

# KONA Micro IoT Gateway

## Indoor LoRaWAN® Gateway for Mission Critical Deployments

The KONA Micro IoT Gateway is designed for enterprise and lightweight industrial applications that require "Always On" connectivity. Configured with an internal cellular modem and a built-in battery backup, the KONA Micro IoT gateway continues to operate and transmits sensor data to the network even when the main site has lost power.



SMART HOME & OFFICE	SMART BUILDINGS	WAREHOUSES
FACILITY MANAGEMENT	SAFETY & SECURITY	SMART GREENHOUSES
SCHOOLS & UNIVERSITIES	RETAIL	

### Key Features

- US915, EU868, AU915, AS923 Channel Plans
- 27 dBm Tx Power
- 12V or PoE Power
- Operational Status LED
- Time Duplex 8 Rx / 1 Tx
- Plug & Play Operation
- Integrated Dual SIM Cellular Modem
- Factory Image for Mass Deployment
- External LoRa Antenna
- In-Service Updates
- Four Hour Battery Backup
- Listen Before Talk (LBT)\*

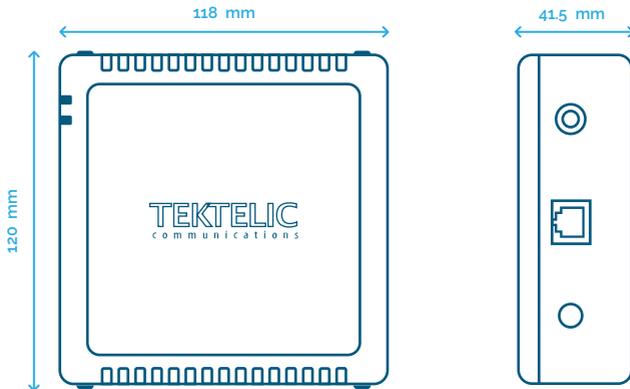
\* Enabled according to applicable regional standards

### Key Product Differentiators

- Enable critical enterprise IoT applications with 'Always On' connectivity. Battery backup and an integrated cellular modem.
- Simplify management with the Kona Pilot OAM tool.
- Reduce set up costs with plug-n-play installation using a custom provisioned factory image.
- Operational status indicated with multi-function LED.
- Improve coverage and service resulting in increased IoT application adoption and customer satisfaction.
- Fully integrated with the broader eco-system of LoRa™ network servers and sensors.

**Technical and Functional System Specifications**

Mechanical Parameters		Software and Management	
MTBF	830,000 hours	Tools	Access Control List management
DC Power Consumption	2.3 W (Ethernet Backhaul)		Cellular Parameter Configuration
	2.6 W (Cellular Backhaul)		System Health Monitor
Operational Temperature	0°C to +40°C		Radio Configuration and Control
Operational Humidity	5% to 95% Condensing		Remote Software Upgrade
Ingress Protection	IP30		Active and Passive Image Management
Size	120 x 118 x 41.5 mm		Factory image provisioning
Weight	350 g (<200 g without battery)	Field Configuration Tool	
LoRa Radio Parameters		Networking	DHCPv4 client
Channel Plans*	US915, EU868, AU915, AS923		TFTP server
Tx Power	14 dBm to 27 dBm		HTTP server
Rx Sensitivity	-141dBm (SF12, 293 bits/sec)		Firewall and Access Lists
Rx Noise Figure	3.5 dB		
Rx Linearity	-10 dBm		
Rx Dynamic Range	70 dB Analog, 100+ dB Digital	Interfaces	
Regulatory Compliance		Ethernet Backhaul	RJ-45 (10/100 BaseT)
Safety	UL / CSA / EN / IEC 62368-1	Cellular Backhaul	Dual SIM / Internal Antenna
Regulatory	FCC: 15.247, 15.109, 15.209	LoRa Antenna	SMA-RC
	ISED: RSS - 247, RSS - Gen	Power	12V / 1A Adapter or PoE
	CE: RED 2014/53/EU		



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.