TEKTELIC communications

LoRa Alliance Member

KONA Mega EU IoT Gateway

High Capacity LoRaWAN® Gateway for Global Deployments

The **KONA Mega EU IoT Gateway** provides network operators with a field-proven product for the deployment of LoRaWAN® networks in the global EU868 band. The KONA Mega Gateway offers superior RF performance with multiple Rx/Tx antennas, which improve the end device SNR resulting in improved link budget and better battery performance. To mitigate real world RF interference the KONA Mega gateway comes with built-in custom High-Q RF Cavity filters that offer high levels of Rx Selectivity and Out-of-Band rejection.

It is ideal for public and private network operators that require cost-effective and reliable gateways with multiple Rx and Tx Channels to maximize their network investment for years to come.

Key Product Differentiators

- High availability carrier-grade design with support of in-service configuration and software updates.
- Environmentally hardened aluminium enclosure fully tested to withstand extreme temperature conditions.
- Innovative multiple antenna configuration supporting Rx diversity for 32 channels.
- Excellent out-of-band rejection of Interference from other networks, such as Cellular and Paging.
- Day-One scalability supporting millions of Rx messages per day.
- Easy to deploy, supporting different backhaul and power options.
- Fully integrated with the broader eco-system of LoRa™ network servers and sensors.

Key Features

- Time Duplex 32 + 4 Rx / 4 Tx
- Dual Antenna Support for Rx Diversity
- Double Simultaneous Tx Channels
- High Linearity LNA/Receiver
- Integrated Bandpass Filter
- Precise Network Synchronization (GPS)
- Integrated GPS Holdover
- Up To 14 dBM Tx Power per Antenna
- Geolocation Support
- Hardened Carrier Grade Enclosure
- Integrated Cellular Modem
- Copper and Optical Ethernet Backhaul
- Rated IP67 Enclosure
- EU 868 Channel Plan

INFO@TEKTELIC.COM

+1.403.338.6900

WWW.TEKTELIC.COM

2025-08-12 | YV

KONA Mega EU IoT Gateway

High Capacity LoRaWAN® Gateway for Global Deployments

Technical and Functional System Specifications

Mechanical Parameters

MTBF	450,000 hours
DC Power Consumption	20 W (Typical)
Operational Temperature	-40°C to +60°C
Operational Humidity	10% to 100% Condensing
Ingress Protection	IP67
Size	222.2 x 267.6 x 101 mm
Weight	5 kg
Volume	6 L

LoRa Radio Parameters

EU Channel Plan	863 - 870 MHz
Tx Power	2 x 14 dBm
Rx Sensitivity	-142 dBm (SF12, 293 bits/sec)
Rx Noise Figure	3.5 dB
Rx Linearity	-10 dBm
Rx Dynamic Range	70 dB Analog, 100+ dB Digital

Software and Management

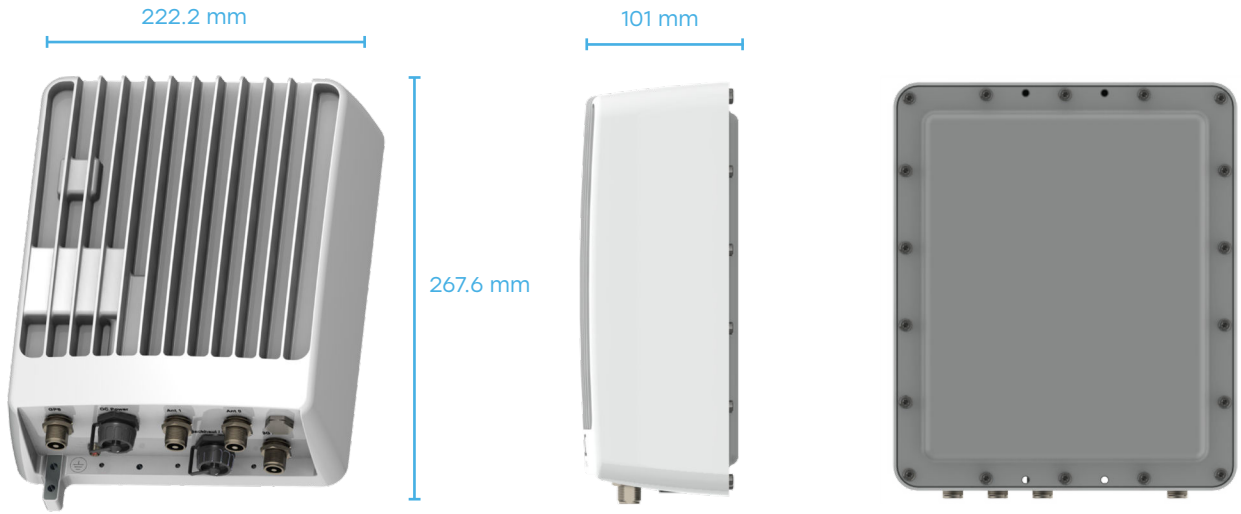
Tools	Access Control List management
	Cellular Parameter Configuration
	System Health Monitor
	Radio Configuration and Control
	Remote Software Upgrade
	Active and Passive image management
	Factory image provisioning
	Field Configuration Tool
Networking	DHCPv4 client
	TFTP server
	HTTP server
	Firewall and Access Lists

Interfaces

Ethernet Backhaul	RJ-45 & PoE (802.3bt)
GPS	N-Type
Cellular Backhaul	N-Type (Optional)
LoRa Antenna (2 ports)	N-Type (2nd Port Optional)
Power	37-57 VDC or PoE++ (802.3bt)

Regulatory Compliance

Regulatory	CE: RED 2014/53/EU



TEKTELIC Communications is a premier supplier of best-in-class LoRaWAN® IoT Gateways, Sensors, and custom applications. These elements combined provide a powerful end-to-end solution that can be easily, quickly, and cost-effectively deployed to address the most demanding IoT challenges.

For more information, please visit www.tektelic.com