KONA Mega 64-Channel IoT Gateway

High Capacity LoRaWAN® Gateway for US915 Deployments

The **KONA Mega 64-Channel IoT Gateway** provides network operators with a carrier-grade product for the deployment of LoRaWAN® Internet of Things networks. The Gateway enables massive scalability in a compact form factor by supporting up to 12 million messages per day.



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

IP 67

Key Features

- 64-Channel FDD Architecture
- Frequency Duplex 64+8 Rx / 4 Tx
- Dual Antenna Support for Rx Diversity
- Double Simultaneous Tx Channels
- Integrated Cellular Modem
- Copper Ethernet Backhaul
- IP67 Design
- Hardened Carrier Grade Enclosure
- 1 Watt (2 x 27 dBm) Tx Power
- High Linearity LNA/Receiver
- Integrated Cavity Filter
- Precise Network Synchronization (GPS)
- Integrated GPS Holdover
- Geolocation Support

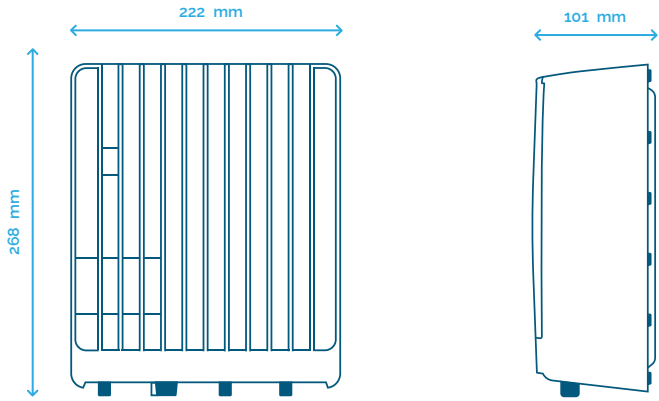
Key Product Differentiators

- 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.
- Full duplex operation makes all receive and transmit channels available simultaneously
- Excellent isolation between the Tx and Rx bands, with strong out-of-band rejection of Cellular and adjacent-band interference.
- Day-One scalability with support of up to 12 million received 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	902 - 915 MHz (Rx)
	923 - 928 MHz (Tx)
Tx Power	1W (2 x 27 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	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
	Flight Recorder
	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	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++ (802.3 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.

www.tektelic.com info@tektelic.com +1 (403) 338-6900

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