

KONA Enterprise Gateway

Highly Optimized Cost-Effective Gateway for Enterprise Deployments

The KONA Enterprise LoRaWAN® 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.

- Outdoor Network Coverage
- In-building Networks
- Warehouses
- Commercial Farming
- University Campuses
- Multi-building Complex
- Parkades
- Medium Sized Private Developments



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
- » IEEE 802.3af PoE or Passive PoE at 37 to 57 VDC
- » 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

KONA Enterprise Gateway

Highly Optimized Cost-Effective Gateway for Enterprise Deployments

Technical and Functional System Specifications

Mechanical Parameters

| | |
|-------------------------|---------------------------|
| MTBF | 450,000 hours |
| DC Power Consumption | < 7 W |
| Operational Temperature | -40°C to +60°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) |
| Cellular Backhaul (3G/4G) | Internal with optional External |
| LoRa Antenna | N-Type |
| Power | 802.3af PoE or Passive PoE at 37 to 57 VDC |

Regulatory Compliance

| | |
|---------------|-----------------------|
| Safety | IEC 62368-1 (CE) |
| 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