

# KONA Macro IoT Gateway

## Indoor LoRaWAN® Gateway for Mission Critical Deployments

The KONA Macro IoT Gateway is an ideal solution for operators and enterprises that require a very scalable low cost LoRaWAN® gateway that minimizes network TCO while improving coverage and capacity.



SMART CITIES	ENVIRONMENTAL MONITORING
OUTDOOR INDUSTRIAL FACILITIES	MULTI-BUILDING CAMPUSES
SMART AGRICULTURE	SMART METERING
ASSET TRACKING	WASTE MANAGEMENT

### Key Features

- US915, EU868, AU915, AS923 Channel Plans
- Hardened Carrier Grade Enclosure
- Frequency Duplex 16 Rx / 2 Tx (NA)
- 27 dBm Tx Power
- Time Duplex 16 Rx / 2 Tx (Int.)
- Integrated Cavity Filter
- Integrated Cellular Modem
- Precise Network Synchronization (GPS)
- Integrated GPS and Cellular Antenna
- Geolocation (optional)
- IP67 Design

\* Enabled according to applicable regional standards

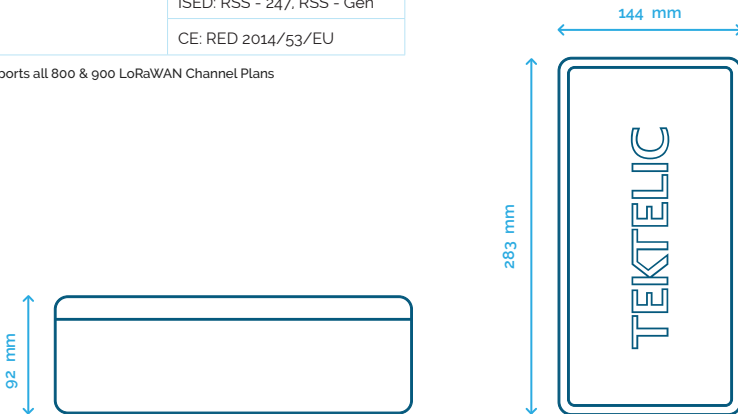
### Key Product Differentiators

- Optimize coverage and capacity with a cost-effective and extremely compact LoRaWAN® gateway.
- High availability carrier grade design with support for in-service configuration and software updates.
- Quick and easy deployment made possible with custom mounting options, including utility pole, lamp post, tower, roof or wall mounts.
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- Reduce set-up costs with plug-and-play installation utilizing the custom provisioned factory image.
- Excellent out of band rejection of Interference from other networks such as Cellular and Paging.
- Lower site operational costs due to low power consumptions and passive cooling.
- Fully integrated with the broader eco-system of LoRa™ network servers and sensors.

**Technical and Functional System Specifications**

Mechanical Parameters		Software and Management	
MTBF	850,000 hours	Tools	Access Control List management
DC Power Consumption	14 W (Typical)		Cellular Parameter Configuration
Operational Temperature	-40°C to +60°C		System Health Monitor
Operational Humidity	10% to 100% Condensing		Radio Configuration and Control
Ingress Protection	IP67		Remote Software Upgrade
Size	144 x 283 x 92 mm		Active and Passive Image Management
Weight	2.6 kg		Factory image provisioning
Volume	3.7 L		Field Configuration Tool
<b>LoRa Radio Parameters</b>			Networking
Channel Plans (FDD)	US915	TFTP server	
Channel Plans* (TDD)	EU868, AU915, AS923	HTTP server	
Tx Power	27 dBm	Firewall and Access Lists	
Rx Sensitivity	-142 dBm (SF12, 293 bits/sec)		
Rx Noise Figure	3.5 dB		
Rx Linearity	-10 dBm	<b>Interfaces</b>	
Rx Dynamic Range	70 dB Analog, 100+ dB Digital	Ethernet Backhaul	RJ-45
<b>Regulatory Compliance</b>		GPS	Internal antenna
Safety	UL / CSA / EN / IEC 62368-1	Cellular Backhaul	Internal Antenna
Regulatory	FCC: 15.247, 15.109, 15.209	LoRa Antenna	N-Type
	ISED: RSS - 247, RSS - Gen	Power	37-57 VDC or PoE (802.3at)
	CE: RED 2014/53/EU		

\*Supports all 800 & 900 LoRaWAN Channel Plans



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.