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 builtin 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

» EYU868 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

» Newtork Synchronization (GPS)

» Integrated GPS Holdover

» Geolocalization Support

»

»

KONA Mega EU IoT Gateway
High Capacity LoRaWAN®Gateway for Global Deployments

Technical and Functional System Specifications

Mechanical Parameters

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

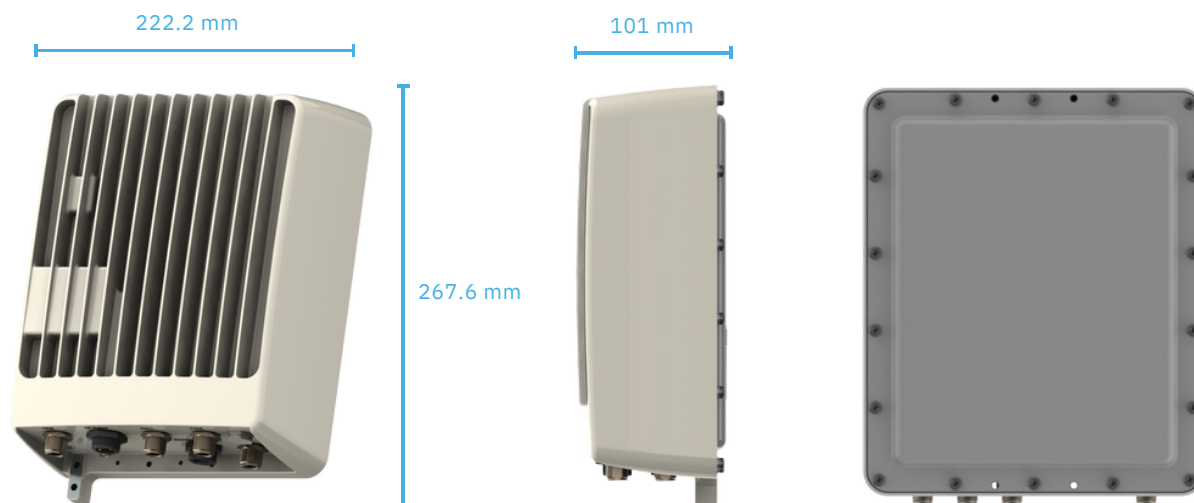Tx to Rx Isolation   75 dB

Software and Management

Tools	Access Control List managment
	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

222.2 mm

101 mm

267.6 mm

UC-WiRELESS
UNIFIED COMMUNICATIONS - ANYTHING WIRELESS