

# 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 maximise 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 16 + 16 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

- » EU868 ISM Band
- » Time Duplex 16 + 16 Rx / 4 Tx
- » Dual Antenna Support for Rx Diversity
- » Double Simultaneous Tx Channels
- » Integrated Cellular 3G/4G Modem
- » Copper and Optical Ethernet Backhaul
- » IP67 Design
- » Hardened Carrier Grade Enclosure
- » **2 x 14 dBm Tx Power**
- » High Linearity LNA/Receiver
- » Integrated Cavity Filter
- » Precise Network Synchronization (GPS)
- » Integrated GPS Holdover
- » Geolocalization Support

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### 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	5.9 L

#### LoRa Radio Parameters

EU ISM Band	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

Tx to Rx Isolation 75 dB

#### Software and Management

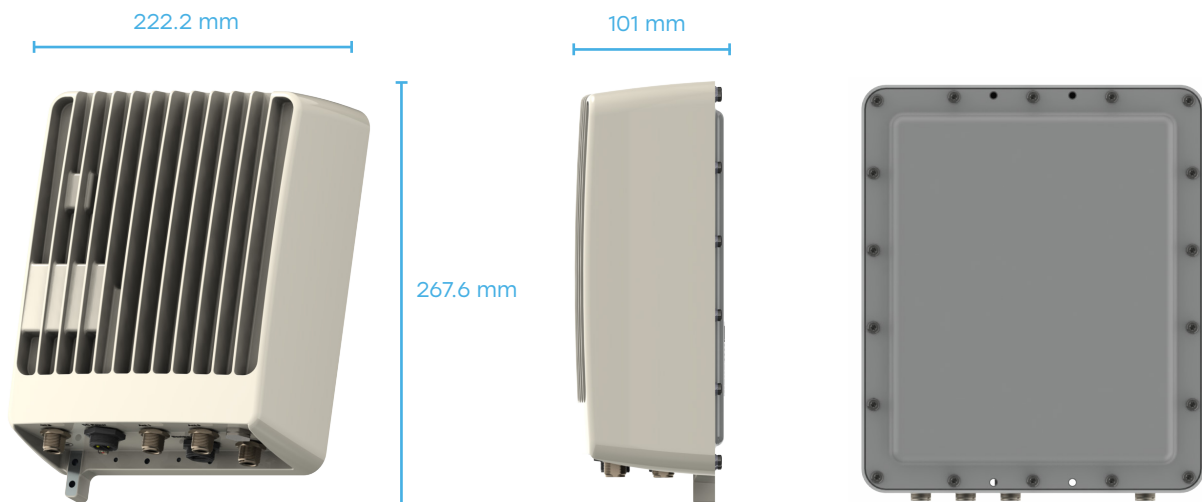
Tools	Access Control List management
	3G/4G Parameter Configuration
	System Health Monitor
	Radio Configuration and Control
	Remote Software Upgrade
	Active and Passive image management
	Factory image provisioning
	Field Configuration Tool
Networking	DHCPv4 client
	TFTP server
	HTTP server
	Firewall and Access Lists

#### Interfaces

Ethernet	RJ-45 & PoE (802.3bt)
GPS	N-Type
Cellular Backhaul (3G/4G)	N-Type (Optional)
Hybrid Optical and DC Power	Harting Hybrid (Optional)
LoRa Antenna (2 ports)	N-Type (2nd Port Optional)
Power	37-57 VDC or PoE++ (802.3bt)

#### Regulatory Compliance

Safety	UL / CSA / EN / IEC 62368-1
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](http://www.tektelic.com)