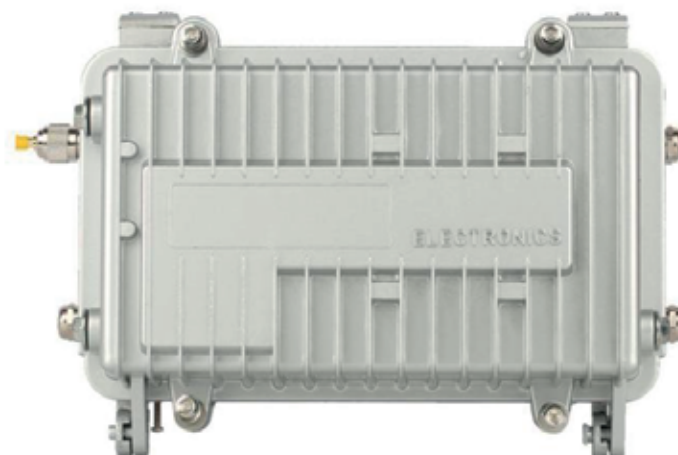




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ESTACIONAMIENTOS INTELIGENTES

LoRaWAN Intelligent Gateway For Outdoor



WBP-K02G

LoRaWAN-WAN Gateway Manual

Product example diagram, actual appearance and model are related, subject to specific physical object

1. Product Introduction

Product Overview:PGS parking guidance system outdoor parking lot LoRaWAN-WAN gateway 470MHz 868MHz CG58LD REV. B adopts a WiFi+Ethernet NET dual-mode processor platform, and also uses an S98E eight channel LoRaWAN gateway module with Mini PCI-e interface, which can support global frequency bands. Supporting BLE function provides great convenience for gateway configuration, allowing for complex parameter configuration in the background through mobile phone connection. OLED LCD interface is compact in size, easy to use, and improves on-site installation and diagnostic efficiency.

2. Product features

- Support LoRaWANWAN protocol and cellular communication.
- Half-duplex communication, 1 physical Tx, 8 physical Rx, MultiSF technology, 48 logical concurrent receiving channels.
- Multiple frequency bands optional, including 433/470/868/915/923.
- Support three working modes: Class A/B/C.
- Support Ethernet/4G data return (full-network compatibility).
- Support on-site TF card firmware upgrade and parameter configuration.
- Support remote firmware upgrade and parameter configuration.
- Support BLE connection for gateway parameter configuration and viewing.
- Support OLED liquid crystal for viewing gateway status.
- Wide voltage input range, support DC power supply and PoE power supply.

3. Technical Parameter

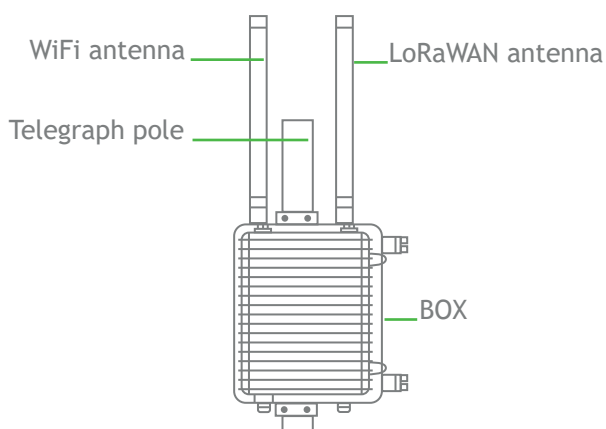
Category	Item	Minimum	Typical	Maximum
Spreading Factor	LoRaWAN	SF7	-	SF12
Supported Frequency Bands	433/470/868/915/923	-	-	-
Transmission Power	-	-	-	+30dBm
Receiving Sensitivity	Spreading factor 10 125KHz	-	135dBm	-
Channels	8 channels upstream, 1 channel downstream	-	-	-

Electrical Characteristics

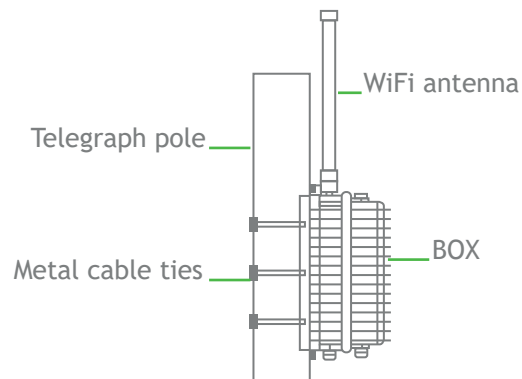
Category	Item	Minimum	Typical	Maximum
Operating Voltage	Power supply via power interface	9Vdc	12Vdc	36Vdc
	PoE power supply	38Vdc	48Vdc	57Vdc
Static Power	Average power consumption during	-	1W	-
Consumption	Normal operation	-	1W	-

	Multi Channels setting(Frequency/Mhz)								Center Frequency/Mhz	
band	Channel 0	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Radio 0	Radio 1
EU868	867.1	867.3	867.5	867.7	867.9	868.1	868.3	868.5	867.5	868.5
AU915	915.2	915.4	915.6	915.8	916	916.2	916.4	916.6	915.5	916.3
US915	902.3	902.5	902.7	902.9	903.1	903.3	903.5	903.7	902.6	903.4
AS923	923.2	923.4	923.6	923.8	924	924.2	924.4	924.6	923.5	924.3
KR920	Automatic allocation by NS server					922.1	922.3	922.5	922.5	-
IN865	865.785	866.185	866.385	866.585	866.785	865.0625	865.4025	865.985	865.4025	866.385

4. Hardware Interfaces



1. Install the 2 antennas



2. Use a metal cable tie to secure the box assembly to the pole

Name	Instruction
LoRaWAN antenna interface	SMA outer screw inner hole
LTE antenna interface	SMAO utor screw inner hole
Wi-Fi antenna interface	SMA Outer screw inner hole
SIM card slot	All network Mini SIM card
TF card slot	Used for firmware upgrade
DC power input	9-36 Vd input, DC5.5/2.5
power input	9-36 Vdc input
Type-C USB	Reserved by the manufacturer
Ethernet/PoE	10/100M Ethernet, supporting PoE power supply

Mechanical dimensions

Unit: mm, tolerance: $\pm 0.2\text{mm}$.