

KONA Micro Lite IoT Gateway

Miniature LoRaWAN® Gateway for Home and Small Office

The adoption of IoT solutions in the home and office is driving the need for indoor access to wide area low power networks. While LoRaWAN[®] macro networks are being rolled out today, access is not ubiquitous.

With TEKTELIC'S KONA Micro Lite Gateway users experience premier IoT connectivity with improved coverage, consistent service and reliability, regardless of their proximity to the macro LoRaWAN[®] network. This plug-and-play Micro Lite gateway connects directly into an existing broadband service, self-configures, and extends LoRaWAN[®] coverage inside the home or small office.



Key Product Differentiators

Reduce operation and deployment costs by utilizing KONA Micro Lite IoT Gateway with existing IP backhaul.

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Improve coverage and services resulting in increased adoption and customer satisfaction.

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Maximize benefit to customer by enabling a wide range of additional IoT services such as home and asset monitoring, security, health and fitness.

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Robust gateway design manufactured for quality.

Self-optimizing plug-n-play installation.

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Integrated with eco-system of network servers and devices.

Key Features

- Most Global ISM Bands
- ✗ Time Duplex 8 Rx / 1 Tx
- >> Integrated Filter
- >> Integrated WiFi (Optional)
- >> Integrated or External LoRa Antenna
- 27 dBm Tx Power
- >>> Plug-n-Play Operation
- >> Factory Image For Mass Deployments
- In-Service Updates

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Technical and Functional System Specifications

Interfaces

Ethernet	Modular RJ45
	10/100 BaseT with autonegotiation
WiFi (optional)	2.4GHz (802.11 b/g)
	WPA2 Security
	Integrated Antenna
Power	Off-the-shelf 5V/2A wall adapter
	5.5 mm barrel connector

Hardware

CPU	NXP Kinetis K64MCU-120MHz Cortex M4	
	Integrated 1Mb Flash and 256Kb SRAM	
	Pre-programmed MCU for higher volume	
Memory	SPI NOR Flash - up to 2 MB	
Packaging	Polycarbonate Enclosure	
Dimensions	96 x 96 x 25 mm	
Cooling	Convection Cooled	
LED-1	Power Indicator	
LED-2	LoRa Link Indicator	
LED-3	WiFi Link / Traffic Indicator	

Software

OS FreeRTOS Configuration and Calibration NVM storage management Gateway Image Management Factory image provisioning Active and Passive image management Firmware update over ETH/WiFi Image corruption recovery built in Networking DHCPv4 client
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Management Active and Passive image management Firmware update over ETH/WiFi Image corruption recovery built in
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Image corruption recovery built in
Networking DHCPv4 client
TFTP server
HTTP server
Firewall and Access Lists

LoRa Parameters

902 - 928 MHz
863 - 870 MHz
915 - 928 MHz
920 - 928 MHz
Adjustable to 27 dBm
-139.5 dBm (SF12, 293 bits/sec)
3.0 dB
-10 dBm
60 dB

Regulatory Compliance

Safety	UL 60950-1
EMC	FCC Part 15: 247, 109, 209, 107
	FCC Colocation (WiFi version only)
	ETSI 300 489-1, 489-3, 489-17(EU only)
	ETSI 300 220-1, 220-2 (EU only)
	ETSI 300.328 (WiFi version only)
Environmental	Operating Temperature: 0°C to +40°C
	Storage Temperature: -20°C to +70°C
	Humidity: 5% to 95% Non-Condensing

Management

Tools	Access Control List managment
	WiFi Parameter Configuration
	Firmware update and reset

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