

User Manual



Introduction

DSGW-090B is a robust 8-channel indoor LoraWAN® light hotspot, which is compatible with Helium LongFi technology. Adopting SX1302 LoRa chip and secure crypto chip, DSGW-090B provide high-efficiency and reliable connection.DSGW-090B has line of sight up to 15 km can cover about 2 km in urbanized environment, which can cover larger areas and provide connectivity to more than 2000 nodes.



Indicator description



Power Indicator	The green light is on,that is the gateway is powered on.The green light is off,that is the gateway is powered off.		
LoRaWAN Indicator	When LoRaWAN is working, the signal light flashes.		
Wi-Fi Indicator Internet Indicator normally on after connecting to cloud.			

Interface description



Accessories description

Accessory	Quantity	
Gateway	1	
Power Adapter (5V2A)	1	
Mounting bracket	1	
Expansion screw	3	
Type-C Cable	1	
Network Cable	1	
User Manual	1	

Gateway Expansion Screw Expansion Bolt * 3

Unpacking description



Thrid-Part Platform (Refer to the detailed cloud docking manual for specific cloud connection operation methods: DSGW-090B Smart Programmable Gateway User manual)

1. Chripstack (DSGW-090B-L)

The ChirpStack open-source LoRaWAN Network Server stack provides open-source components for LoRaWAN networks. Together they form a ready-to-use solution including an user-friendly web-interface for device management and APIs for integration. The modular architecture makes it possible to integrate within existing infrastructures. All components are licensed under the MIT license and can be used for commercial purposes.

The link for Chripstack: https://www.chirpstack.io/

2. The ThingsStack (DSGW-090B-L)

The ThingsStack is an enterprise grade LoRaWAN network server, built on an open source core. The Things Stack allows you to build and manage LoRaWAN networks on your own hardware or in the cloud.

The link for The ThingsStack: https://www.thethingsindustries.com/docs/

3. AWS IoT Core for LoRaWAN (DSGW-090B-L)

AWS IoT Core Integration is a software service that enables your LoRaWAN gateway to work with AWS IoT Core. This document will show you how to set up a LoRaWAN end-node and view its data on the AWS IoT Console. In addition, it'll show you how to send a message from AWS IoT Console to the end-node as well.

AWS IoT Core for LoRaWAN: https://aws.amazon.com/cn/iot-core/lorawan/

FCC Statement

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference(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 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 byturning 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.

To comply with FCC RF exposure requirements, a minumum seqaration distance of 20 cm must be maintained between the user's body and the transmitter.

Warranty Service

1. Host: the whole machine warranty services of repair, replacement and refund valid for 1 year. Accessories warranty period of 3 months, that disassembly is not covered by the warranty.

2. Maintenance service mode: repair.

3. A valid invoice is an important proof of your warranty service. In order to protect your legitimate rights and interests, please make sure to obtain a formal invoice from the dealer when you purchase the device, i.e. the standard invoice of the State Taxation Bureau. The invoice should be clearly written with the brand, model, serial number and date of selling of the product, and stamped with the official seal of the dealer. Providing invoice and warranty at the same time will bring you convenience in maintenance and save your valuable time.

Protection to Fix Card

Related information (filled by user)					
User Name		Phone Number			
Correspondence Address					
Product Model		Product Number			
Production Date		Purchase Date			
Maintenance Station		Invoice Number			

Maintenance Records					
Maintenance Date					
Fault Content					
Maintenance Content					
Maintenance Station		Maintenance Station Number			
Repairer's Signature					