

# **KONA Enterprise IoT Gateway**

# **Highly Optimized Cost-Effective Gateway for Enterprise Deployments**

The **KONA** Enterprise IoT 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.

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



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## **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**

- >> US915, EU868, AU915, AS923 ISM Bands
- >> Time Duplex 8 Rx / 1 Tx
- >> Integrated Cellular 3G / 4G Modem
- >>> Built-in LoRaWAN, 3G/4G & GPS Antennas
- >> Optional external LoRaWAN and 3G/4G Antennas
- IP67 Design
- >> IEEE 802.3af PoE or Passive PoE at 37 to 57 VDC
- >> 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    | 4.5 W (Typical)         |
| Operational Temperature | -40°C to +60°C          |
| Operational Humidity    | 10% to 100% Condensing  |
| Ingress Protection      | IP67                    |
| Size                    | 145.8 x 178.8 x 79.5 mm |
| Weight                  | 1.2 kg                  |
| Volume                  | 2.5 L                   |

### **LoRa Radio Parameters**

| ISM Bands        | US915, EU868, AU915, AS923,<br>MA869-870 |
|------------------|--|
| 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     | UL / CSA / EN / IEC 62368-1 |
|------------|-----------------------------|
| Regulatory | FCC: 15.247, 15.109, 15.209 |
|            | ISED: RSS - 247, RSS - Gen  |
|            | CE: RED 2014/53/EU          |





