

# **KONA Micro IoT Gateway**

# **Enterprise 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 3G/4G 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 Product Differentiators**

- Enable critical enterprise IoT applications with 'Always' On' connectivity. Battery backup and an integrated 3G/4G modem.
- Reduce set up costs with plug-n-play installation **S** using a custom provisioned factory image.
- Market Ma IoT application adoption and customer satisfaction.
- Simplify management with the KonaFT OAM tool. **>>**
- Operational status indicated with multi-function LED. **>>**
- Fully integrated with the broader eco-system of **>>** LoRa<sup>™</sup> network servers and sensors.

# **Key Features**

- NA 915, EU868, AUS923, JP920 ISM Bands **>>**
- Four Hour Battery Backup **>>**
- Time Duplex 8 Rx / 1 Tx >>
- Integrated Cellular 3G/4G Modem **>>**
- External LoRa Antenna **>>**
- **Operational Status LED >>**
- 27 dBM Tx Power >>
- Plug n Play Operation >>
- Factory Image for Mass Deployment >>
- In-Service Updates 33

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## **Technical and Functional System Specifications**

## **Mechanical Parameters**

Software and Management

Tools

Networking

MTBF	830,000 hours
DC Power Consumption	< 7 W
Operational Temperature	0°C to +40°C
Operational Humidity	5% to 95% Condensing
Ingress Protection	IP30
Size	115 x 115 x 40 mm
Weight	350 g (<200 g without battery)

Access Control List managment

3G/4G Parameter Configuration

Radio Configuration and Control

Active and Passive image management

Remote Software Upgrade

Factory image provisioning

Field Configuration Tool

Firewall and Access Lists

DHCPv4 client

TFTP server

System Health Monitor

### LoRa Radio Parameters

ISM Bands	NA915, EU868, AS923, JP920, CH779
Tx Power	14 dBm to 27 dBm
Rx Sensitivity	-139.5 dBm (SF12, 293 bits/sec)
Rx Noise Figure	3.5 dB
Rx Linearity	-10 dBm
Rx Dynamic Range	70 dB Analog, 100+ dB Digital

### Interfaces

Ethernet Backhaul	RJ-45 (10/100 BaseT)
Cellular Backhaul (3G/4G)	(internal antenna)
LoRa Antenna	SMA-RC
Power	12V / 1A Adapter

## **Regulatory Compliance**

Safety	IEC 60950-1 (CE)
Environmental	ETSI EN 300 019-2
Regulatory	ETSI EN 55022 Class B
	ETSI EN 55024
	ETSI EN 300 489-1/-3





#### **Cellular Carrier Certifications**

Verizon
AT&T
T-Mobile
Sprint
PTCRB

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