

Installation Guide

Package Contents

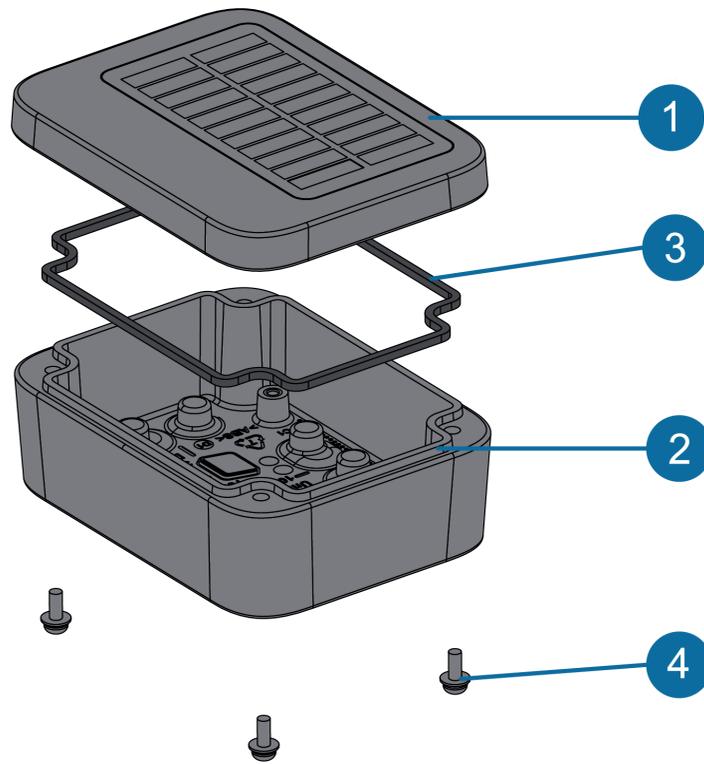


Figure 1: Small WisBlock Unify Enclosure package content

Number	Name	Quantity	Material	Color
1	Top Cover with Solar Panel	1	ABS UL94V-0	White or Grey
2	Bottom Base	1	ABS UL94V-0	White or Grey
3	Gasket	1	Silicone	Black
4	Screw	4-6	Stainless steel	

Assembly Guide

1. Prepare the Lid and Gasket

First, install the rubber gasket in the groove of the top cover, as shown in **Figure 2**. Put the four corners of the gasket into the groove, and then press the middle gently. Ensure that the gasket is not twisted.

Before assembly, check if the gasket is installed correctly. The rubber gasket helps seal the enclosure properly and protects it from dust and water.

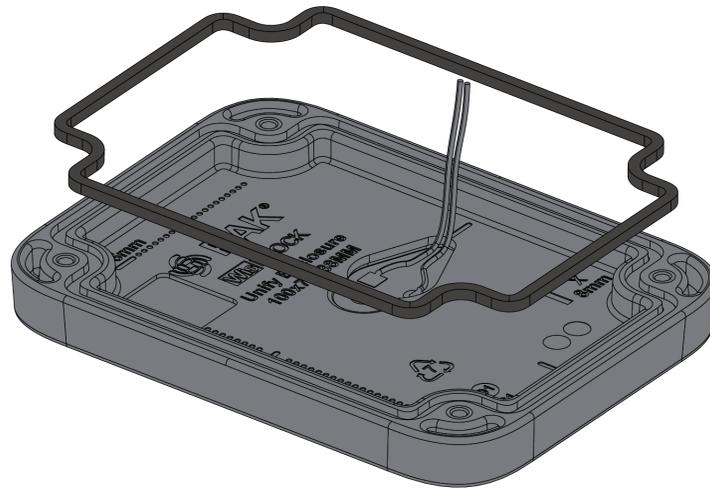


Figure 2: Installing the rubber gasket

2. Choose the Internal Mounting Plate

Next is to prepare the mounting plate. There are two types of mounting plates:

- Plain mounting plate
- WisBlock bespoke mounting plate

Plain Mounting Plate

The plain mounting plate has no holes, except for mounting holes to the enclosure. It is designed to be customized depending on the circuit board to be placed in the enclosure.

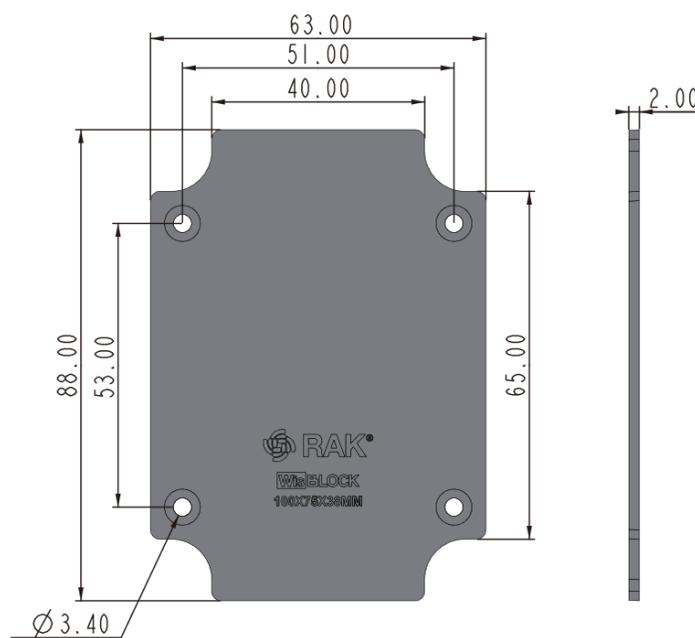


Figure 3: Plain mounting plate

WisBlock Bespoke Mounting Plate

The WisBlock Bespoke Mounting Plate is designed specifically to hold WisBlock Base boards. You have to cut the excess bosses or parts with a wire cutter depending on the WisBlock Base board that you have.

The following guide shows what to cut depending on the WisBlock Base board.

 **NOTE**

For the cutting reference, the red line is the cut-out area.



Figure 4: Cutting-out excess parts of the WisBlock Internal mounting plate

RAK5005-O

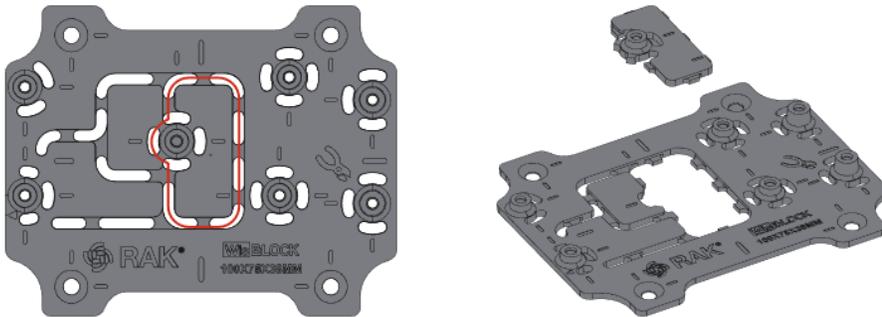


Figure 5: RAK5005-O WisBlock Base board cut-out area

RAK19007

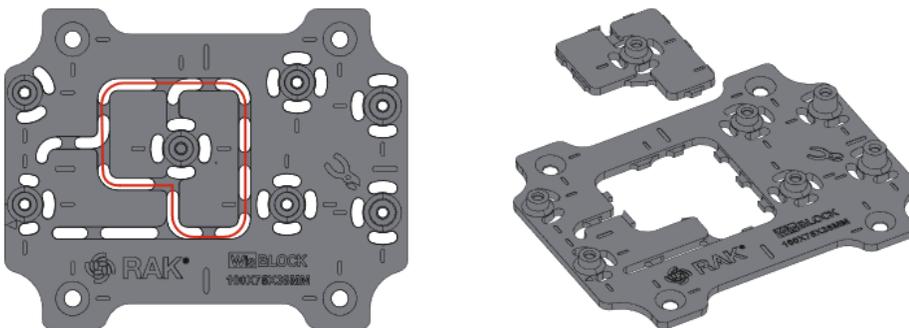


Figure 6: RAK19007 WisBlock Base board cut-out area

RAK19003

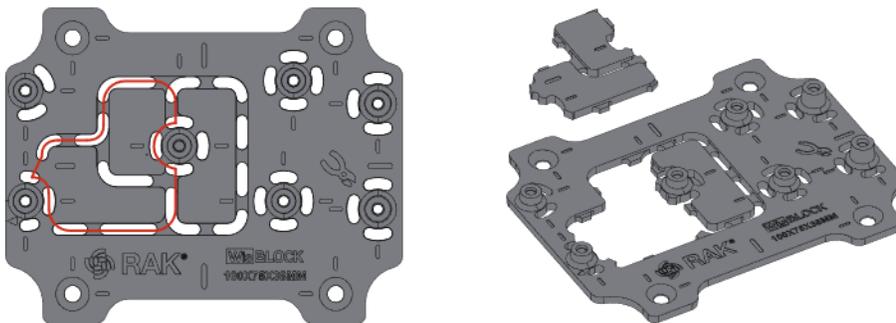


Figure 7: RAK19003 WisBlock Base board cut-out area

3. Screw the WisBlock to Internal Mounting Plate

After cutting the Internal Mounting Plate, install the WisBlock Base board onto the Internal Mounting Plate with 2.2*5 mm self-tapping screws, as shown in **Figure 8**.

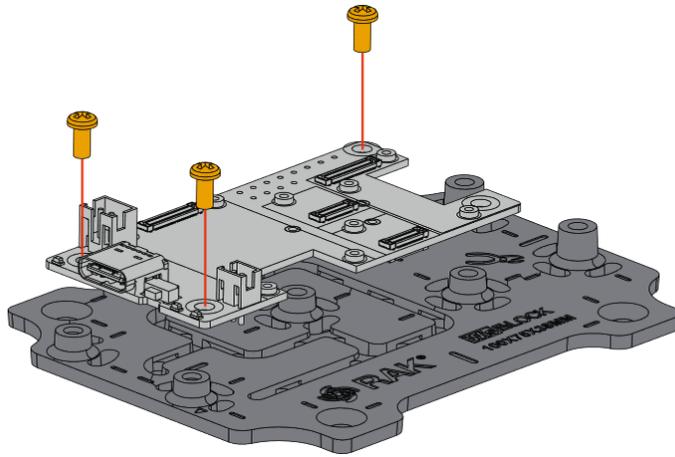


Figure 8: Installing WisBlock Base board on the internal mounting plate

4. Attach the Mounting Plate to the Enclosure

Then install the WisBlock Internal Mounting Plate to the base of the enclosure using four (4) pieces of M3*4 mm Countersunk head screws, as shown in **Figure 9**.

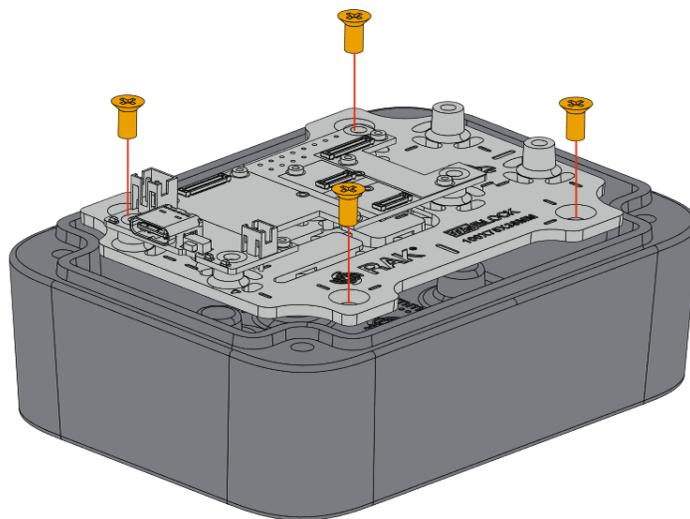


Figure 9: Installing Internal Mounting Plate to the enclosure

5. Cover the Enclosure with a Lid

Finally, close the WisBlock Unify Enclosure with the top lid using four pieces of M3*8 mm head screw with a washer, as shown in **Figure 10**.

NOTE

You have to ensure that the **solar panel wire** will not be squeezed by the gasket and is properly arranged inside the enclosure with the other parts inside like the circuit board, stand-offs, screws, etc.

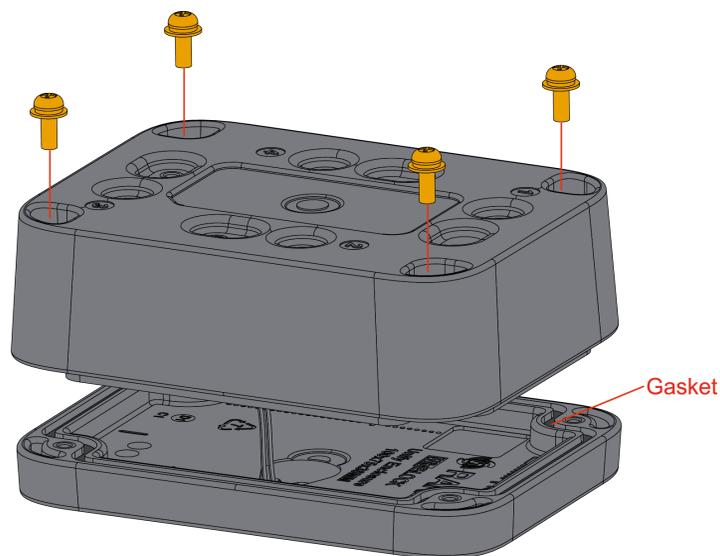


Figure 10: Closing the WisBlock Unify Enclosure

Mounting Guide

After full assembly of the enclosure, the next step is to choose the right mounting accessory for your application:

- Pole Mount Vertical (Mark A)
- Wall Mount (Mark D)
- Belt Clip Mount (Mark E)
- DIN Mount (Mark F)
- Magnet Mount (Mark G)
- Belt Loop Mount (Mark H)
- Label Mount (Mark I)
- Hook Loop Mount (Mark J)

Each mount accessory has a mark indicated by a capital letter, as shown in **Figure 11**, and each WisBlock Unify Enclosure has several fixed positions, which are indicated by a mark of numerals, as shown in **Figure 12**. The small-sized WisBlock Unify Enclosure has only four (4) fixed positions.

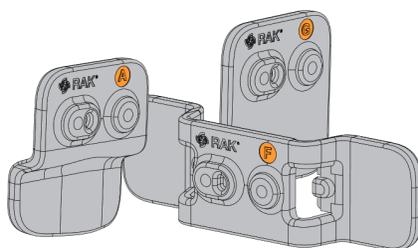


Figure 11: Mount accessories marked with letters

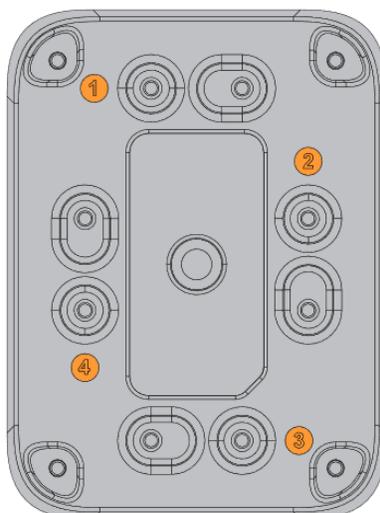


Figure 12: WisBlock Unify Enclosure marked with numerals

Pole Mount Vertical (Mark A)

1. For vertical pole mount, use two (2) pieces of mount accessories, which has an indicated mark of the letter **A**, as shown in **Figure 13**.



Figure 13: Mount accessory marked with letter A

2. Fix the pole mounts marked with the letter **A** on the WisBlock Unify Enclosure using four (4) pieces of M3*8 mm Head screw with a washer. Place it on fixed positions number **1 & 3** of the enclosure as shown in **Figure 14**.

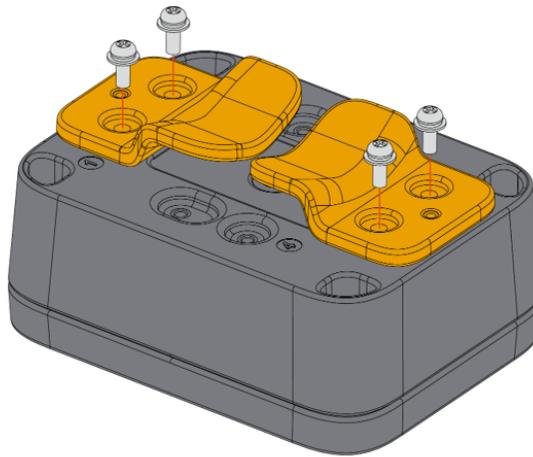


Figure 14: Fixing the pole mount on the enclosure

Size	Fix Position
Small	1 & 3

3. After fixing the mounts on the enclosure, place the WisBlock Unify Enclosure onto the pole by using two (2) steel strips (60-85 mm), as shown in **Figure 15**.

 **NOTE**

The steel strips **ONLY** support 60-85 mm diameter of the pole.

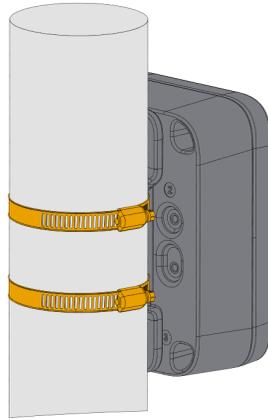


Figure 15: Fixing the enclosure on the pole

Wall Mount (Mark D)

1. For wall mount, use two (2) pieces of mount accessories with an indicator marked with the letter **D**, as shown in **Figure 16**.

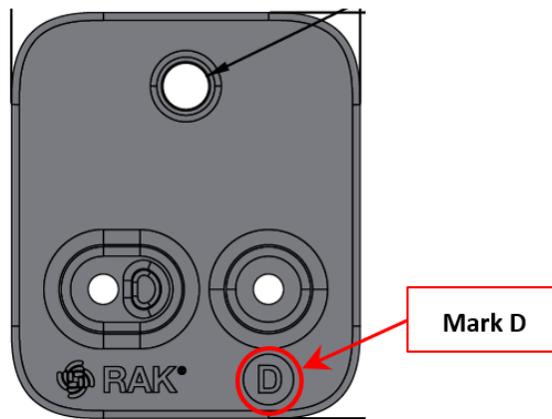


Figure 16: Mount accessory marked with letter D

2. Fix the wall mounts marked with the letter **D** on the WisBlock Unify Enclosure using four (4) pieces of M3*8 mm head screw with a washer. Place it on fixed positions number **1 & 3** or **2 & 4** of the enclosure, as shown in **Figure 17**.

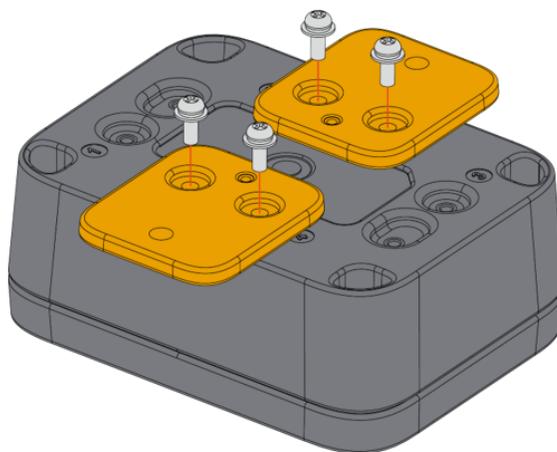


Figure 17: Fixing the wall mount on the enclosure

Size	Fix Position
Small	1 & 3 or 2 & 4

3. Lastly, follow the steps below, as also shown in **Figure 18**:

- **Step 1:** Use a $\Phi 5$ mm drill head to drill holes in the wall. Drill at least 55-60 mm in depth.

- **Step 2:** Plug the screw anchors into the drilled holes. You can use a hammer to plug it in. It helps the screws to have a secure fit on the wall.
- **Step 3:** Fix the WisBlock Unify Enclosure on the wall using two (2) pieces of st3.5*35 mm tapping screws.

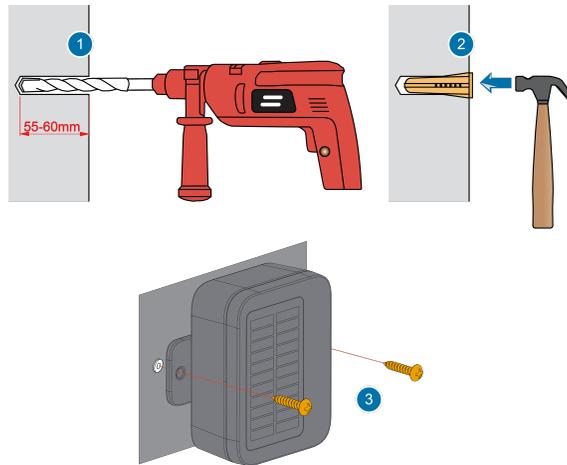


Figure 18: Fixing the enclosure on the wall

Belt Clip Mount (Mark E)

1. For belt clip mount, use one (1) piece of mount accessory with an indicator marked with the letter **E**, as shown in **Figure 19**.

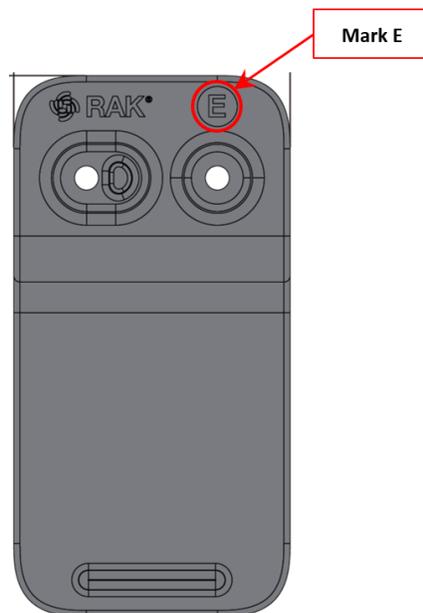


Figure 19: Mount accessory marked with letter E

2. Fix the belt clip mount marked with the letter **E** on the WisBlock Unify Enclosure using two (2) pieces of M3*8 mm Head screw with washer. Place it on fixed positions number **1** or **3** of the enclosure as shown in **Figure 20**.

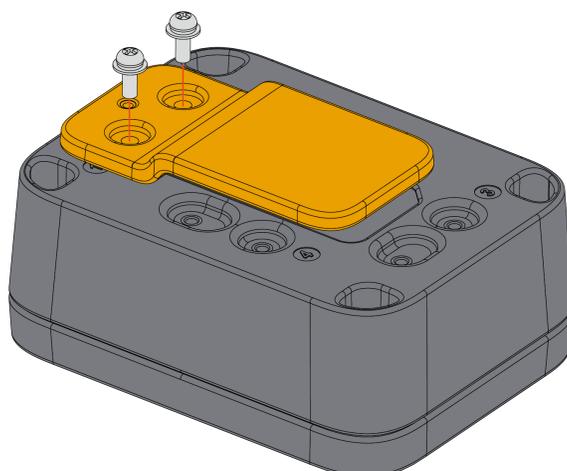


Figure 20: Fixing the belt clip mount on the enclosure

Size

Fix Position

Small

1 or 3

3. Lastly, clip the unify enclosure on the belt directly as shown in **Figure 21**.

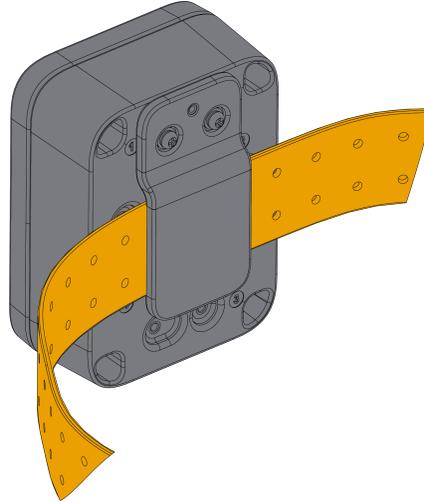


Figure 21: Fixing the enclosure on the belt clip

DIN Mount (Mark F)

1. For DIN mount, use two (2) pieces of mount accessories with an indicator marked with the letter **F**, as shown in **Figure 22**.

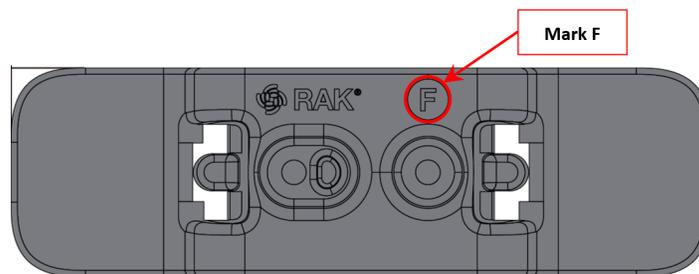


Figure 22: Mount accessory marked with letter F

2. Fix the DIN mount marked with the letter **F** on the WisBlock Unify Enclosure using four (4) pieces of M3*8 mm Head screw with the washer. Place it on fixed positions number **1 & 3** or **2 & 4** of the enclosure as shown in **Figure 23** and **Figure 24**.

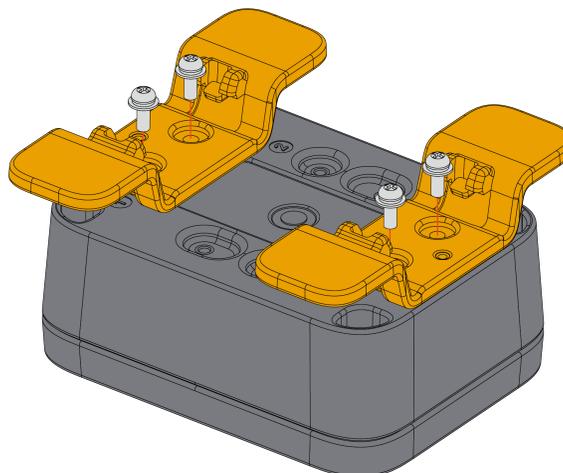


Figure 23: Fixing the DIN mount on the enclosure's position number 1 & 3

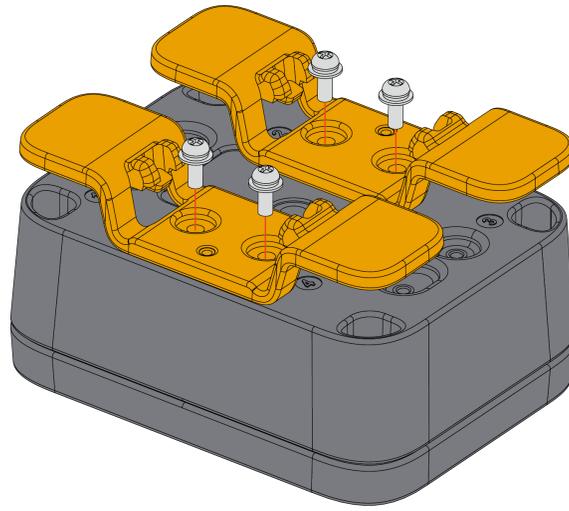


Figure 24: Fixing the DIN mount on the enclosure's position number 2 & 4

Size	Fix Position
Small	1 & 3 or 2 & 4

3. Lastly, clamp the buckle of the DIN mount kit at one end on the edge of the DIN rail, then rotate and press the enclosure to clamp the other end as shown in **Figure 25**.

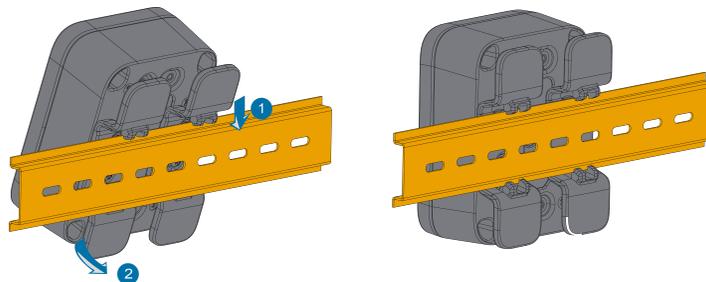


Figure 25: Fixing the enclosure on the DIN rail

Magnet Mount (Mark G)

1. For magnet mount, use one (1) up to two (2) pieces of mount accessories with an indicator marked with the letter **G** as shown in **Figure 26**.

 **NOTE**

- The number of magnets used will depend on the weight of the device and enclosure.

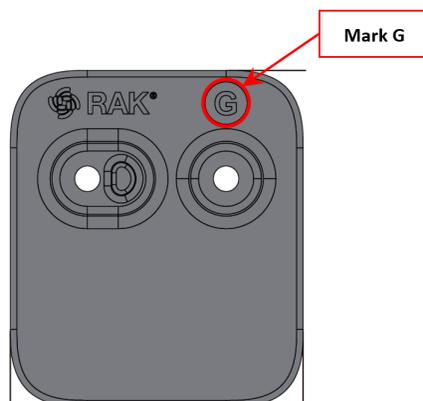


Figure 26: Mount accessory marked with letter G

2. Fix the magnet mount marked with the letter **G** on the WisBlock Unify Enclosure using one (1) to two (2) pieces of M3*8 mm Head screw with washer. Place it on fixed positions number **1 & 3** of the enclosure as shown in **Figure 27**.

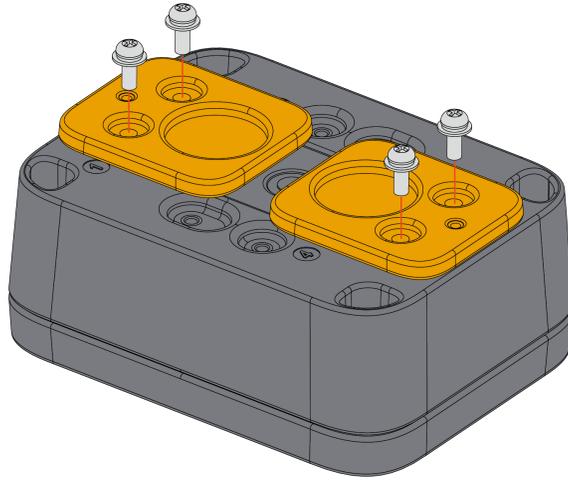


Figure 27: Fixing the magnet mount on the enclosure

Size	Fix Position
Small	1 & 3

3. Place the magnets onto the mounting as shown in **Figure 28**.

 **NOTE**

- Please confirm the number of magnets according to the weight of the device. The small unify enclosure supports up to 2 magnets.

 **WARNING**

- Avoid placing the enclosure too high or in an environment that vibrates, shocks, or is unstable because doing so could result in equipment damage or physical injury.
- The effect of magnet adsorption is related to the material of adsorption position, surface spraying thickness, and roughness, so it can only be used after confirming that the installation effect is not a problem. If the surface condition of the installation position is not good, it may also affect the reliability of the magnet installation.
- When the enclosure is fixed on the desk by magnetic suction, do not push it back and forth artificially, otherwise, the coating on the contact surface will be damaged.
- During installation, pay attention to the fixation of the external cable of the device to avoid falling off the enclosure due to the excessive weight of the external cable, resulting in personal injury or equipment damage.
- Do not put the magnet close to the magnetic card and other products, or else the stored content of the product may be erased.
- Do not put the magnet close to the computer and other electronic equipment susceptible to the magnetic field, otherwise, it may cause electronic equipment-related failure.

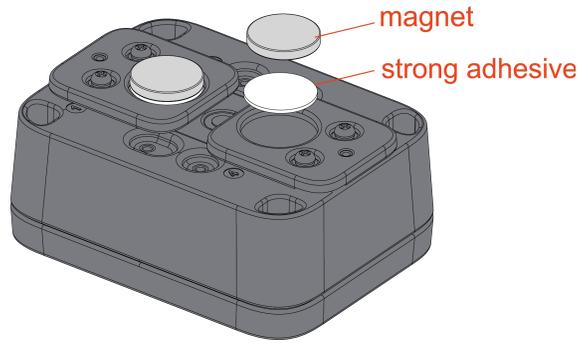


Figure 28: Fixing the magnet mount on the enclosure

- The magnet should be ordered separately. Consult before placing an order.

No.	Diameter	Thickness	Material	Adsorption
1	20 mm	3 mm	NdFeB	2800 Gauss (TBD)
2	20 mm	5 mm	NdFeB	3100 Gauss (TBD)

⚠ WARNING

Handle with care to avoid personal injury or damage to the magnet.

4. Lastly, attach the unify enclosure onto a metallic surface. Be careful not to pinch your fingers due to the high magnetism.

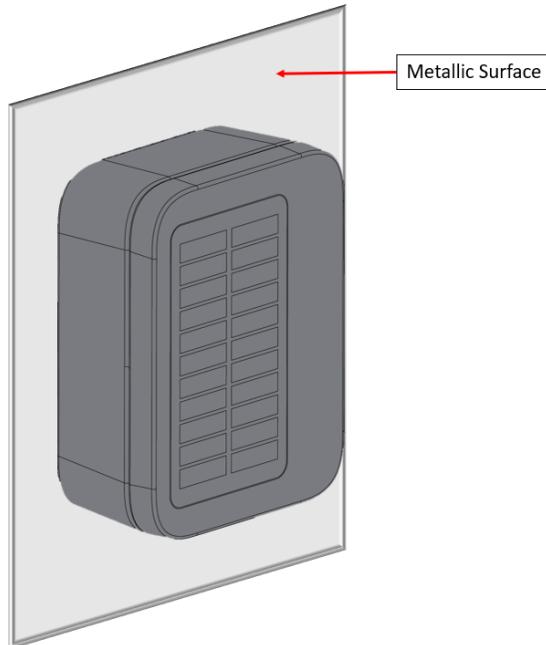


Figure 29: Fixing the enclosure onto the metal surface

Belt Loop Mount (Mark H)

1. For belt loop mount, use two (2) pieces of mount accessories with an indicator marked with the letter **H**, as shown in **Figure 30**.

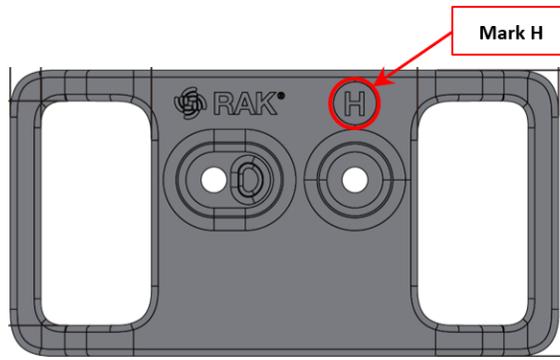


Figure 30: Mount accessory marked with letter H

2. Fix the belt loop mount marked with the letter **H** on the WisBlock Unify Enclosure using four (4) pieces of M3*8 mm Head screw with a washer. Place it on fixed positions number **1 to 4** of the enclosure as shown in **Figure 31**.

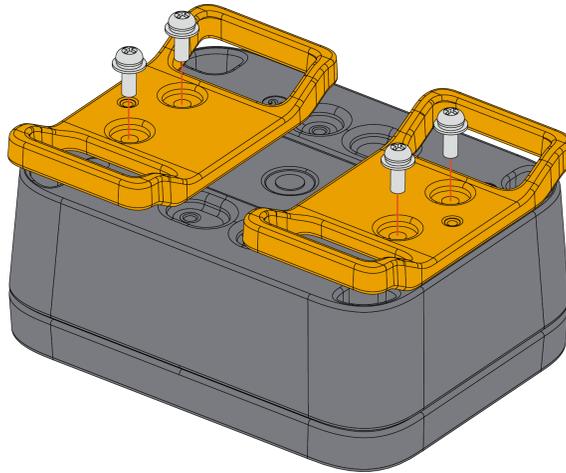


Figure 31: Fixing the belt loop mount on the enclosure

Size	Fix Position
Small	1 - 4

3. Lastly, thread the belt through the hole of the unify enclosure as shown in **Figure 32**.

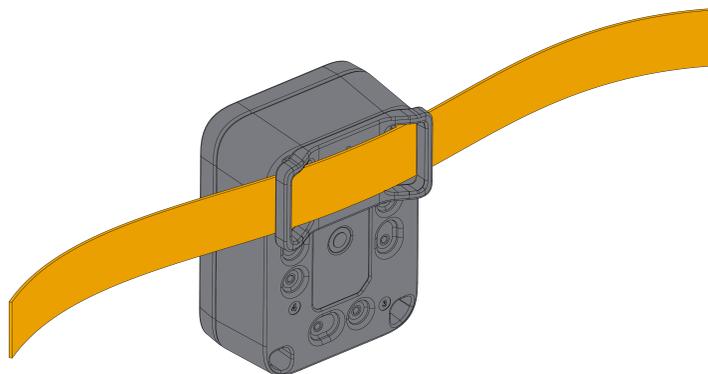


Figure 32: Fixing the enclosure on the belt thread

Label Mount (Mark I)

1. For label mount, use one (1) piece of mount accessory with an indicator marked with the letter **I**, as shown in **Figure 33**.



Figure 33: Mount accessory marked with letter I

2. Fix the label mount marked with the letter I on the WisBlock Unify Enclosure using two (2) pieces of M3*8 mm Head screw with washer. Place it on fixed position numbers **1 to 4** of the enclosure as shown in **Figure 34**.

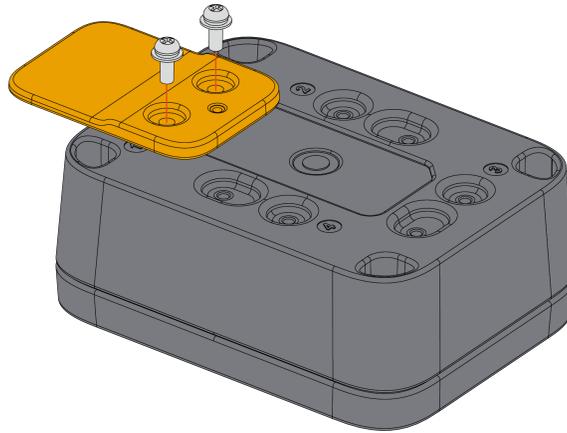


Figure 34: Fixing the label mount on the enclosure

Size

Fix Position

Small

1 - 4

3. Lastly, you can paste a 30x18 mm Fillet R4 label in the label zone as shown in **Figure 35** and **Figure 36**.

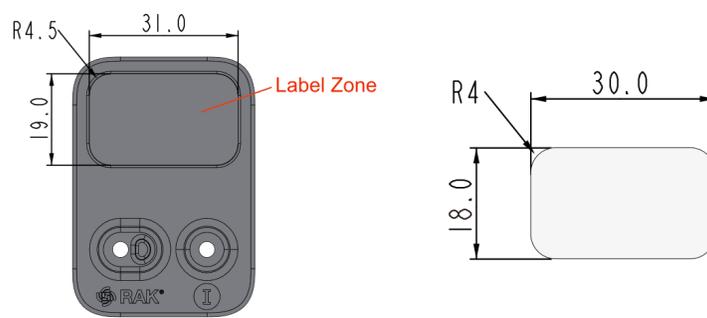


Figure 35: Label dimension

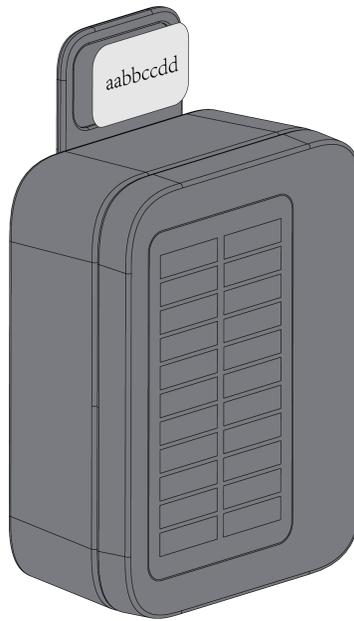


Figure 36: Attaching the label on the enclosure

Hook Loop Mount (Mark J)

1. For hook loop mount, use one (1) piece of mount accessory with an indicator marked with the letter **J**, as shown in **Figure 37**.

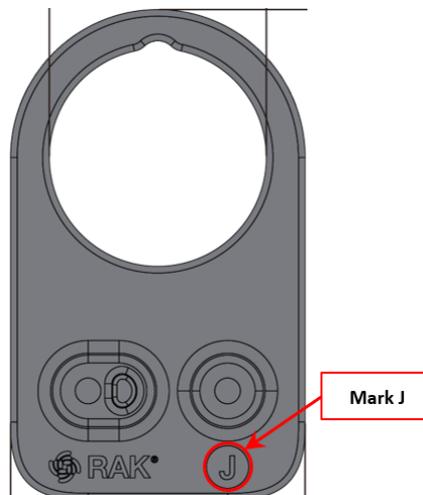


Figure 37: Mount accessory marked with letter J

2. Fix the hook loop mount marked with the letter **J** on the WisBlock Unify Enclosure using two (2) pieces of M3*8 mm Head screw with washer. Place it on fixed position number **1** or **3** of the enclosure as shown in **Figure 38**.

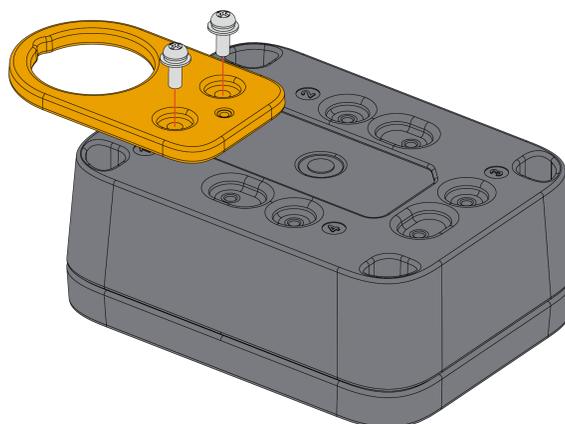


Figure 38: Fixing the hook loop mount on the enclosure

Size

Fix Position

Small

1 or 3

3. Lastly, hang the unify enclosure directly on a hook.

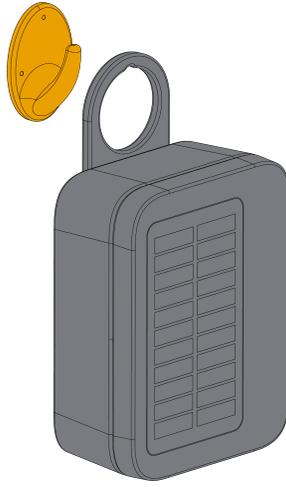


Figure 39: Fixing the enclosure on the hook

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