

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
- Smart Greenhouses
- Facility Management
- Safety & Security
- Schools & Universities
- Retail



Key Product Differentiators

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

Key Features

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

* Enabled according to applicable regional standards

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Technical and Functional System Specifications

Mechanical Parameters

MTBF	830,000 hours
DC Power Consumption	2.3 W (Ethernet Backhaul)
	2.6 W (Cellular Backhaul)
Operational Temperature	0°C to +40°C
Operational Humidity	5% to 95% Condensing
Ingress Protection	IP30
Size	120 x 118 x 41.5 mm
Weight	350 g (<200 g without battery)

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

LoRa Radio Parameters

Channel Plans*	US915, EU868, AU915, AS923
Tx Power	14 dBm to 27 dBm
Rx Sensitivity	-141dBm (SF12, 293 bits/sec)
Rx Noise Figure	3.5 dB
Rx Linearity	-10 dBm
Rx Dynamic Range	70 dB Analog, 100+ dB Digital

*Supports all 800 & 900 LoRaWAN Channel Plans

Interfaces

Ethernet Backhaul	RJ-45 (10/100 BaseT)
Cellular Backhaul	Dual SIM / Internal Antenna
LoRa Antenna	SMA-RC
Power	12V / 1A Adapter or PoE

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



TEKTELIC Communications is a premier supplier of best-in-class LoRaWAN® IoT Gateways, Sensors, and custom applications. These elements combined provide a powerful end-to-end solution that can be easily, quickly, and cost effectively deployed to address the most demanding IoT challenges.

For more information please visit www.tektelic.com