

# KONA Enterprise Gateway

## Highly Optimized Cost-Effective Gateway for Enterprise Deployments

The **KONA Enterprise LoRaWAN® Gateway** is designed for small and mid-size enterprises, universities, agricultural, forestry and remote operations. In order to facilitate rapid deployment one needs only to provide -48V DC / POE power. The Gateway is very compact and lightweight, comes with integrated Cat-6 3G/4G modem and Ethernet backhaul. The LoRaWAN, 3G/4G and GPS antennas are integrated within the enclosure. For remote applications and extra flexibility it also supports optional external LoRaWAN and 3G/4G Antennas. The ESD and Lightning protection are integrated across all its interfaces. The KONA Enterprise LoRaWAN Gateway meets IP-67 environmental specifications for most demanding outdoor installations. With MTBF of 450,000 hours or 50 years, is it virtually "always on" and the operators lowest TCO.



### Key Software Features

- » Access Control Management
- » Cellular Parameter Configuration
- » Radio Configuration and Control
- » Remote Software Upgrades
- » Active and Passive Image Management
- » DHCP v4 Client
- » TFTP Server
- » HTTP Server
- » Firewall and Access Lists

### Key Hardware Features

- » Time Duplex 8 Rx / 1 Tx
- » 3G/4G Cat-6 Modem
- » -48v/802.3af POE Power
- » IP67 Outdoor Design
- » Built-in LoRaWAN, 3G/4G & GPS Antennas
- » Optional external LoRaWAN and 3G/4G Antennas
- » Pole, Wall, Tower, Building DIN Rail Mounting Options

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### Technical and Functional System Specifications

#### Mechanical Parameters

|                         |                           |
|-------------------------|---------------------------|
| MTBF                    | 450,000 hours             |
| DC Power Consumption    | < 7 W                     |
| Operational Temperature | -40°C to +80°C            |
| Operational Humidity    | 10% to 100% Condensing    |
| Ingress Protection      | IP67                      |
| Size                    | 145.81 x 178.78 x 79.5 mm |
| Weight                  | 1.2 kg                    |

#### LoRa Radio Parameters

|                  |                                 |
|------------------|---------------------------------|
| ISM Bands        | All Global Bands                |
| Tx Power         | 14 dBm to 27 dBm                |
| Rx Sensitivity   | -139.5 dBm (SF12, 293 bits/sec) |
| Rx Noise Figure  | 2.5 dB                          |
| Rx Linearity     | -5 dBm                          |
| Rx Dynamic Range | 70 dB Analog, 100+ dB Digital   |

#### Interfaces

|                   |                                 |
|-------------------|---------------------------------|
| Ethernet Backhaul | RJ-45 (10/100 BaseT)            |
| 3G/4G Backhaul    | Internal with optional External |
| LoRa Antenna      | N-Type                          |
| Power             | 803.3af POE or 48VDC            |

#### Regulatory Compliance

|               |                                     |
|---------------|-------------------------------------|
| Safety        | IEC 60950-1 (CE), UL 60950-1 (US/C) |
| Environmental | ETSI EN 300 019-2                   |
| Regulatory    | ETSI EN 55022 Class B               |
|               | ETSI EN 55024                       |
|               | 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](http://www.tektelic.com)