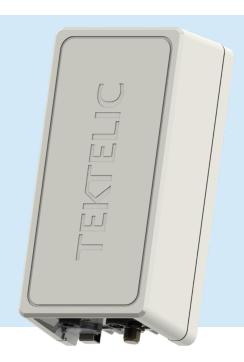


# **KONA Macro IoT Gateway**

### Scalable LoRaWAN<sup>®</sup> Gateway for Outdoor Deployments

The KONA Macro IoT Gateway is an ideal solution for operators and enterprises that require a very scalable low cost LoRaWAN<sup>®</sup> gateway that minimizes network TCO while improving coverage and capacity.

- Smart Cities
- Smart Agriculture
- Asset Tracking
- Environmental Monitoring
- Smart Metering
- Waste Management
- Outdoor Industrial Facilities
- Multi-Building Campuses



# **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.
- >> Excellent out of band rejection of Interference from other networks such as Cellular and Paging.
- Fully integrated with the broad eco-system of LoRa™ network servers and sensors.

## **Key Features**

- » NA915, EU868, AU915, AS923 ISM Bands
- >> Frequency Duplex 16 Rx / 2 Tx (NA)
- Time Duplex 16 Rx / 2 Tx (Int.)
- >> Integrated Bandpass Filter
- >> Integrated GPS and 3G/4G Antenna
- >> Precise Network Synchronization (GPS)
- 27 dBm Tx Power
- >>> Hardended Carrier Grade Enclosure
- Backhaul Connectivity (ETH / 3G / 4G)
- Geolocation (optional)
- >>> Versatile Mounting Options

# **KONA Macro IoT Gateway**

## Scalable LoRaWAN<sup>®</sup> Gateway for Outdoor Deployments

#### **Technical and Functional System Specifications**

#### **Mechanical Parameters**

| MTBF                    | 850,000 hours          |
|-------------------------|------------------------|
| DC Power Consumption    | < 20 W                 |
| Operational Temperature | -40°C to +60°C         |
| Operational Humidity    | 10% to 100% Condensing |
| Ingress Protection      | IP67                   |
| Size                    | 144 x 282 x 92 mm      |
| Weight                  | 2.6 kg                 |
| Volume                  | 3.7 L                  |

#### 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           |

#### LoRa Radio Parameters

| ISM Bands (FDD)  | NA902-928, CN470-510              |
|------------------|-----------------------------------|
| ISM Bands (TDD)  | EU868, AU915, AS923, JP920, CH779 |
| 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     |

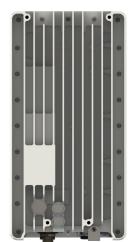
#### Interfaces

| Ethernet Backhaul         | RJ-45                   |  |
|---------------------------|-------------------------|--|
| GPS                       | (internal antenna)      |  |
| Cellular Backhaul (3G/4G) | (internal antenna)      |  |
| LoRa Antenna              | N-Type                  |  |
| Power                     | -48VDC or PoE (802.3at) |  |
| Regulatory Compliance     |                         |  |

# Safety UL60950-1(US/C) IEC 60950-1 (CE) Environmental ETSI EN 300 019-2 Regulatory FCC Part 15.247, 109, 209 ETSI EN 55022 Class B ETSI EN 55024 ETSI EN 300 489-1/-3 ETSI EN 300 489-1/-3









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