



WLRI-G12A/WLRI-G12AH



Mini Smart Wireless IoT Gateway with External Antenna

This intelligent smart gateway is the core of the entire wireless smart IoT system, a small form factor design can be used in a wide variety of applications. External antenna enhances the range, and HTTPS secure connection enables this product to be used in any network that requires high-security IoT and Android APP are now available to add devices easily to the gateway and create linkage for automation.

Features:

- Small form factor
- Smart functions and control
- One RJ-45 data interface
- Encrypt-RF™ Security
- LoRaWAN™ Technology
- Connects up to 50 wireless devices
- Optional HTTPS connectivity



Applications:

- Commercial/Residential monitoring
- Franchise stores and multi-location installation

WLRI-G12A-Mini Smart Gateway with Antenna

WLRI-G12AH-Mini Smart Gateway with Antenna & HTTPS

Schematic Diagram:



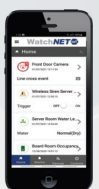
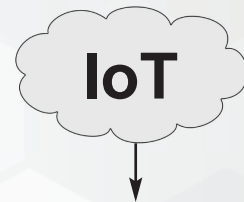
Up to 50 wireless Plug & Play devices



Mini Intelligent Gateway

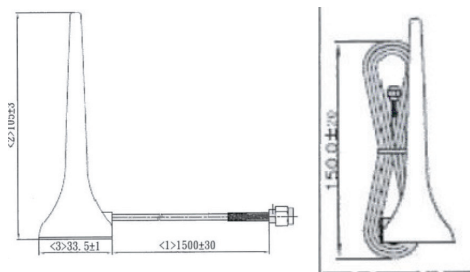


Optional Accessory:
WLRI-POE5
PoE SPLITTER Micro USB 5V



Technical Specifications

Hardware Description	
Main chip	RTL8196EU (Realtek)
DDR1	32MB
Flash	16MB
Ethernet Port	One RJ45 port (WAN)
USB Interface	USB 2.0
LoRa	R100H
LED Indicator	Cloud
Reset Button	Tact Switch
Power Adapter	Input: 100 ~ 240V AC / Output: 5V/1A
Indicator Description	
Indicator	Status Description
Cloud	On Connected
	Off Not connected
	Flash Data transmission
Button Description	
Button	Description
Reset button	Press to restart the device Press and hold for 5 seconds, and then release to reset and restart
Electric	
Working Power	Input: 100~240V AC / Output: 5V/1A DC
Power Consumption	5V/0.12A/0.6W (typical value)
Frequency	
Frequency Bandwidth	410-525MHz / 862-1020MHz (User can select the desired frequency band)
Communication Channel	User selectable
Antenna Type	External antenna
TX Power	20dBm±1dBm (Maximum, can be set according to requirements)
Communication Distance	Up to 500m/0.310miles, the actual transmission distance depends on the environment
Rx Sensitivity	-136dBm (LoRa, Spreading Factor=12, Bit Rate=293bps) -121dBm (FSK, Frequency deviation=5kHz, Bit Rate=1.2kbps)
Data Transfer Rate	1.2 ~ 300kbps (can be set according to requirements)
Modulation	LoRa/FSK
Physical	
Dimensions	76.5mm x 37.0mm x 22.0mm / 3.01" x 1.46" x 0.87"
Shell Material	PC510
Operating Temperature	-10°C ~ 50°C / 14F ~ 122F
Storage Temperature	-20°C ~ 60°C / -4F ~ 140F
Protection class	IP65
Working Humidity	0~ 95%RH
Storage Humidity	0~ 95%RH
Weight	100gr / 0.22lb



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Rev. Dec., 2021
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