CG52LD

Product Datasheet



Version V1.01

Release Date 2023-12-12

Copyright© 2023 Aurtron

About this document

This document focuses on LoRa Industrial Gateway CG52LD of the specification parameters.

Product selection

Model	Region	Frequency band	4G Features
CG52LD REV.B(CN490LC22S-1B1E)	CN490	Chinese Mainland	nothing
CG52LD REV.B(CN490LC22S-1B1E1K)	CN490	Chinese Mainland	Yes
CG52LD REV.B(US915HD22S-1B1E)	US915	Americas region	nothing
CG52LD REV.B(US915HD22S-1B1E1K)	US915	Americas region	Yes

Copyright Notice

© 2023 Guangzhou Aurtron Intelligent Technology Co., Ltd. all rights reserved. No part of this document may be copied, transmitted, transcribed, stored or translated into any language in any form or by any means without the written permission of Guangzhou Aurtron Intelligent Technology Co., Ltd..

Trademark Statement

Aurtron Intelligence and Guangzhou Aurtron are registereds trademark of Guangzhou Aurtron Intelligence Technology Co., Ltd. The other products or brands mentioned in this document are trademarks or registrations of their respective owners, and this is hereby declared.

Disclaimer

The information in this article was accurate at the time of publication but is subject to change without notice. Aurtron assumes no responsibility for errors and omissions and is not responsible for any consequences arising from the use of the information herein. In addition, Aurtron is not responsible for the normal use of functions or parameters that are not described. Aurtron makes no warranty, representation or guarantee as to the suitability of its products for any particular purpose, also disclaims any liability arising from the application or use of its products or circuits, and in particular disclaims any and all consequences including,without limitation, consequential or incidental damages.The product is not designed, planned or authorized for use intended to support or sustain life, or in any other application where a failure of the product may result in personal injury or death. If the Buyer purchases or uses Aurtron's products for any non-designed use or unauthorized application, the Buyer shall guarantee that Aurtron will not be subject to any claims and damages.

Contact Information

Email: sales.aurtron@gmail.com

Fax: 020-38342427

Web Site:www.aurtron.com

Address: 10F, Building A, International Hatcher, No. 3, Huanpu District, Guangzhou, China

Sales Network

Office	Contacts	Telephone
North China Office	Manager Zhao	138-4039-3588
East China Office	Manager Fan	158-0051-1496
Central China Office	Manager Ye	186-2799-2743

South China Office	Manager Wu	189-2766-5586
Southwest Office	Manager May	137-9807-9455

1. Version information

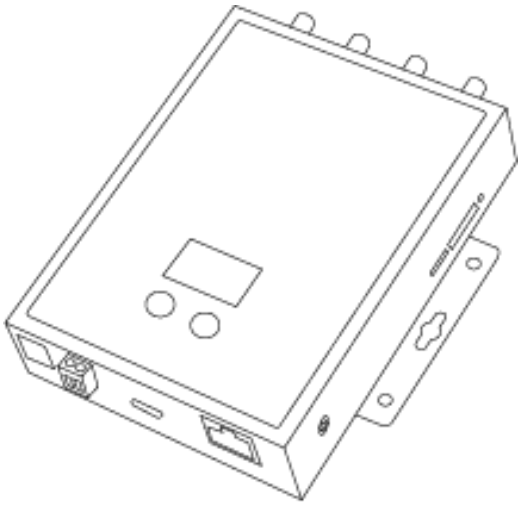
Date	Version	Updated content
2023.12.07	V1.00	Create this document
2023.12.12	V1.01	Additional Product Selection

2. Packing list

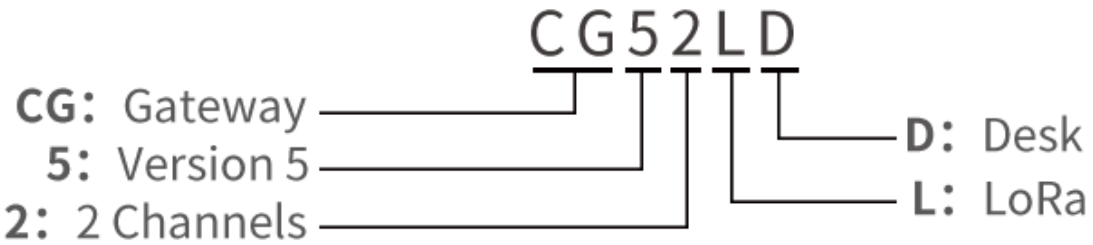
Serial number	Name	Number
1	LoRa Industrial Gateway	1
2	LoRa antenna	2
3	Full Netcom version includes 4G antenna	1
4	2.4G antenna	1
5	Expansion bolt	2
6	Certificate	1

3. Product Overview

The G52LD REV.B adopts the WiFi + EtherNET dual-mode processor platform, and the S92E dual-channel LoRa gateway module with Mini PCI-e interface can support global frequency bands and. Support BLE function on the gateway configuration has great convenience, the use of mobile phone connection login, can be complex background parameters configuration. OLED liquid crystal interface small volume, easy to use, improve the on-site installation, diagnosis efficiency.



4. Model Dxplaination



5. Application scenario



6. Basic functions

- LoRaWAN 1.0.2 protocol stack, support cellular communication
- Full duplex communication, 1 physical Tx, 1 physical Rx
- Support for LoRaPMAC private protocol
- Support LoRaWAN + protocol
- Support field TF card firmware upgrade
- Support for remote firmware upgrade
- Support for remote channel planning

- Full Netcom version supports 1 Cat.1 mobile network communication channel
- Support 1-way Ethernet network communication channel
- Support BLE connection for gateway parameter configuration and view
- Support OLED LCD view gateway status
- Wide voltage input range, support direct current power supply, PoE power supply (optional)

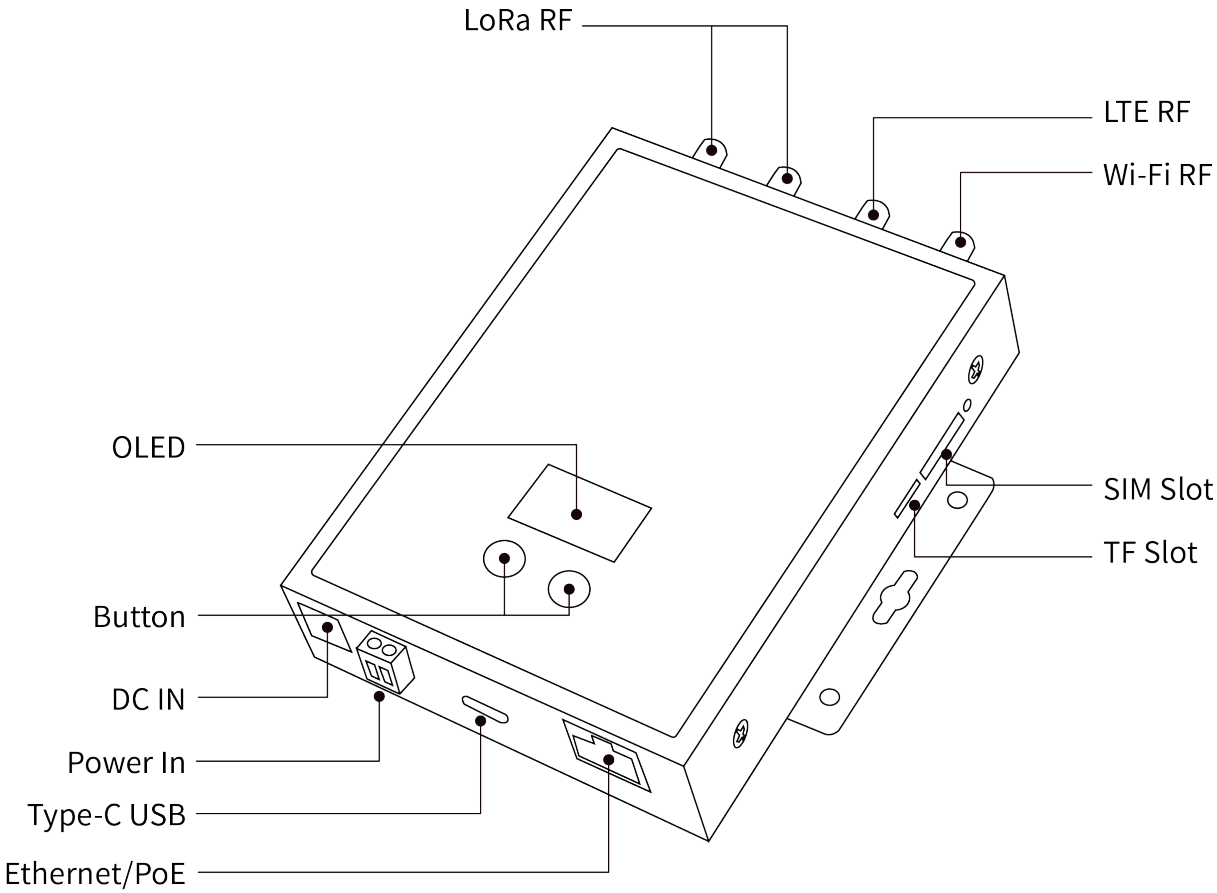
7. Wireless parameters

Category	Project	least value	Typical value	Maximum value
Spread spectrum factor	LoRa	SF5	--	SF12
Support frequency band	433/470/868/915/923	--	--	--
Transmit power	--	--	--	+22dBm/+30dBm
+30dBm				
Receiving sensitivity	Spread Spectrum Factor 10 Bandwidth 125 KHz	--	-133dBm	--
signal path	1 channel up 1 channel down	--	--	--

8. Electrical characteristics

Ccategory	Project	least value	Typical value	Maximum value
Operating voltage	Power Supply Interface Supply	9Vdc	12Vdc	36Vdc
	PoE power supply	38Vdc	48Vdc	57Vdc
Static power consumption	Average power consumption during normal operation	--	1W	--

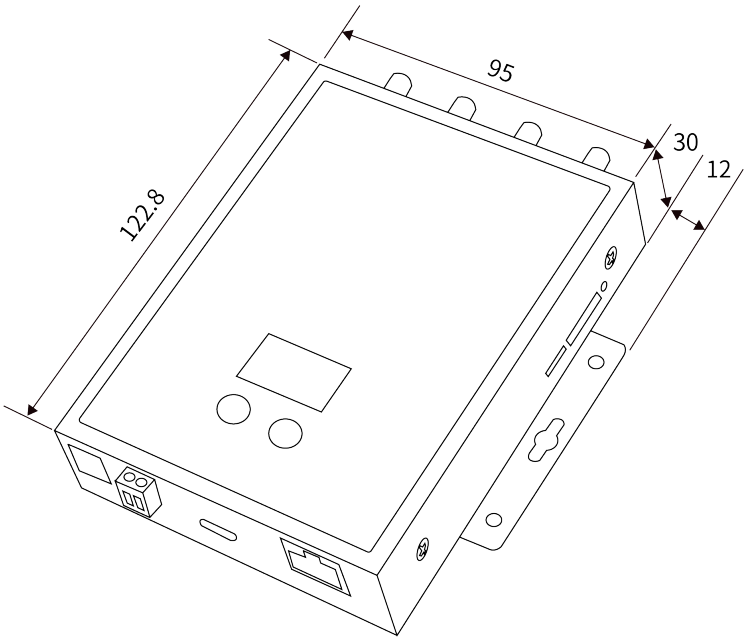
9. Hardware interface



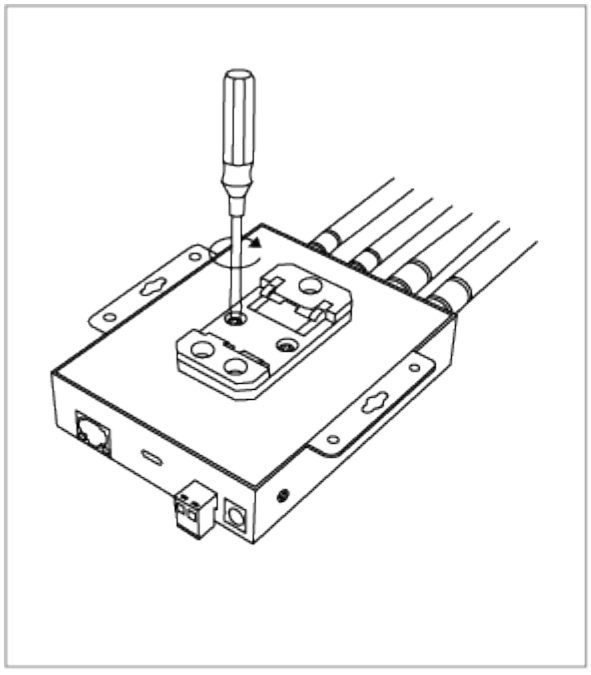
Name	Introductions
LoRa Antenna Interface	SMA external screw inner hole
LTE Antenna Interface	SMA external screw inner hole
Wi-Fi antenna interface	SMA external screw inner hole
SIM card slot	All Netcom SIM Card
TF Card Slot	For firmware upgrade
DC Power Input	9 ~ 36 Vdc输入，DC5. 5/2. 5
Power input	9 ~ 36 Vdc input
Type-C USB	Manufacturer Reservation
Ethernet / POE	10 / 100M to Taipan, support standard PoE power supply

10. Mechanical dimensions

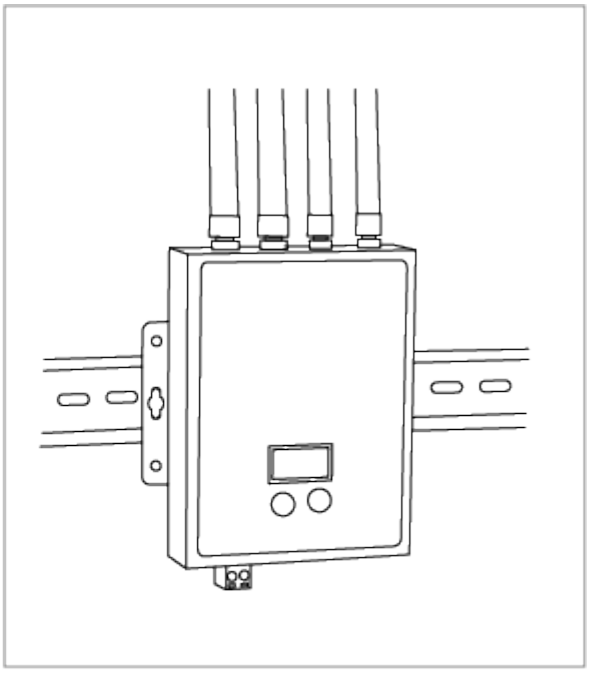
Unit: mm, tolerance: ± 0.2 mm.



11.Guide Rail Mounting Instructions

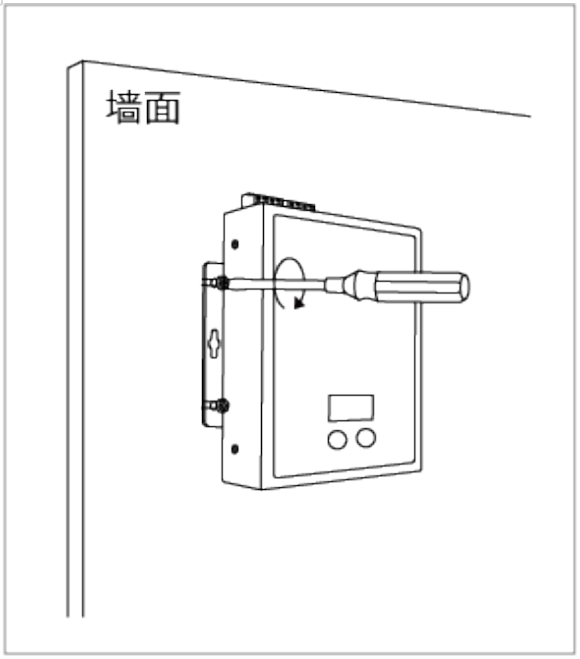


❶ Guide rail board installed on the back of the gateway (Optional accessories)

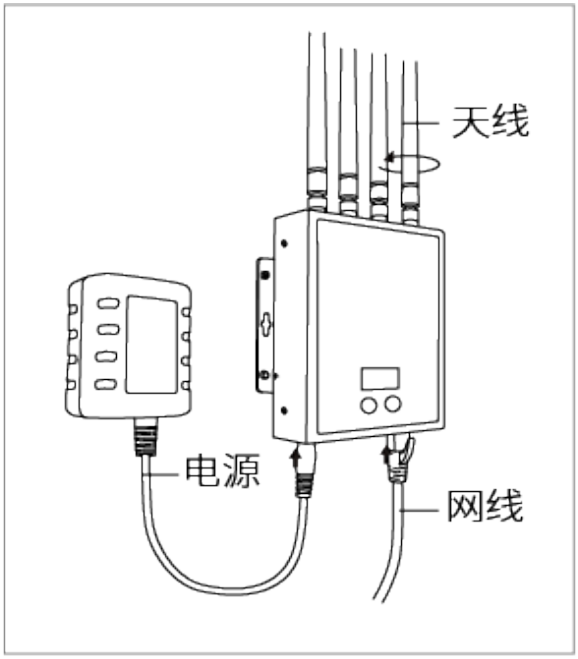


❷ Install the gateway onto the guide rail

12.Wall Installation Instructions



❶ Fix the gateway to the wall with expansion bolts



❷ Connect the power supply, Ethernet cable and antenna