help with your product, please get in touch with the official Arduino User Support as explained in our Contact Us page.

Warranty

You can find your board warranty information here.

Tech specs

Processor	MT7628, DDR2 RAM 128 MB 32 MB flash memory 2x SX1303 LoRa mPCIe cards
LoRa®	• EU868/US915/AS923/AU915 • LoRaWAN 1.03 stack • LoRa® Packet Forwarder • Basic Station • Network Server • Max Transmit Power 27 dBm • Min Receiver Sensitivity -139 dBm • Listen before Talk
Interfaces	• Ethernet RJ45 10/100 Mbps • USB • SD-CARD and SIM slots
Connectivity	• IEEE 802.11b/g/n WiFi • LTE (EMEA) • LTE FDD: B1/B3/B7/B8/B20/B28A • WCDMA: B1/B8 • GSM/EDGE: B3/B8 • LTE (USA) • LTE FDD: B2/B4/B5/B12/B13 • WCDMA: B2/B4/B5
Dimensions	240 x 240 x 80 mm
Software Features	OpenVPN, Ping Watch Dog, SSH2, NTP, Router module NAT, Firewall, Wi-Fi AP mode, DHCP Server/Client, MQTT/S Bridging, LoRa® Data Logger, LoRa® Statistics, LoRa® Frame Filtering, GPS
Power supply	• 12 Vdc, 1A • PoE (IEEE 802.3 af), 37~57Vdc
Antennas	• 2x LoRa® fiberglass antennas 5dBi gain • LTE Internal antenna • Wi-Fi Internal antenna
Certifications	CE, FCC, ACMA/RCM, UKCA IP 67 rating