# 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
- 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 3G/4G 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 KonaFT OAM tool.

» Operational status indicated with multi-function LED.

» Fully integrated with the broader eco-system of LoRa™ 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

# KONA Micro IoT Gateway

## Enterprise LoRaWAN® Gateway for Mission Critical Deployments

### Technical and Functional System Specifications

#### Mechanical Parameters

| | |
|---|---|
| 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) |

#### 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 |

#### Software and Management

| | |
|---|---|
| Tools | Access Control List managment |
| | 3G/4G 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

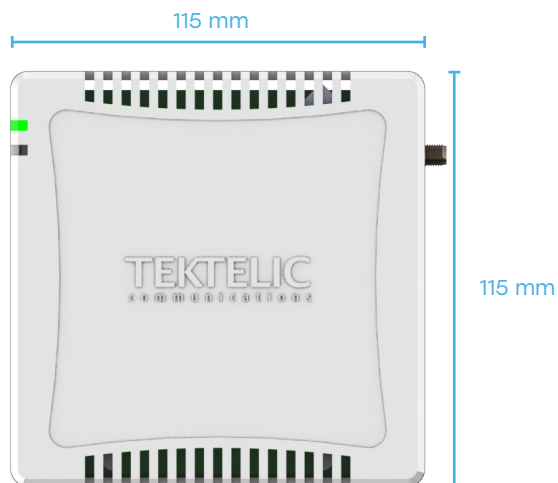| | |
|---|---|
| Ethernet Backhaul | RJ-45 (10/100 BaseT) |
| Cellular Backhaul (3G/4G) | (internal antenna) |
| LoRa Antenna | SMA-RC |
| Power | 12V / 1A Adapter |

#### 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 |

115 mm

40 mm

115 mm

TEKTELIC
communications

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