KONA Macro IoT Gateway

Outdoor 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

CE IP 67

Key Features

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

* Enabled according to applicable regional standards

Key Product Differentiators

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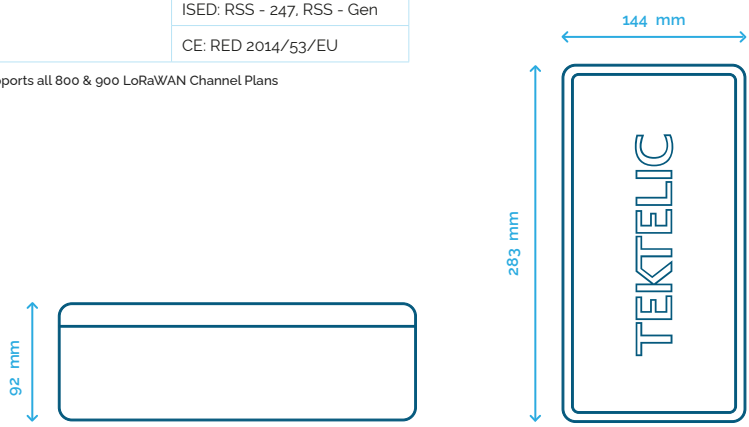
- Excellent out of band rejection of Interference from other networks such as Cellular and Paging.
- Fully integrated with the broader eco-system of LoRa™ network servers and sensors.

Technical and Functional System Specifications

Mechanical Parameters	
MTBF	850,000 hours
DC Power Consumption	14 W (Typical)
Operational Temperature	-40°C to +60°C
Operational Humidity	10% to 100% Condensing
Ingress Protection	IP67
Size	144 x 283 x 92 mm
Weight	2.6 kg
Volume	3.7 L
LoRa Radio Parameters	
Channel Plans (FDD)	US915
Channel Plans* (TDD)	EU868, AU915, AS923
Tx Power	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
Regulatory Compliance	
Safety	UL / CSA / EN / IEC 62368-1
Regulatory	FCC: 15.247, 15.109, 15.209
	ISED: RSS - 247, RSS - Gen
	CE: RED 2014/53/EU

*Supports all 800 & 900 LoRaWAN Channel Plans

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
	Field Configuration Tool
Networking	DHCPv4 client
	TFTP server
	HTTP server
	Firewall and Access Lists
Interfaces	
Ethernet Backhaul	RJ-45
GPS	Internal antenna
Cellular Backhaul	Internal Antenna
LoRa Antenna	N-Type
Power	37-57 VDC or PoE (802.3at)



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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