

# 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 Cellular modem and Ethernet backhaul. The LoRaWAN, Cellular and GPS antennas are integrated within the enclosure. For remote applications and extra flexibility it also supports optional external LoRaWAN and Cellular 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

- » US915, EU868, AU915, AS923 Channel Plans
- » Time Duplex 8 Rx / 1 Tx
- » Integrated Cellular Modem
- » Built-in LoRaWAN, Cellular & GPS Antennas
- » Optional external LoRaWAN and Cellular 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	900,000 hours
DC Power Consumption	2.5 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 L

#### LoRa Radio Parameters

Channel Plans	US915, EU868, AU915, AS923
Tx Power	14 dBm to 27 dBm
Rx Sensitivity	-141 dBm (SF12, 293 bits/sec)
Rx Noise Figure	2.5 dB
Rx Linearity	-5 dBm
Rx Dynamic Range	70 dB Analog, 100+ dB Digital

\*Supports all 800 & 900 LoRaWAN Channel Bands

#### Interfaces

Ethernet Backhaul	RJ-45 (10/100 BaseT)
Cellular Backhaul	Internal with optional External
LoRa Antenna	N-Type
Power	802.3af PoE or Passive PoE at 37 to 57 VDC

#### Regulatory Compliance

Safety	EN / IEC 62368-1
Regulatory	FCC: 15.247, 15.109, 15.209
	ISED: RSS - 247, RSS - Gen
	CE: RED 2014/53/EU

