Extended Module

INSTALLATION GUIDE

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English
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suprema
SECURITY & BIOMETRICS

CONTENTS

Safety Instructions 3

Compliance Information 3

Getting Started 6

Components 6

Name and function of each part 7

Cables and connectors 7

Installation example 9

Installation 10

Install on BioStation 3 10

Install on BioStation 2a 16

Product Specifications 19

General 19

Interface 19

Dimensions and Weight 20

Appendices 21

Disclaimers 21

Copyright Notice 21

Safety Instructions

Please read this safety instructions before you use the product to prevent injury to yourself and others and to prevent property damage.

The term ‘product’ in this manual refers to the product and any items provided with the product.

Compliance Information

Warning

Used to indicate warning information that could lead to serious injury or death if violated while using the product.

Caution

Used to indicate caution information that may result in minor injury or product damage if violated while using the product.

Info

Used to provide notes or additional information while using the product.

Note

Used to provide notes or additional information while using the product.

⚠ Warning

Install

Be especially careful of miswiring when using high-capacity power supplies.

- Serious fires, electric shocks, or product damage may occur due to miswiring.

Do not allow users to install or repair the product arbitrarily.

- Causes fire, electric shock, or injury.
- No free repair service will be provided if the product is damaged due to arbitrary installation or repair by the user.

Do not install the product in places exposed to direct sunlight, moisture, dust, or soot, or where gas may leak.

- May cause fire or electric shock.

When installing the product outdoors, make sure to install it in a shaded and well-ventilated area.

Do not use a completely sealed enclosure when installing the product outdoors.

- The internal temperature of the enclosure may rise due to direct sunlight, causing fire, electric shock, or product damage.

Do not install the product in places where heat is generated, such as near heaters.

- May cause fire or electric shock due to overheating.

Do not install in damp places.

- May cause electric shock or product damage due to moisture.

Do not install in places with electromagnetic interference.

- May cause electric shock or product damage.

Usage

Do not allow liquids such as water, beverages, or chemicals to enter the product.

- May cause fire, electric shock, or product damage.

Do not use damaged power adapters or plugs, or loose outlets.

- If connections are unstable, may cause fire or electric shock.

Do not bend or break the power cord excessively.

- May cause fire or electric shock.

⚠ Caution

Install

Read this manual carefully before installing the product to ensure safe and correct installation.

When wiring power cables and connectors, make sure to turn off the power to all devices you are connecting before wiring and connecting.

- Devices may malfunction.

Do not install the product in places directly exposed to sunlight or ultraviolet light.

- May cause product damage, malfunction, discoloration, or deformation.

Do not install near strong magnetic objects such as magnets, TVs, CRT monitors, or speakers.

- The device may malfunction.

Usage

Do not drop or subject the product to shock.

- The device may malfunction.

Be careful when cleaning the product.

- Gently wipe the product surface with a clean, dry cloth.
- If disinfecting the product, dampen a clean cloth with a suitable amount of disinfectant alcohol and gently wipe the product surface. Use disinfectant alcohol that contains 70-75% isopropyl alcohol and a clean, lint-free soft cloth.
- Do not spray disinfectant directly onto the product.

Do not use the product for purposes other than its intended use.

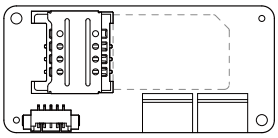
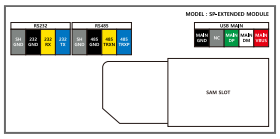
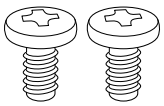
- The device may malfunction.

Getting Started

Provides initial procedures for getting started with the device.

> **Caution**
> Connection of the expansion module is not supported on standard firmware, so a separate custom firmware is required.

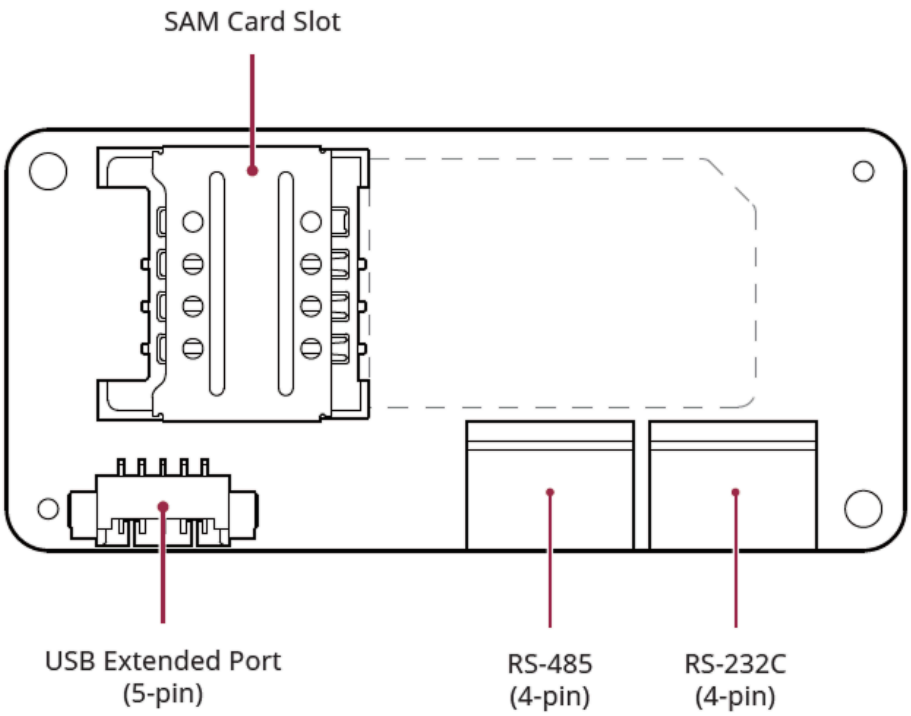
Components

		
Expansion Module	Pin Map Label	Fixing Screws x2

	
RS-232C Cable	RS-485 Cable
	
USB Expansion Port Connection Cable (BioStation 3)	USB Expansion Port Connection Cable (BioStation 2a)

> **Info**
>
> - Components may vary according to the installation environment.

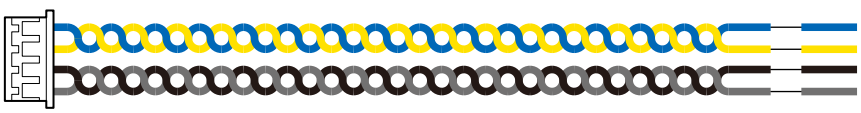
Name and function of each part



- **SAM Card Slot**: You can use SAM (Secure Access Module) cards.
- **USB Expansion Port (5-pin)**: Connects the device to the expansion module.
- **RS-485 (4-pin)**: Connect the RS-485 cable.
- **RS-232C (4-pin)**: Connect the RS-232C cable.

Cables and connectors

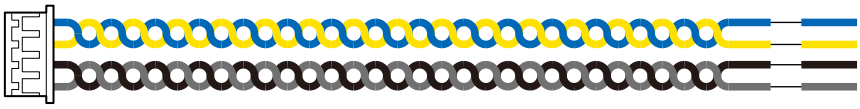
RS-232C



Pin	Name	Color
1	232 TX	Blue
2	232 RX	Yellow
3	232 GND	Black

Pin	Name	Color
4	SH GND	Gray

RS-485



Pin	Name	Color
1	485 TRXP	Blue
2	485 TRXN	Yellow
3	485 GND	Black
4	SH GND	Gray

USB Expansion Port Connection Cable



Pin	Name	Color
1	MAIN VBUS	Red
2	MAIN DM	White
3	MAIN DP	Green
4	NC	-
5	MAIN GND	Black

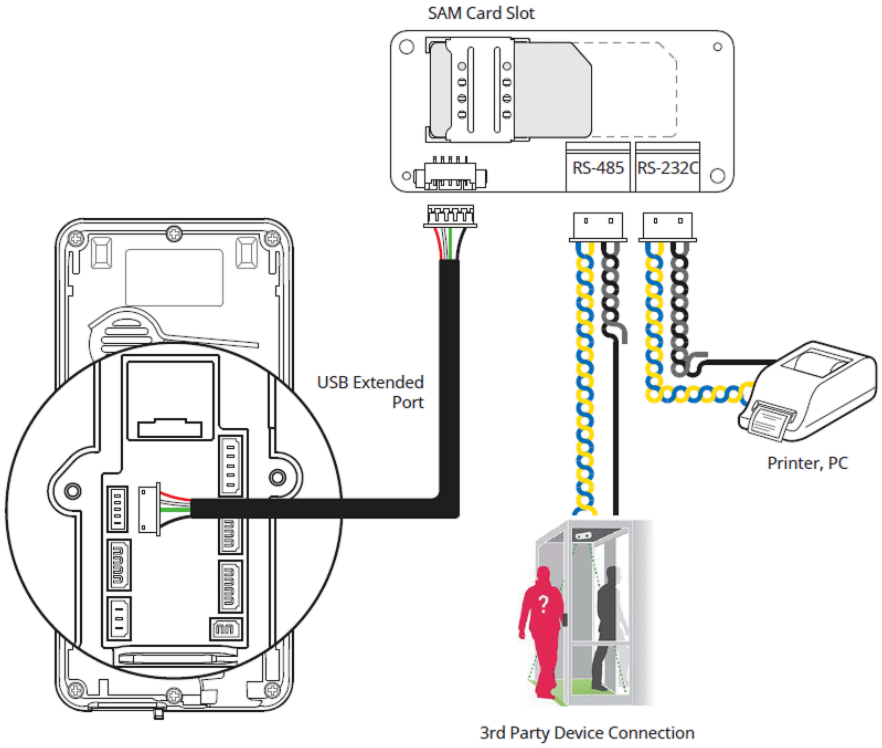
Installation example

> **Caution**
> Connection of the expansion module is not supported on standard firmware, so a separate custom firmware is required.

Mounting the expansion module on the Suprema allows the use of additional RS-485, RS-232C ports, and SAM cards.

The Suprema devices that can accommodate the expansion module are as follows.

- BioStation 3
- BioStation 2a



Installation

Provides the complete installation procedures and connection examples required for the device.

Install on BioStation 3

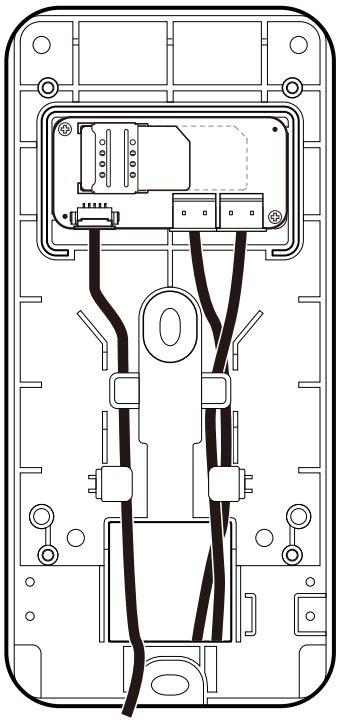
> **Info**
>
> - To install the expansion module on the product, an expansion bracket (sold separately) is required.
> - For purchasing the expansion bracket, please contact your Supremma product retailer.

1. Check the position on the expansion bracket for attaching the expansion module and secure the expansion module using fixing screws.

2. Connect the cable you wish to use to the expansion module and place it into the bottom slot to organize the cable.

   As shown in the image, keep the MAIN USB cable inside and route the RS-232C and RS-485 cables out the back through the bottom slot.

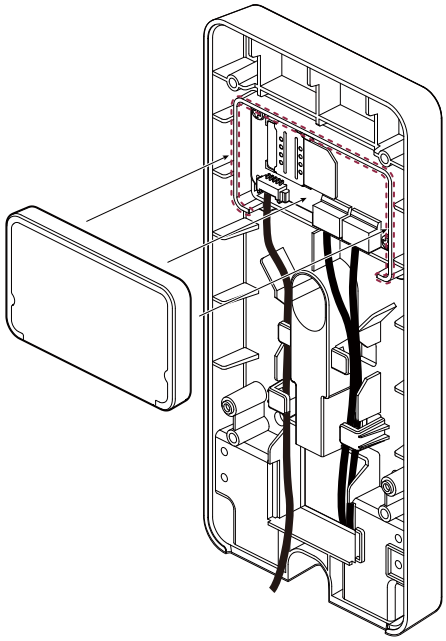
   Insert the SAM card into the SAM card slot if you want to use the SAM card.



Info

If necessary, you can bend the indicated parts with cutters or pliers to expand the wiring space.

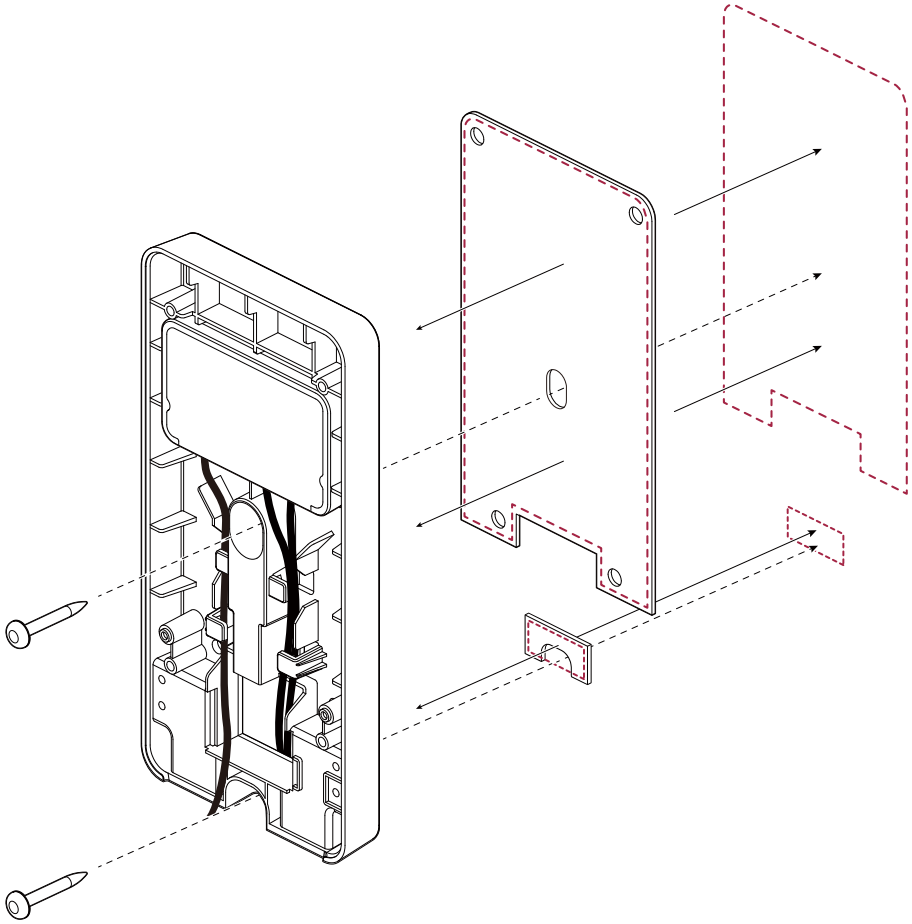
3. Install the silicone rubber cover to fit around the expansion module.



Info

To meet the IP65 rating, you must install the silicone rubber cover after connecting the cables.

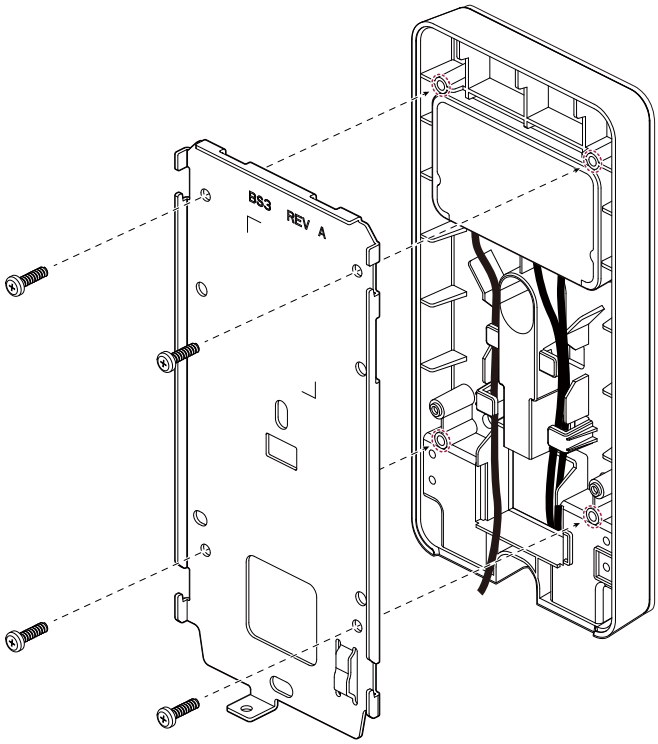
4. Attach the included double-sided tape to the back of the expansion bracket and secure it in place. Then, use fixing screws to firmly secure the expansion bracket.



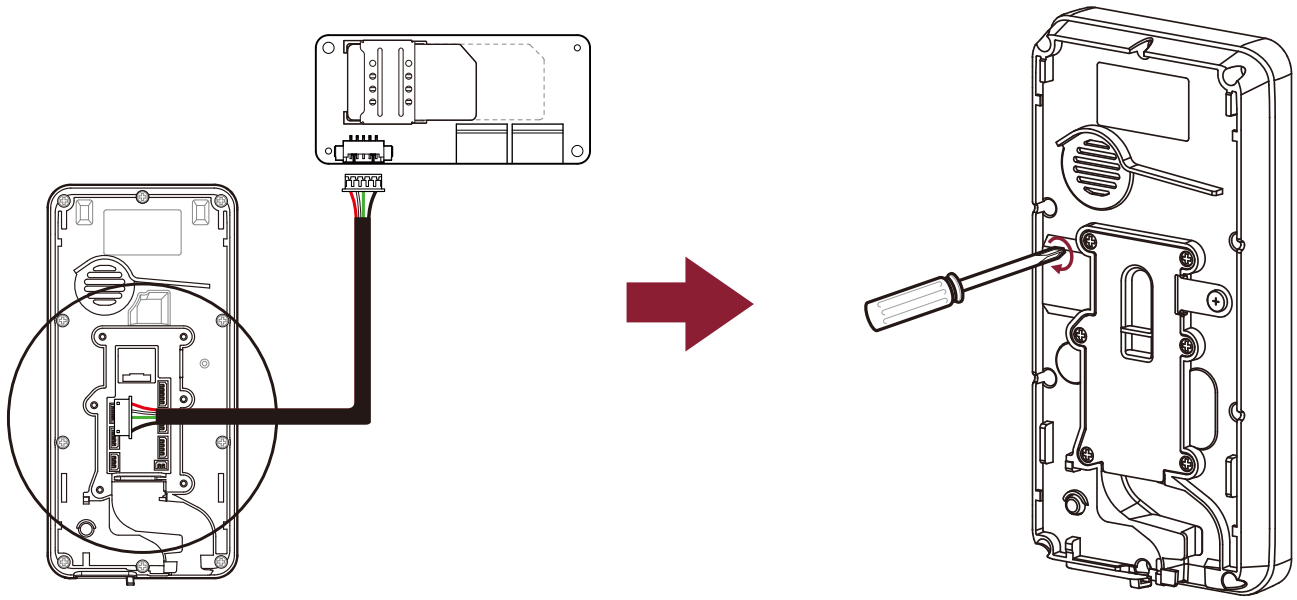
Info

- The optimal height for installing device is 136 cm.
- Do not install the device in a location directly exposed to sunlight or ultraviolet rays.
- Adjust the installation position so that the face is not exposed to direct sunlight when a user tries to authenticate.

5. Secure the wall bracket using fixing screws on top of the expansion bracket.

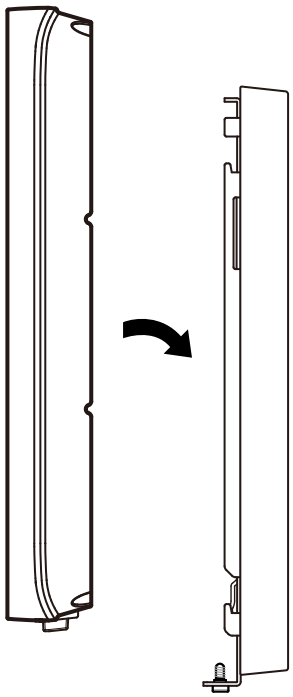


6. Connect the product and the MAIN USB cable, and assemble the cable cover.

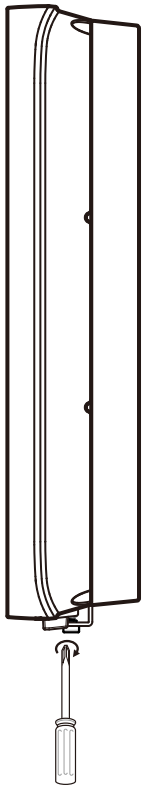


> **Info**
>
> To meet the IP65 waterproof and dustproof ratings, it is essential to use the cable cover after connecting the product and cables.

7. Mount the product on the secured wall bracket.



8. Tighten the product fixing screws to assemble the product and the wall bracket.

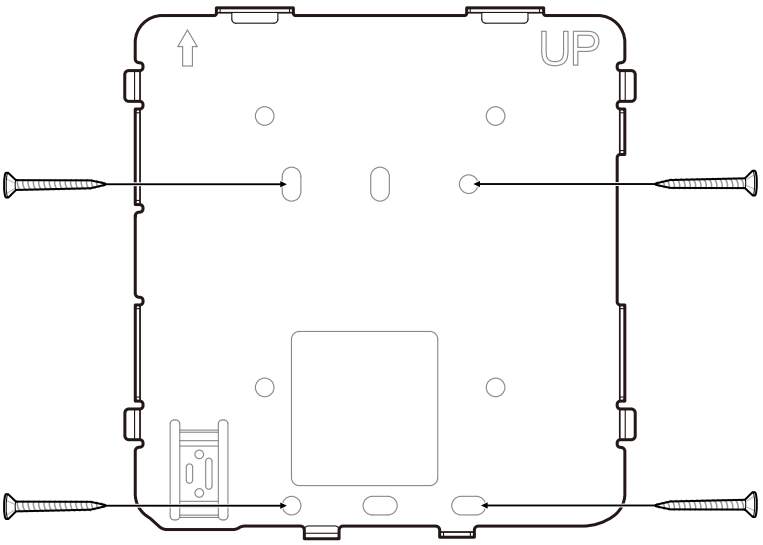


Info

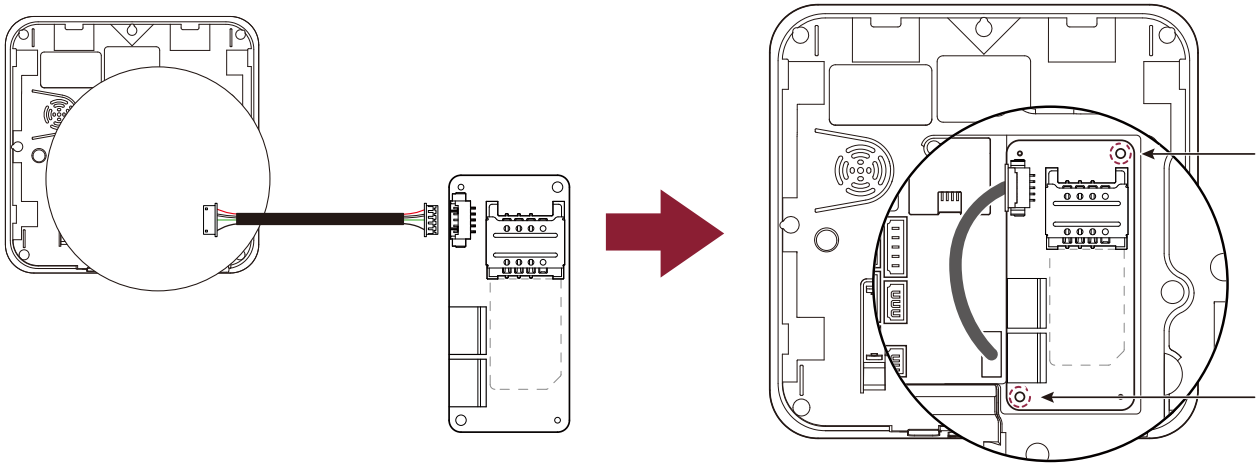
When assembling the product with the bracket, you can use the included bracket fixing screw (Star Shaped) instead of the product fixing screw for enhanced security.

Install on BioStation 2a

1. Use the provided drilling template to determine the mounting position for the wall bracket. Secure the wall bracket tightly using fixing screws at the location where the product will be mounted.

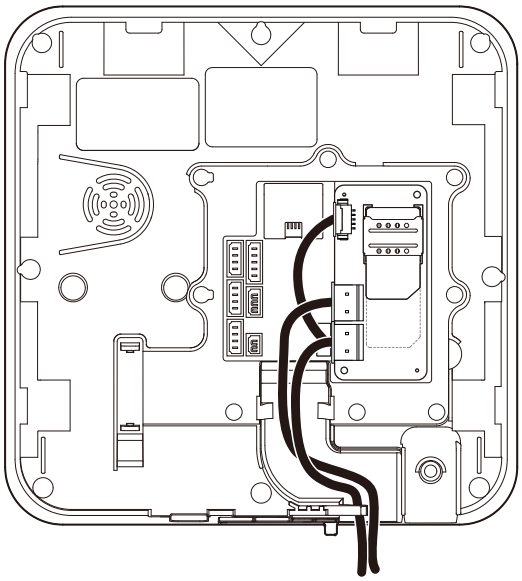


2. Connect the MAIN USB cable to the product and check the position for installing the expansion module before securing it with fixing screws.

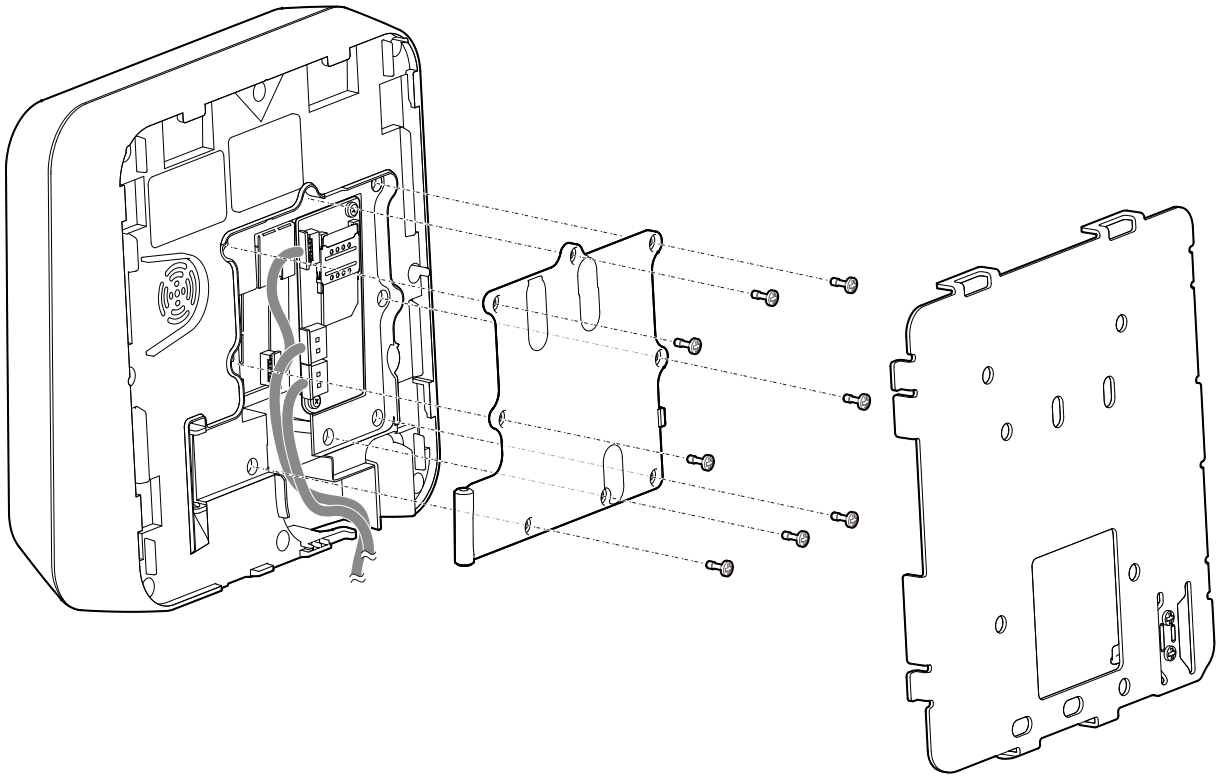


3. Connect the cable you wish to use to the expansion module and place it into the bottom slot to organize the cable.

   Insert the SAM card into the SAM card slot if you want to use the SAM card.



4. After assembling the cable cover, mount the product on the secured wall bracket.



> **Info**
> To meet the IP65 waterproof and dustproof ratings, it is essential to use the cable cover after connecting the product and cables.

5. Tighten the product fixing screws to assemble the product and the wall bracket.

Info

When assembling the product with the bracket, you can use the included bracket fixing screw (Star Shaped) instead of the product fixing screw for enhanced security.

Product Specifications

Provides key specifications of the product, including size, features, and performance.

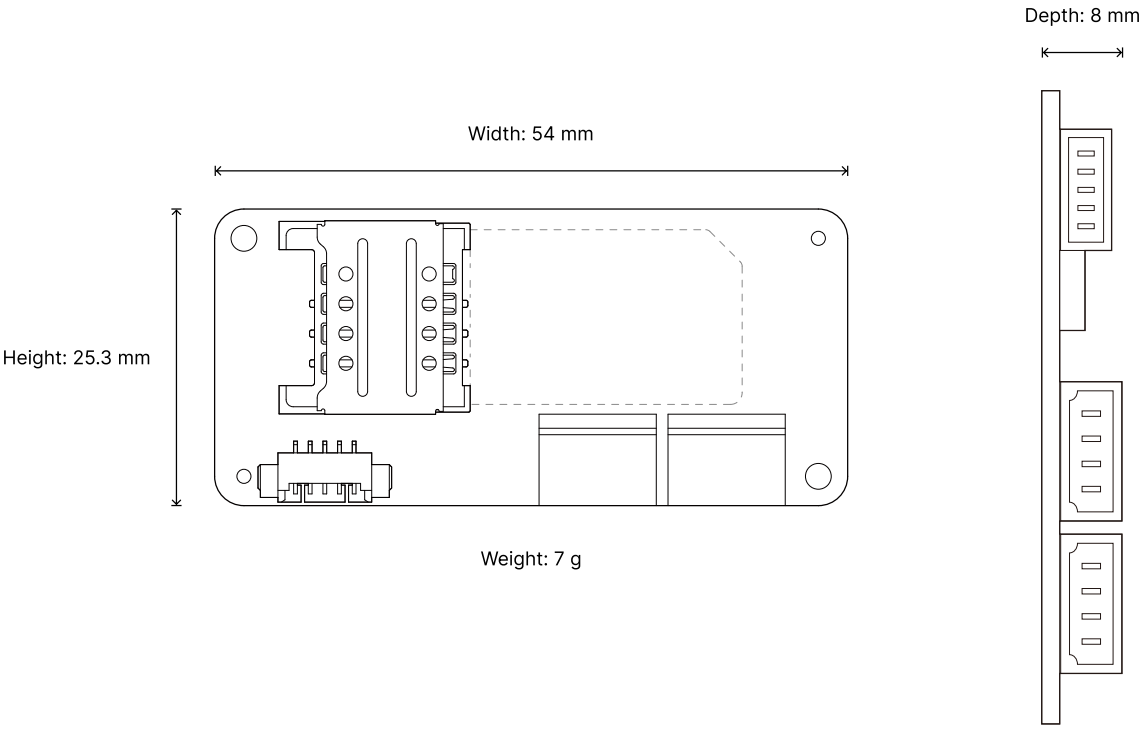
General

IP Rating	**IP65**

Interface

RS-485	**1 ch**
RS-232C	**1 ch**

Dimensions and Weight



Info

Product specifications are subject to change without notice for performance improvement.

Appendices

Includes legal notices contained in the product.

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