

WisBlock RAKBox-B4 Enclosure Installation Guide

Assembly List

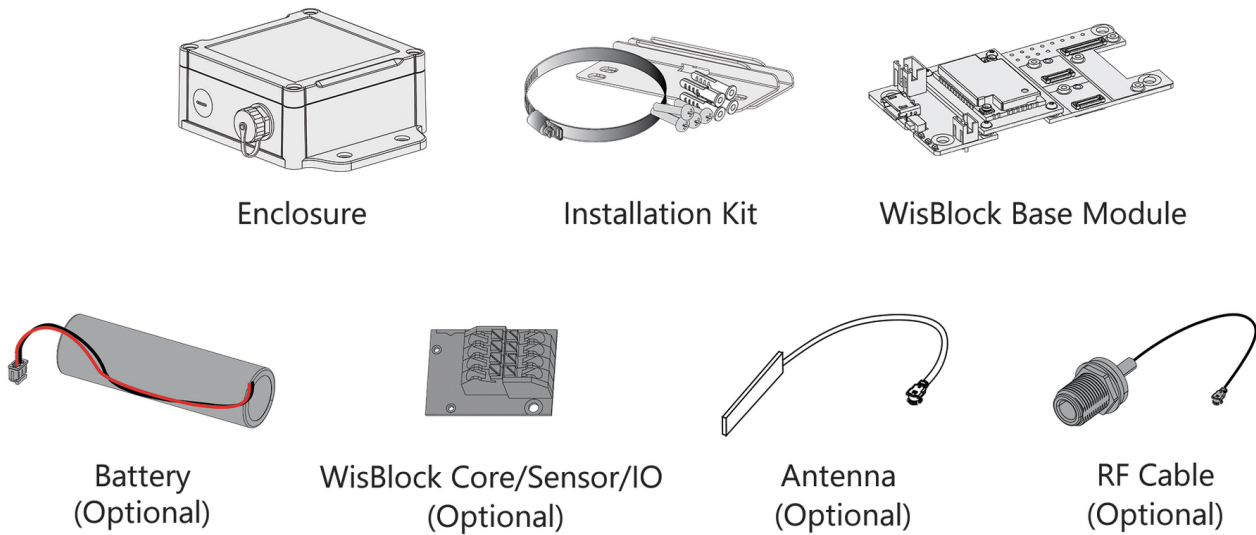


Figure 1: Assembly list

Assembly

Step 1: Fix the WisIO module with three M1.2*3 screws. For assembly method and precautions, refer to RAK5005-O Baseboard Installation Guide.

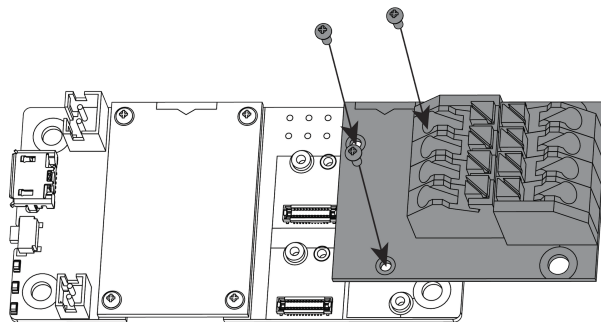
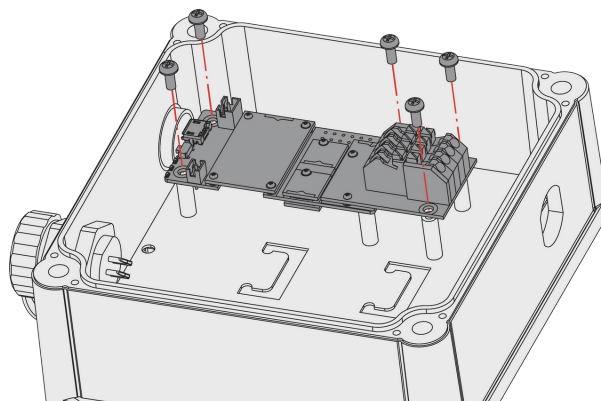


Figure 1: Attaching WisIO Module

Step 2: Fix the WisBlock module on the plate with M2.5*4 screws.

NOTE

The number of screws is related to the specific module, confirm according to the actual module.



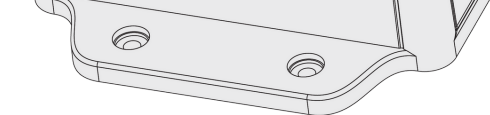


Figure 1: Attaching WisBlock Module to the Enclosure

Step 3: If N-type antenna are required, remove the plugs and replace it with the N-type antenna connector and fix it in place. The other end of the cable is plugged to the IPEX connector of the WisBlock.

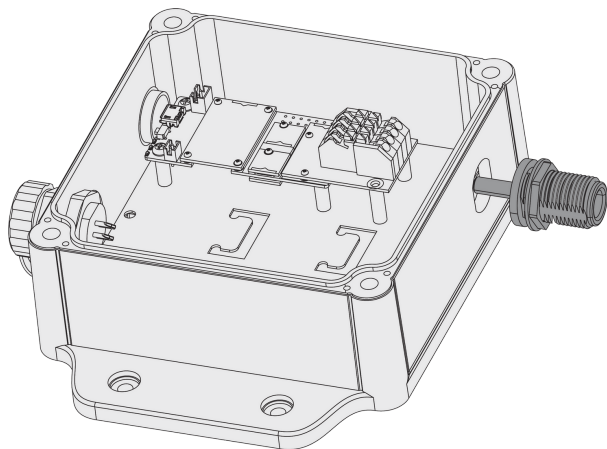


Figure 1: Attaching Antenna

Step 4: If the built-in antenna is used, please stick the built-in antenna on the inner wall of the enclosure, as shown in the figure below.

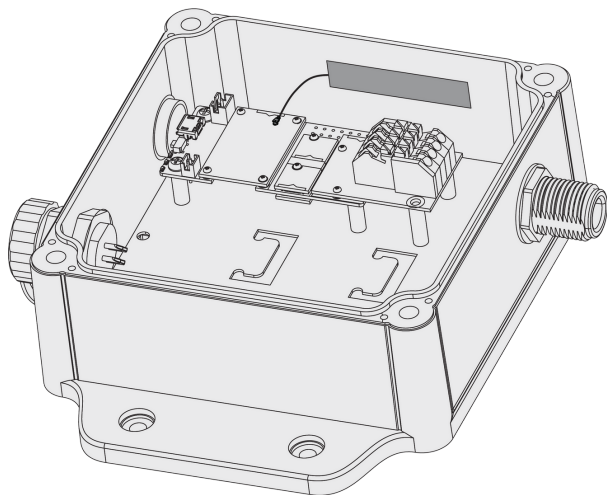


Figure 1: Attaching Built In Antenna

Step 5: Fix the battery on the plate with cable tie or double-sided adhesive sticker, and insert the battery plug into the socket of PCB.

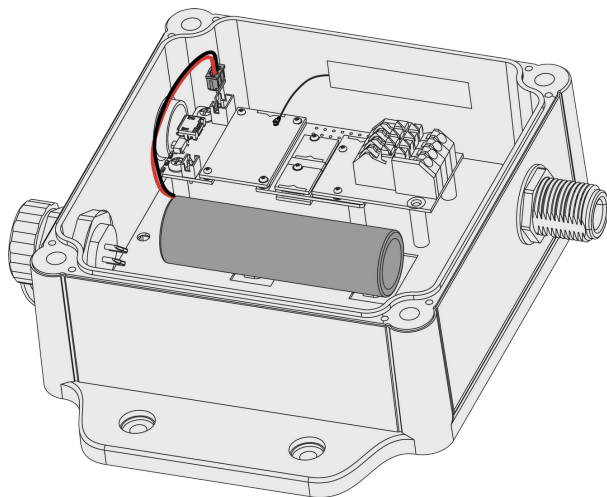
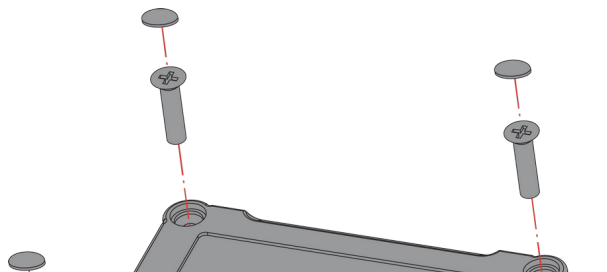


Figure 1: Battery

Step 6: Fix the cover with screws and fasten four decorative covers to the head of the screws to complete the installation.



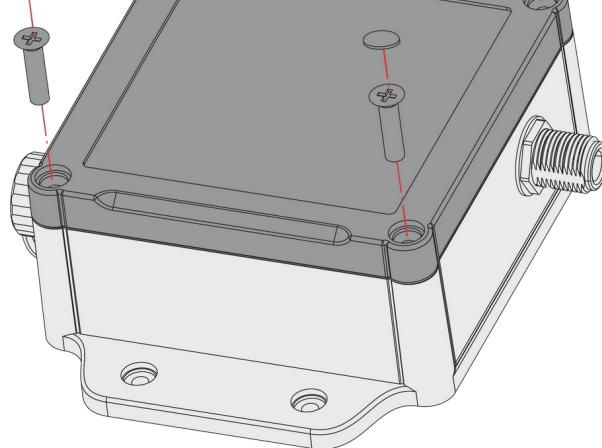


Figure 1: Cover

Installation

Wall Mounting

Step 1: Use Ø6mm drill head, drill 4 holes on the wall according to the dimension of the following picture and then plug the screw anchors in the wall;

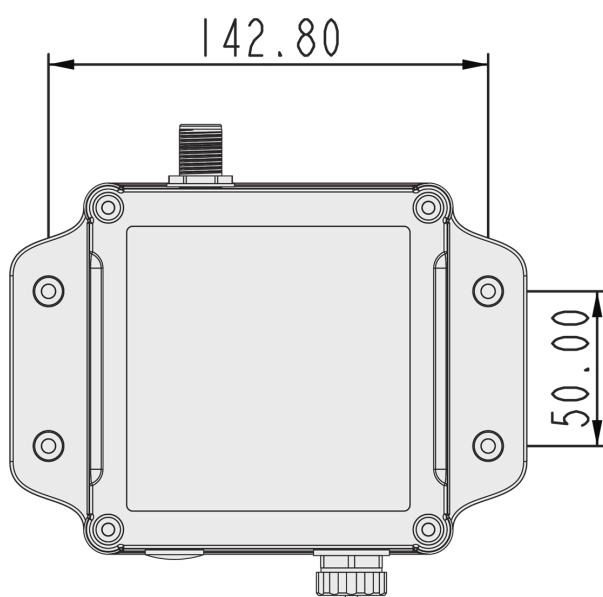


Figure 1: 4 Drill Holes

Step 2: Use the tapping screws, attach the device to the wall.

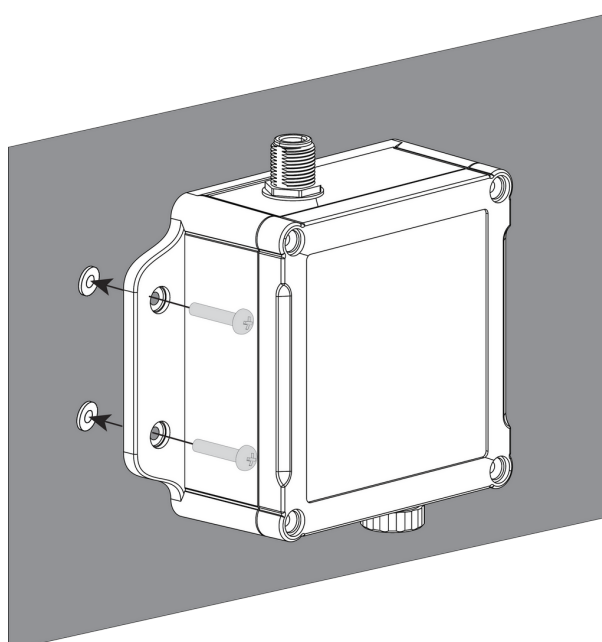
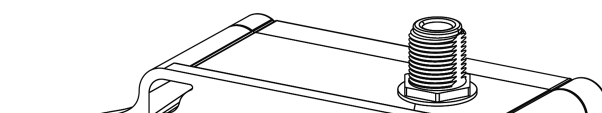


Figure 1: Wall mounting

Pole Mounting

Step 1: Fix the installation kit on the bottom of the enclosure with four M4*8 screws;



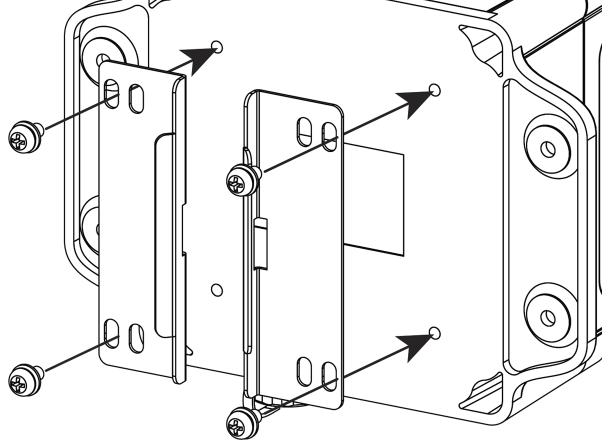


Figure 1: Pole mounting - Installation Kit

Step 2: Slide the Steel band clamps through the rectangular hole of the mount kit, wrap the band clamps around the pole, lock them and then tighten the clamps using a screwdriver.

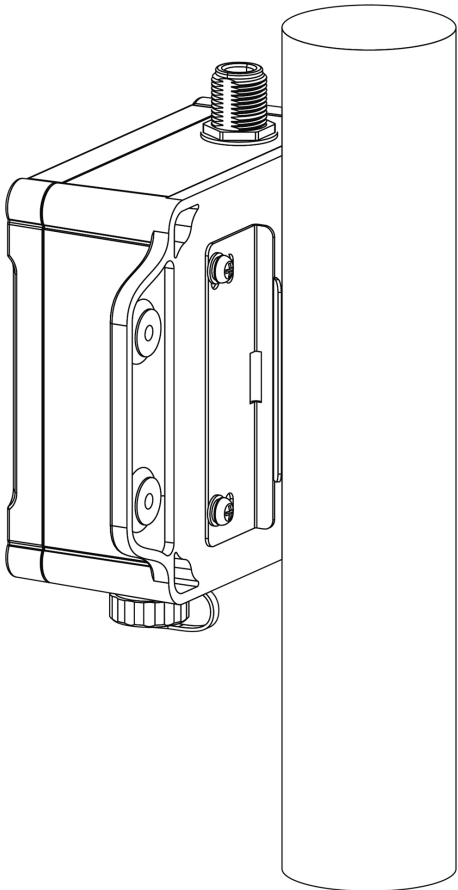


Figure 1: Pole mounting - Attaching Band Clamps

Protection treatment

Seal the N-type antenna:

Step 1: Connect the N-type antenna to the connector on the enclosure and fix it tight. Clean the surface of the area to be wrapped, wrap a layer of PVC tape with 50% overlap around the connector and the about 10mm of the foot of the antenna.

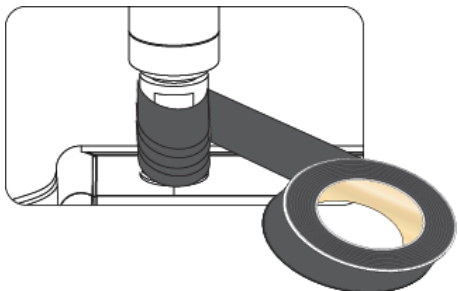


Figure 1: Protection treatment - Step 1

Step 2: Cut off about 50cm waterproof tape, stretch it to twice the original length, wrap three layers with 50% overlap rate, and hold the joint with hands for some time to let the tape cling to the connector and antenna.





Figure 1: Protection treatment - Step 2

Step 3: Wrap three layers of PVC tape over the waterproof tape around the connector and about 10mm of the foot of the antenna with 50% overlapping rate, overlap the head and tail of the waterproof tape for 10 mm, and cut the tail with scissors.

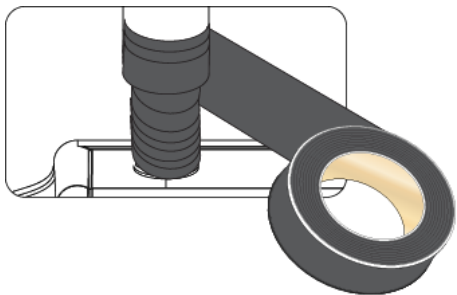


Figure 1: Protection treatment - Step 3



LoRa® is a registered trademark or service mark of Semtech Corporation or its affiliates. LoRaWAN® is a licensed mark.



Copyright © 2014-2024 RAKwireless Technology Limited.
All rights reserved.

