



WLRI-G12



Mini Smart Gateway

This small form factor smart gateway provides cloud connection and local control of devices connected to it. Economical and easy to installation and configuration makes it ideal for small projects of environmental monitoring. The built-in powerful antenna is capable of receiving long-range signals.

Features:

- Small form factor
- Smart functions and control
- Built-in powerful antenna
- Encrypt-RF™ Security
- LoRaWAN™ Class A compatible
- Connects up to 50 wireless devices

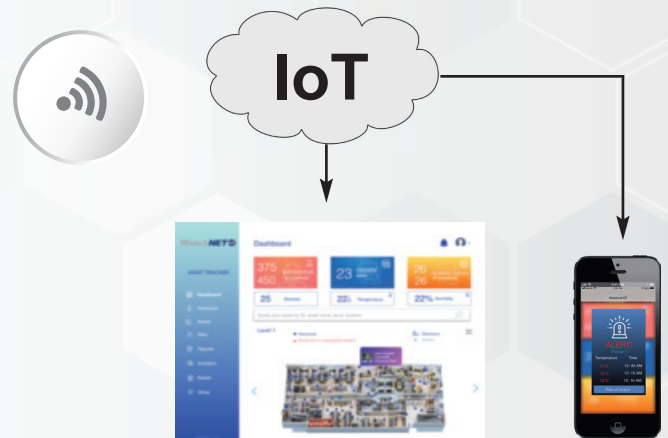
Applications:

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

Schematic Diagram:



Mini Intelligent Gateway



Up to 50 wireless
Plug & Play devices

Technical Specifications

Hardware Description		
Main processor	RTL8196EU (Realtek)	
DDR1	32MB	
Flash	16MB	
Ethernet Port	One RJ45 port (WAN)	
LoRa	Proprietary communications	
LED Indicator	Cloud / LoRa	
Reset Button	Tact Switch	
Power Adapter	Input: 100 ~ 240V AC / Output: 5V/1A (USB power)	
Indicator Description		
Indicator	Status	Description
WAN	On	Connection status
	Off	Not connected
	Flash	Data transmission
LoRa	On	Network built success
	Off	Unbuilt network
	Flash	Allow network joining
Button Description		
Button	Description	
Reset button	Press and hold reset button for five seconds to reset and restart	
Electric		
Working Power	Input: 100~240V AC / Output: 5V/1A DC	
Power Consumption	5V/0.12A/0.6W (typical)	
Frequency		
Frequency Bandwidth	410-525MHz / 862-1020MHz (User can select the desired frequency band)	
Communication Channel	User selectable	
Antenna Type	Built-in antenna	
TX Power	20dBm±1dBm (Maximum, can be set according to requirements)*	
Communication Distance	Up to 5 km (3.11 miles), 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	

* Actual signal range may vary depending on the environment.

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CANADA:

351 Ferrier Street, Unit 5
Markham, ON L3R 5Z2
Toll Free: 1-866-843-6865
Tel: 416-410-6865

USA:

171 Cooper Ave. Suite 110
Tonawanda, NY 14150 USA
Toll Free: 1-866-843-6865
Local: 1-716-877-7277

UAE:

PO Box No 126312
Office Suite 703, Oxford Towers
Business Bay, Dubai, UAE
Tel: + 971 4 276711

www.watchnetiot.com
info@watchnetiot.com