KONA Mega 32-Channel IoT Gateway

High Capacity LoRaWAN® Gateway for Global Deployments



The **KONA Mega 32-Channel IoT Gateway** provides network operators with a field-proven solution for deploying LoRaWAN® networks across multiple regional variants: EU868, IN865, AU915, AS923-1/2/3/4, KR920, JP923, and BR915. 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.

CE IP 67

- REGION WIDE NETWORK COVERAGE
- INDUSTRIAL OIL & GAS
- HIGH DENSITY NETWORKS
- COMMERCIAL FARMING
- SMART UTILITIES
- REMOTE MONITORING
- SMART CITIES
- REMOTE ASSET TRACKING

Key Features

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

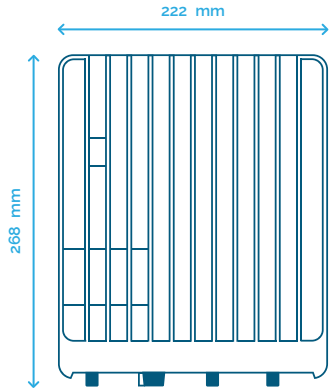
Key Product Differentiators

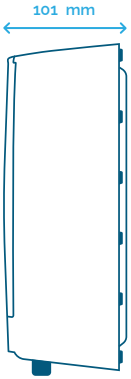
- High availability carrier grade design with support of in-service configuration and software updates
- Environmentally hardened aluminium enclosure fully tested to withstand extreme temperature conditions.
- Innovative multiple antenna configuration supporting Rx diversity for 32 channels.
- Excellent isolation between the Tx and Rx bands, with strong out-of-band rejection of Cellular and adjacent-band interference
- 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.

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 x 268 x 101 mm
Weight	5 kg
Volume	6 L
LoRa Radio Parameters	
Channel Plans	EU868, IN865, AU915, AS923-1,2,3,4, KR920, JP923, BR915
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
Regulatory Compliance	
Regulatory	CE: RED 2014/53/EU FCC: 15.247, 15.109, 15.209 ISED: RSS - 247, RSS - Gen
Safety	UL / CSA / EN / IEC 62368-1

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
	Kona Link 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	N-Type (2nd Port Optional)
Power	37-57 VDC or PoE++ (802.3 bt)





TEKTELIC Communications is a premier supplier of complete LoRaWAN® IoT solutions. Our end-to-end systems combine network infrastructure, devices, and applications to enable easy, fast, and cost-effective deployment for the most demanding IoT challenges.

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