

# **Edge Lite**

Indoor LoRaWAN® Gateway





















#### **Product Overview**

**Edge Lite** is an ideal indoor LoRaWANproduct for IoT commercial deployment. With its industrial-grade components, it achieves a high standard of reliability.

Supports up to 8 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. With its new enclosure design, it allows the LTE and Wi-Fi antennas to be inside the enclosure.

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

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

#### **Product Features**

Hardware	Software
Supports DC 12 V	Built-in Network Server
oE (802.3af) + Surge Protection	OpenVPN
Dual LoRa Concentrators for up to 8 channels	Software and UI sit on top of OpenWRT
Backhaul: Wi-Fi, LTE, and Ethernet	LoRaWAN 1.0.3
IP67/NEMA-6 industrial-grade enclosure with cable glands	<b>LoRa Frame filtering</b> (node whitelisting)
Internal antenna for Wi-Fi, GPS, and LTE, External antenna for LoRa	MQTT v3.1 Bridging with TLS encryption
Dying-Gasp (optional)	Buffering of LoRa frames in Packet Forwarder mode in case of NS outage (no data loss)

Get in touch with us!







## **Technical Specification**

### Wi-Fi Radio Specifications

Wireless Standard	IEEE 802.11 b/g/n
Operating Frequency	ISM band: 2.412~2.472 (GHz)
Operation Channels	2.4 GHz: 1-13
Transmit Power	802.11b
	19dBm @1Mbps / 11Mbps
(The max power may differ depending on local regulations) - per chain	802.11g
	18dBm @6Mbps / 16dBm @54Mbps
	802.11n (2.4G)
	18 dBm @MCS0 (HT20) / 16 dBm @MCS7 (HT20) / 17 dBm @MCS0 (HT40) / 15 dBm @MCS7 (HT40)

#### LoRa Radio Specifications

Operating Frequency	EU433 / CN470 / EU868 / US915 / AS923 / AU915 / IN865 / KR920
Transmit Power	27 dBm (Max)
Receiver Sensitivity	-139 dBm (Min)



#### Interfaces

The function of the Reset key is as follows:

- **Short press:** Restart the gateway.
- Long press (5s and above): Restore factory settings.

### LEDs status description:

LED 1 (PWR)		Power indicator - The LED is on when the device
		power is on
LED 2 (ETH)		ON - Linkup
		OFF - Linkdown
		Flicker - Data transmitting and receiving
		<b>ON</b> - LoRa 1 is working
LED 3 (LoRa 1)		<b>OFF</b> - LoRa 1 is not working
		<b>Flicker</b> - Indicate LoRa 1 Packet receiving and sending
AP Mode:  LED 4 (WLAN)  STA Mode:	AP Mode:	ON - The AP is up
	AP Mode.	Flicker - Data receiving and sending
	STA Mode:	ON - Connected
		Slow flicker (1 Hz) - Disconnected
		Flicker - Data receiving and sending



	ON - Voice is working
LED 5 (LTE)	Slow Flicker (1800 ms High / 200 ms Low) - Network searching
	Slow flicker (200 ms High / 1800 ms Low) - Idle
	Fast flicker (125 ms High / 125 ms Low) - Ongoing data transfer
	<b>ON</b> - LoRa 2 is working
LED 6 (LoRa 2 for 16 channel)	<b>OFF</b> - LoRa 2 is not working
	<b>Flicker</b> - Indicate LoRa 2 Packet receiving and sending

## Certification















