Smart Gateway

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Ultra compact multifunctional smart gateway
RG4100+
V1.0

Zhejiang Raying IoT Technology Co., Ltd

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Version Update

V1.0.0   2017/3/7   Preliminary

Content

1. Overview

RG4100+ is an ultra compact multifunctional smart Home Automation gateway of the latest research and development by Raying IoT Technology Co., Ltd. With a high degree of integration of wireless communication design capabilities, the device in the ultra small volume integrated ZigBee, Ethernet and Wi-Fi communications. The new plug and play design does not require users to understand any configuration information, just use the network cable to connect the existing router can work properly, can be applied to any inexperienced users. The gateway can also completely replace the function of the home wireless router, users can use the device at the same time the network browsing and smart home control and other functions.

2. RG4100+ Components

RG4100+ is mainly composed of WIFI module, ZigBee module and mainboard,

it has three kinds of access: WIFI access, LAN access and wide area network access.

3. Application Field

■ Remote Data Acquisition

■ Industrial Automation

■ Wireless Meter Reading System

■ Smart Building System

■ Smart Transportation System

■ Smart Street Light Control

■ Coal Mine Safety Monitoring

■ Telemedicine Monitoring

4. Product Features

1. Super small volume, saving space

   Only 1/4 volume of the traditional wireless router, do not occupy the limited space in the family, paint appearance more high-end quality products

2. Plug and play, no configuration①

   Different from other similar products on the market require complex configuration, the device only needs to access the Internet line to work, save the trouble of learning

3. Multi network integration, powerful

   Integration of three wireless communication as a whole, not only is a powerful smart home controller, but also supports the router as a connection to Internet, enjoy 150M high-speed Internet fun

4. Wireless networking, stable and reliable

   Industrial wireless technology to ensure that the smart home system 365 days and 24 hours all-weather reliable operation, real-time, small interference

5. Super security, privacy protection

   Equipment in the Wi-Fi and ZigBee are used in the industry high-level encryption mode of transmission of information to ensure network communication security, to prevent malicious intrusion

6. International standard, accepted worldwide②

   In line with the global ZigBee HA protocol to support the use of the interaction with other manufacturers, greatly expanding the user's optional

① Plug and play function requires the main router to open the DHCP function

② Optional ZigBee standard HA protocol, the default use of the RexHome protocol

5. Product Specifications

Physical Characteristics	
Dimension	Length*Width*Height = 89.6*89.6*22.0mm
Weight	93g(N.W.)
Status Indicator	5*LED
Operation Button	1 button
Power Supply	MicroUSB DC5V
Working Current	< 0.37A
Adapter AC Input	100V-240V-50/60Hz 0.25A
Adapter output	5V 1.0A
RAM	64MB
Flash	16MB
Processor	MT7688
Operation Temperature	-10-55℃
Operation Humidity	10%-90%RH (None-condensing)
Storage Temperature	-20-60℃
Storage Humidity	5%-90%RH(None-condensing)
Hardware Interface	2 10/100M RJ45 Ethernet interface (WAN+LAN)
Wireless Technology	Wi-Fi 802.11b/g/n
	802.15.4/ZigBee

RF Features		
	802.15.4/ZigBee	Wi-Fi
Radio Frequency	2.4Ghz	2.4Ghz
Network Standard	802.15.4/ZigBee PRO	802.11b/g/n
Channel Number	16	11
Transmission Speed	250kbps	150Mbps@11n 54Mbps@11g 11Mbps@11b
Network Features		
Wireless Encryption	64/128/152 bit WEP encryption WPA-PSK/WPA2-PSK, WPA/WPA2 security mechanism	
Network Management	Remote Web management Configuration files lead-in/lead-out Web firmware upgrading (Wi-Fi) Serial port firmware upgrading (ZigBee)	
Max. connection quantity	UDP/TCP>20	

7. Packing List

ZigBee/ Ethernet Gateway * 1
DC5V power * 1
Ethernet cable * 1
Product description * 1

8.Contact Us

Zhejiang Raying IoT Technology Co., Ltd.

Add :10F,North of Building No.10,Wellong, No.88 Jiangling Road,Hangzhou,310051 China

Tel：0571-85395623

Fax：0571-87987620

Email: intl@rexense.com;

Website：www.rexense.com

Caution:

Note : Cet appareil est conforme à la Partie 15 des règlements de la FCC et aux normes RSS de l'Industrie du Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer des interférences nuisibles, et (2) cet appareil doit accepter toute interférence reçue, y compris les interférences qui peuvent provoquer un fonctionnement indésirable.

Le fabricant n'est pas responsable des toutes interférences radio ou télévision causées par des modifications non autorisées apportées à cet appareil. De telles modifications peuvent empêcher l'utilisateur d'utiliser l'appareil.

Le présent émetteur radio (identifier le dispositif par son numéro de certification ou son numéro de modèle s'il fait partie du matériel de catégorie II) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.
Antenna Type: internal antenna
Max. Antenna Gain: -1.0dBi

This device complies with Part 15 of the FCC rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or change to this equipment. Such modifications or change could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement.

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.