PUDU PMC1 LoRa Central Control Device User Manual

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Overview

BLGE302-H8 LoRa gateway is a high-performance industrial-level LoRa to wired network data gateway based on RF front-end SX1250 chip of baseband transceiver chip and Lexin ESP32 control chip. The product adopts top suction installation, built-in FPC antenna, reserved network port and 5V power supply port, easy for users to install indoors. The user can easily base on the LoRa protocol and realize the communication and networking management of the LoRa node by the server through the gateway.

Key characteristics

operating frequency 903-927MHz

- Maximum ouut+20dBm
- Transmission power

Suitable for scene

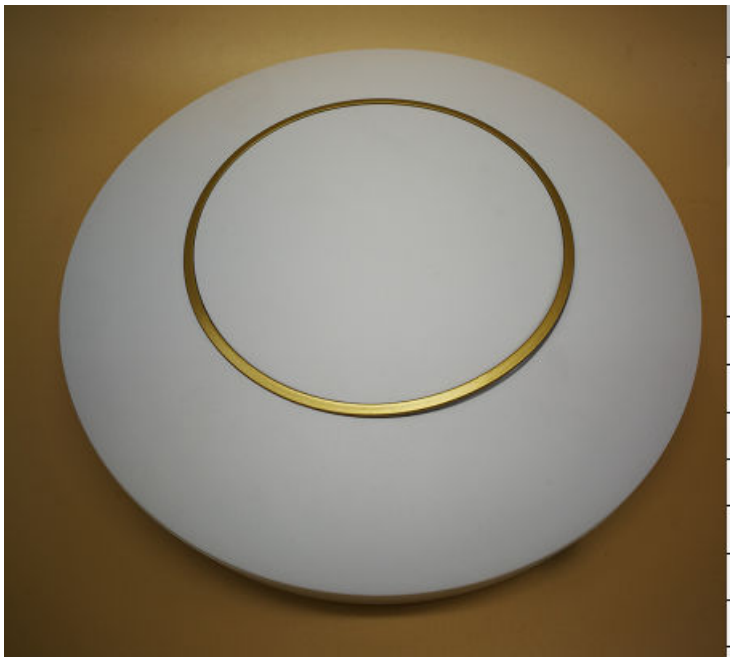
- Lora/LoRaWAN Gateway
- Internet of things
- Meter Concentrator

- ndustrial Control Concentrator
- Security Alert System
- Receiver Performance 8- channel LoRa packet detectors
  SF5-SF12 LoRa demodulator 125kHz LoRademodulator
- launcher performance 1 launch channel
- CPU and Memory Dual Core 32-bit LX6 Microprocessor 448kB ROM 520kB internal SRAM 8MB external Pseudo SRAM
- communication interface 1 M/100Mbit 10 cable ports Support POE power supply 5 V DC power supply interface
- antenna External LoRa sucker antenna
- Communication distance

Ordering Information

type	Temperature range		
BLGE302-H8	-40°C ~ +85°C		

Product specifications

Functional specifications	
Appearance Adpipmenrsainocnes	

Main core	Φ 21CM *H(5CM)		
mMuondie aotf	ESP32+SX1302+SX1250		
com c ion	Server side		10M/100Mbit Wired network
	Nodes side		LoRa data
Storage	Internal	RAM	ESP32 Internal 520 KB External 8MB
		ROM	448 KB
		Flash	8M
Trraencsempitsisoinon p erformance	Transmission power		Maximum output+20dBm
	Receiving sensitivity		-141dBm(SF12,BW 125KHz) -126dBm(SF7,BW 125KHz)
Working voltage	Communication distanc e		Abount 5000m(Test conditions Sunny, open, maximum power, antenna gain 5 dBi altitude greater than 2 m 2.4Kbps air rate)
Power supply	DC		3.3V
	5V,2A DC input or POE 48V Optional Follow-up support		
Basic attributes	Use of temperature		-40℃ 85℃
	Transport and storage t emperature		-40℃ 125℃
	Weight		0.25kg

	Electromagnetic compatibility	Group B 1
	Communications agree ment	Bob-W-ap
Software functions	Update	OTA
	Interface type	RJ45(10M/100Mbit)

Sales and Services Network

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Web site

Revision of history

version	date	Revised note	Maintenance personnel
V1.0	2019/06/10	Create documentation	Andy.zhu

Note:

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. NOTE: This equipment has been tested and found to comply with the limits for a Class Bdigital 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.

FCC ID: 2AXDW-PMC1

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna

IC Caution:
This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Manufacturer's Name: SHENZHEN PUDU TECHNOLOGY CO., LTD. Address: Room 501, Building A, Block 1, Phase 1, Shenzhen International Inno Valley, Dashi 1st Road, Nanshan District, Shenzhen, China 518057 Product name: LoRa Central Control device Model number: PMC1, PMC1-H4, PMC1-H8, PMC1-H9, PMC1-H9K Operating Temperature: -40° C to 85° C This device in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. All essential radio test suites have been carried out.

1. The adapter shall be installed near the equipment and shall be easily accessible.
2. The plug is considered as a disconnect device of the adapter.
3. The device complies with RF Exposure.

Documents / Resources

	PUDU PMC1 LoRa Central Control Device [pdf] User Manual PMC1, 2AXDW-PMC1, 2AXDWPMC1, PMC1, LoRa Central Control Device

References

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