

# suprema BioStation 2a Fingerprint Device Installation Guide

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suprema BioStation 2a Fingerprint Device



### **Product Information**

# **Product Specifications**

• Model: BioStation 2a

• Installation Guide Version: 1.00 English

• EN 101.00.BS2A V1.00

#### Introduction

The BioStation 2a is a high-end biometric access control and time attendance terminal. It provides secure and convenient authentication using fingerprint recognition technology.

# Components

The BioStation 2a consists of the following components:

- · Fingerprint scanner
- · Display screen
- · Control buttons
- · Power supply port
- Network port
- TCP/IP input port
- · Relay output port
- · Fail Safe Lock connection port
- Fail Secure Lock connection port
- Automatic door connection port
- Secure I/O 2 connection port
- · Wiegand connection port

### Installation

# Fixing the Bracket and the Product

- 1. Select a suitable location for installation.
- 2. Fix the provided bracket securely to the wall or surface.
- 3. Attach the BioStation 2a to the bracket using the provided screws.

### **Power Supply Connection**

- 1. Connect the power supply adapter to the power supply port on the BioStation 2a.
- 2. Plug the power supply adapter into a standard electrical socket.

#### **Network Connection**

- 1. Connect an Ethernet cable to the network port on the BioStation 2a.
- 2. Connect the other end of the Ethernet cable to your local network router or switch.

### **TCP/IP Input Connection**

If you are using a TCP/IP input device, follow these steps:

- 1. Connect the TCP/IP input device to the TCP/IP input port on the BioStation 2a.
- 2. Configure the TCP/IP input device according to its user manual.

#### **Relay Connection**

If you are using a relay device, follow these steps:

- 1. Connect the relay device to the relay output port on the BioStation 2a.
- 2. Configure the relay device according to its user manual.

#### **Fail Safe Lock Connection**

If you are using a fail-safe lock, follow these steps:

- 1. Connect the fail-safe lock to the fail-safe lock connection port on the BioStation 2a.
- 2. Configure the fail-safe lock according to its user manual.

# **Fail Secure Lock Connection**

If you are using a fail-secure lock, follow these steps:

- 1. Connect the fail-secure lock to the fail-secure lock connection port on the BioStation 2a.
- 2. Configure the fail-secure lock according to its user manual.

#### **Automatic Door Connection**

If you are connecting the BioStation 2a to an automatic door, follow these steps:

- 1. Connect the automatic door system to the automatic door connection port on the BioStation 2a.
- 2. Configure the automatic door system according to its user manual.

### **Connecting as a Standalone Device**

If you are using the BioStation 2a as a standalone device, follow these steps:

- 1. Connect the power supply adapter to the power supply port on the BioStation 2a.
- 2. Plug the power supply adapter into a standard electrical socket.
- 3. Follow the on-screen instructions to set up the device.

#### Connecting to Secure I/O 2

If you are connecting the BioStation 2a to a Secure I/O 2 device, follow these steps:

- 1. Connect the Secure I/O 2 device to the Secure I/O 2 connection port on the BioStation 2a.
- 2. Configure the Secure I/O 2 device according to its user manual.

# **Wiegand Connection**

If you are using a Wiegand device, follow these steps:

- 1. Connect the Wiegand device to the Wiegand connection port on the BioStation 2a.
- 2. Configure the Wiegand device according to its user manual.

# **FAQ (Frequently Asked Questions)**

Can I install the BioStation 2a in direct sunlight?

No, it is not recommended to install the product in direct sunlight or UV light as it may affect its performance and durability.

Can I use a power supply adapter other than the one provided?

It is highly recommended to use the power adapter sold by Suprema as it is designed to support the higher power consumption of the BioStation 2a.

• Can I connect the power supply and Power over Ethernet (PoE) simultaneously?

No, it is not recommended to connect and use the power supply and PoE simultaneously to prevent any potential damage to the device.

Can I install multiple BioStation 2a devices close to each other?

It is recommended to keep a minimum distance between multiple devices during installation to prevent interference and ensure optimal performance.

Can I use damaged power supply adapters or plugs?

No, it is important to use undamaged power supply adapters, plugs, and electrical sockets to ensure safe and reliable operation of the BioStation 2a.

# 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.

#### Instructional icons

- Warning: This symbol indicates situations that could result in death or severe injury.
- Caution: This symbol indicates situations that may result in moderate injury or property damage.
- Note: This symbol indicates notes or additional information.

#### Warning

#### Installation

- Do not install or repair the product arbitrarily.
  - This may result in electric shock, fire, or product damage.
  - Damages caused by any modifications or failure to follow installation instructions can void your manufacturer's warranty.
- Do not install the product in a place with direct sunlight, moisture, dust, soot, or a gas leak.
   This may result in electric shock or fire.
- Install the product in a well-ventilated and cool place away from direct sunlight to prevent overheating when installing it outside.
- Do not place the product inside the sealed enclosure when installing it outside.
   It increases the internal temperature of the enclosure and this may result in electric shock, fire, or malfunction.
- Do not install the product in a location with heat from an electric heater.

This may result in fire due to overheating.

Install the product in a dry location.

Humidity and liquids may result in electric shock or product damage.

Do not install the product in a location where it will be affected by radio frequencies.

This may result in fire or product damage.

### Operation

· Keep the product dry.

Humidity and liquids may result in electric shock, fire, or product damage.

Do not use damaged power supply adapters, plugs, or loose electrical sockets.

Unsecured connections may cause electric shock or fire.

Do not bend or damage the power cord.

This may result in electric shock or fire.

### Caution

#### Installation

Do not install the product under direct sunlight or UV light.

This may result in product damage, malfunction, discoloration, or deformation.

Do not install the power supply cable in a location where people pass by.

This may result in injury or product damage.

 Do not install the product near magnetic objects, such as a magnet, TV, monitor (especially CRT), or speaker.

The product may malfunction.

Keep the minimum distance between products when installing multiple products.

The product may be affected by radio frequencies emitted by other products and the product may malfunction.

- Use the IEC/EN 62368-1 approved power adapter that supports higher power consumption than the product. It is highly recommended to use the power adapter sold by Suprema.
  - If the right power supply is not used, the product may malfunction.

- Refer to the Power in the product specifications for maximum current consumption specifications.
- Use a separate power supply for the Secure I/O 2, electric lock, and the product.
   If connecting and using the same power supply, the product may malfunction.
- Do not connect and use the power supply and Power over Ethernet (PoE) simultaneously.
   The product may malfunction.
- Make sure that the cable cover is completely closed after connecting it to the product to maintain the
  waterresistant and dust-resistant features (IP65 rating). It is recommended to use the enclosure if the
  product is installed outside.

The product may malfunction if the water-resistant and dust-resistant features are damaged.

#### Operation

• Do not drop the product or cause impacts to the product.

The product may malfunction.

• Do not disconnect the power supply while upgrading the firmware of the product.

The product may malfunction.

Do not disclose the password to others and change it regularly.

This may result in illegal intrusion.

Do not press buttons on the product by force or do not press them with a sharp tool.

The product may malfunction.

 Do not store your product in very hot or very cold places. It is recommended to use your product at temperatures from -20 °C to 60 °C.

The product may malfunction.

- When cleaning the product, mind the following.
  - Wipe the product with a clean and dry towel.
  - If you need to sanitize the product, moisten the cloth or the wipe with a proper amount of rubbing alcohol and gently clean all exposed surfaces including fingerprint sensor. Use rubbing alcohol (containing 70% Isopropyl alcohol) and a clean, non-abrasive cloth like lens wipe.
  - Do not apply liquid directly to the surface of the product.
- BioStation 2a uses the capacitive button. If there is much moisture (humidity) like a rainy weather or on the product, wipe with a soft and dry cloth.
- Do not use the product for anything other than its intended use.

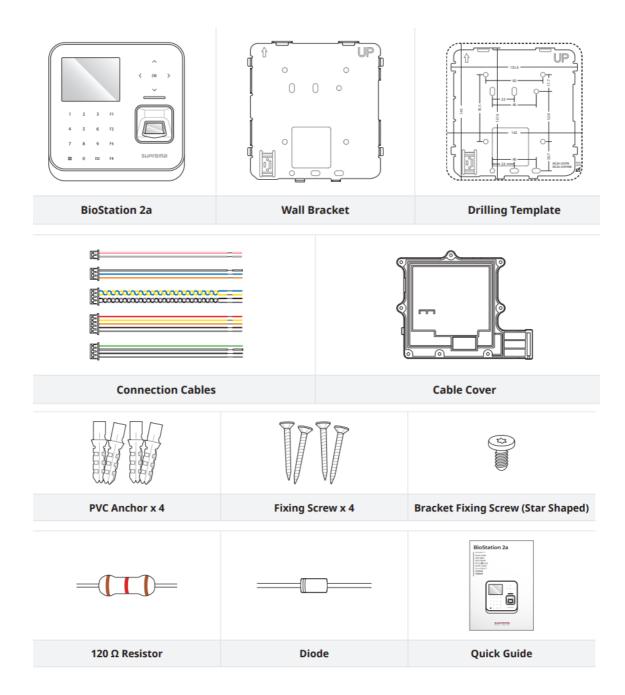
The product may malfunction.

### **RTC Battery**

Use of an unapproved or incorrect type of battery may result in a risk of explosion. Discard the battery according to the appropriate regional or international waste regulations.

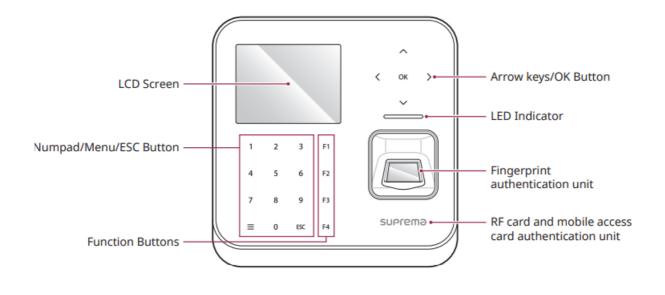
#### Introduction

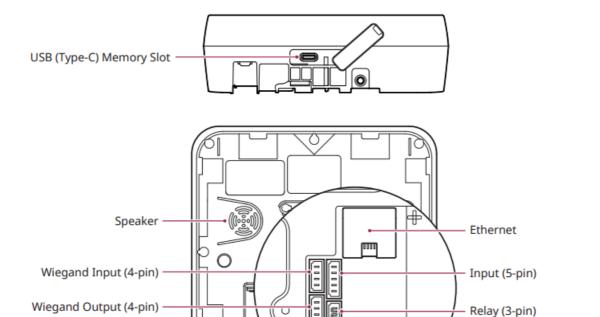
#### Components



- · Components may vary according to the installation environment.
- 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.
- For more details regarding the product, visit the Suprema website (https://www.supremainc.com) and refer to the user guide.

# Name and function of each part





USB Expansion Port (5-pin)

Power Supply (2-pin)

• LCD Screen Displays various information or settings.

RS-485 (4-pin)

- Numpad/Menu/ESC Button
  - 1 to 9: Enters numbers/characters or selects a menu item.
  - $\equiv$ : Opens the menu.
  - ESC: Moves back to the previous screen, or cancels input.
- Function Buttons Serves as T&A function key or selects a sub-menu item.
- Arrow keys/OK Button

  - Change the character type, or select T&A event to authenticate.
  - In the state of th
  - : Insert symbols, configure an item, or select Job code.
  - **OK:** Select items, save settings, or activate the key menu.

#### LED Indicator

Indicates the operational status of the device with the color of the LED.

- Green: Authentication success.
- Red: Authentication failure.
- Blue: Normal operation.
- Blue/Green blinking:
  - Fails to receive an IP address when DHCP is enabled.
  - Disconnection with the master device when in Slave mode.
- Red/Purple blinking: Device is locked.
- Yellow blinking: Waiting for an input.
- Fingerprint authentication unit Part to scan the fingerprint for entrance.
- RF card and mobile access card authentication unit Part to scan a RFID card or mobile access card for entrance.
- USB (Type-C) Memory Slot Connects the USB memory.
- Speaker Delivers sound.
- Wiegand Input (4-pin) Connect the Wiegand Input cable.
- Wiegand Output (4-pin) Connect the Wiegand Output cable.
- RS-485 (4-pin) Connect the RS-485 cable.
- Ethernet Connects the Ethernet cable.
- Input (5-pin) Connect the Input cable.
- Relay (3-pin) Connects the relay cable.
- USB Expansion Port (5-pin) Connect other accessory products.
- Power Supply (2-pin) Connects the power supply cable.

### **Cables and connectors**

# **Power supply**



| PIN | Name     | Color                |
|-----|----------|----------------------|
| 1   | PWR +VDC | RED (White stripe)   |
| 2   | PWR GND  | Black (White stripe) |

# Relay



| PIN | Name    | Color  |
|-----|---------|--------|
| 1   | RLY NO  | White  |
| 2   | RLY COM | Blue   |
| 3   | RLY NC  | Orange |

# **RS-485**



| PIN | Name     | Color  |
|-----|----------|--------|
| 1   | 485 TRXP | Blue   |
| 2   | 485 TRXN | Yellow |
| 3   | 485 GND  | Black  |
| 4   | SH GND   | Gray   |

# Input



| PIN | Name Color |        |
|-----|------------|--------|
| 1   | INPUT0     | Red    |
| 2   | INPUT1     | Yellow |
| 3   | INPUT2     | Orange |
| 4   | INPUT GND  | Black  |
| 5   | SH GND     | Gray   |

# **Wiegand Input**



| PIN | Name   | Color |
|-----|--------|-------|
| 1   | WG D0  | Green |
| 2   | WG D1  | White |
| 3   | WG GND | Black |
| 4   | SH GND | Gray  |

# **Wiegand Output**



| PIN | Name   | Color |
|-----|--------|-------|
| 1   | WG D0  | Green |
| 2   | WG D1  | White |
| 3   | WG GND | Black |
| 4   | SH GND | Gray  |

# How to enroll a fingerprint

In order to improve the fingerprint authentication rate, register the fingerprint correctly. BioStation 2a can recognize a fingerprint even if the angle and position of a user's fingerprint input change. If you register the fingerprint with attention to the following matters, the authentication rate can be improved.

# Selecting a finger for fingerprint input

- In preparation for the case that the fingerprint of a specific finger cannot be used, for example if the user is lifting a load with one hand or a finger gets hurt, up to 10 fingerprints for each user can be registered.
- In the case of a user whose fingerprint cannot be recognized well, the authentication rate can be improved by enrolling the same finger twice repeatedly.
- If a finger has a cut or the fingerprint is blurry, select another finger for the fingerprint.
- It is recommended to use the index finger or the middle finger when scanning the fingerprint. The authentication rate can be reduced if it is difficult to place another finger at the center of fingerprint sensor accurately.



### Fingerprint enroll method

1. When a message saying "Scan 1st finger" is displayed on the LCD screen for enrolling the fingerprint, place the finger with the fingerprint you wish to enroll on the fingerprint authentication unit and press the finger gently for better authentication.



2. When the re-input screen is displayed after a beep sound, scan the fingerprint of the enrolled finger again. (scan the fingerprint of a finger to be enrolled twice)

#### Cautions for enrolling a fingerprint

When a fingerprint is recognized, it is compared with the initially registered fingerprint, so the initial fingerprint enroll is the most important. Pay attention to the following matters when enrolling the fingerprint.

- Place the finger deep enough to contact with the sensor completely.
- Place the center of the fingerprint in the center of the sensor.
- If a finger has a cut or the fingerprint is blurry, select another finger for the fingerprint.
- Scan the fingerprint correctly without moving according to the instruction on the screen.
- If you make the finger upright so that the contact area with the sensor is decreased or the angle of finger is warped, fingerprint authentication may not be performed.



### When the fingerprint recognition fails

• BioStation 2a can recognize a fingerprint regardless of a change in season or finger condition. However, the

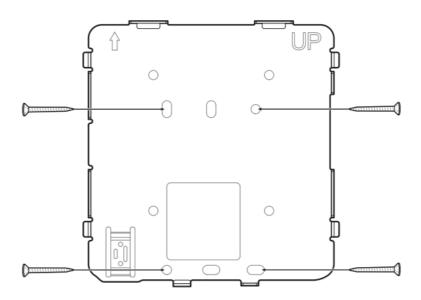
authentication rate may vary according to the external environment or fingerprint input method.

- If the fingerprint authentication cannot be done smoothly, it is recommended to take the following measures.
  - If the finger is smeared with water or sweat, dry off the finger and then scan the finger.
  - If the finger is too dry, blow your breath on the fingertips and then scan the finger.
  - If the finger has a cut, register the fingerprint of another finger.
  - The initially enrolled fingerprint often may have not been scanned correctly, so enroll the fingerprint again according to 'Cautions for enrolling a fingerprint'.

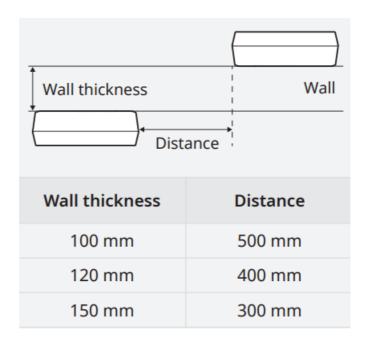
# Installation

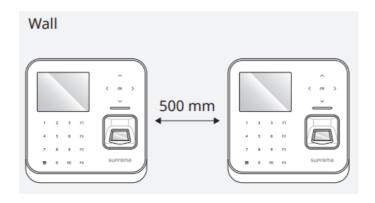
### Fixing the bracket and the product

1. Determine the correct position to install the bracket using the provided drilling template. Fix the bracket firmly using fixing screws through the bracket to the position where BioStation 2a will be installed.

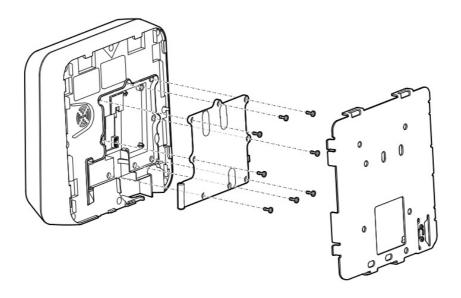


- If installing BioStation 2a on a concrete wall, drill holes, insert PVC anchors, and fix them with fixing screws.
- To avoid RF interference, a minimum separation distance must be maintained.



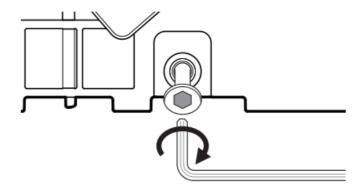


- When using a mobile access card, install devices maintaining a minimum distance of 1 m between devices to avoid RF interference.
- 2. Assemble the cable cover with the BioStation 2a and then attach the device onto the mounted bracket.



Make sure that the cable cover is completely closed after connecting it to the product to maintain the waterresistant and dust-resistant features (IP65 rating).

3. Assemble BioStation 2a with the bracket by rotating the product fixing screw.



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.

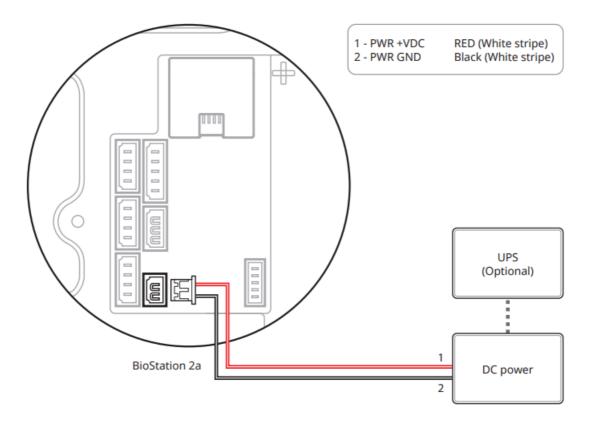
# Power supply connection

• Use the IEC/EN 62368-1 approved power adapter that supports higher power consumption than the product. If

you wish to connect and use another device to the power supply adapter, you should use an adapter with a current capacity which is the same or larger than the total power consumption required for the terminal and another device.

Refer to the Power in the product specifications for maximum current consumption specifications.

- DO NOT extend the length of power cable when using the power adapter.
- Use a separate power supply for Secure I/O 2, the electric lock, and the product respectively. If connecting and using the power supply to these devices together, the devices may malfunction.
- DO NOT connect the device to the DC power supply (or adapter) and PoE power supply at the same time.

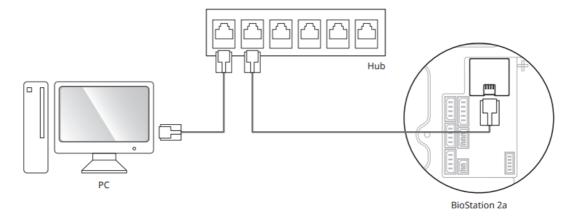


#### **Network connection**

# TCP/IP

# • LAN connection (connecting to a hub)

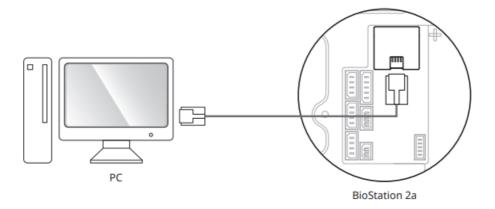
You can connect the product to a hub using a general type CAT-5 cable.



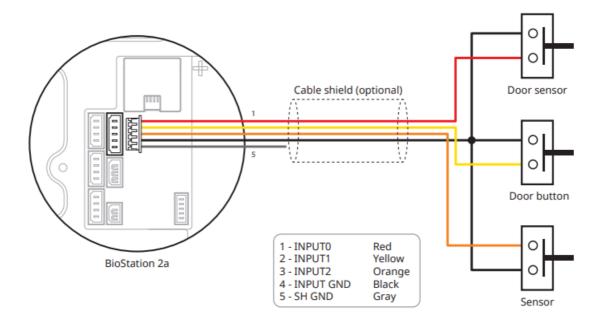
# • LAN connection (connecting to a PC directly)

BioStation 2a has an automatic MDI/MDIX function so that it can be connected to a PC directly using a normal

straight type CAT-5 cable or a cross cable.



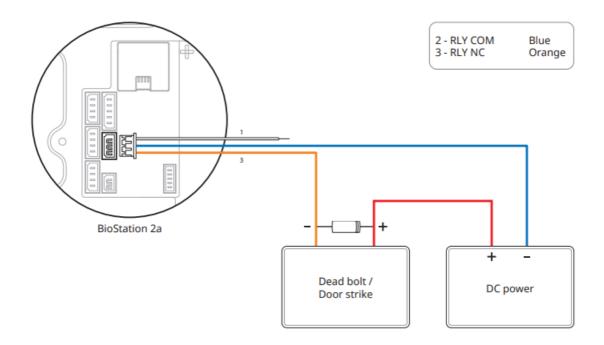
# **Input Connection**



# **Relay connection**

### Fail Safe Lock

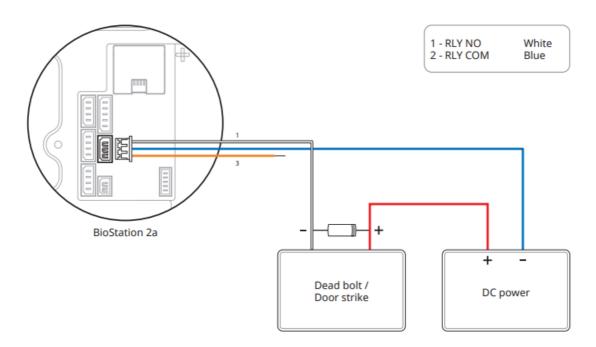
In order to use the Fail Safe Lock, connect N/C relay as shown in the figure below. There is normally a current flowing through the relay for the Fail Safe Lock. When the relay is activated, blocking the current flow, the door will open. If the power supply to the product is cut off due to a power failure or an external factor, the door will open.



- Install a diode at both sides of the door lock wire as shown in the figure to protect the relay from the reverse current, which occurs when the door lock operates.
- Use a separate power supply for BioStation 2a and the door lock.
- Suprema's standalone intelligent readers contain internal relays that can directly lock/unlock doors without
  external controllers for added convenience. For access control applications in need of security, however, it is
  NOT recommended to use the internal relay of a reader to prevent any tampering attacks which can potentially
  trigger the door unlock. For such applications, it is highly recommended to use a separate relay unit for a lock
  control such as Suprema's Secure I/O 2, DM-20 or CoreStation installed at a secure side of a door.
- Take caution of the installation direction of the diode. Install the diode close to the door lock.

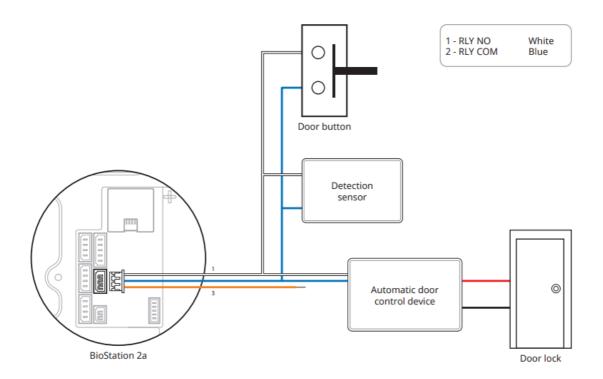
### **Fail Secure Lock**

In order to use the Fail Secure Lock, connect N/O relay as shown in the figure below There is normally no current flowing through the relay for the Fail Secure Lock. When the current flow is activated by the relay, the door will open. If the power supply to the product is cut off due to a power failure or an external factor, the door will lock.



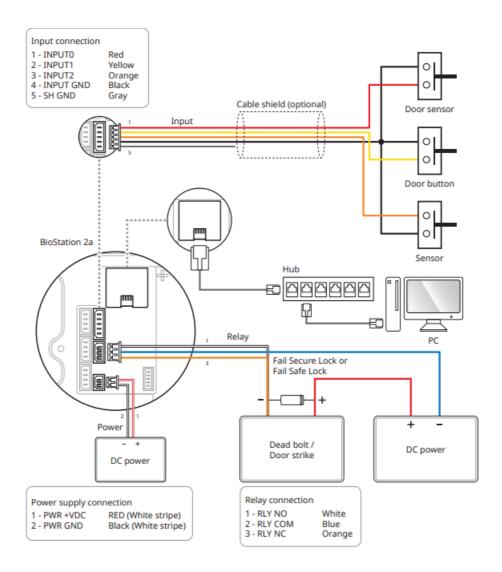
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  control such as Suprema's Secure I/O 2, DM-20 or CoreStation installed at a secure side of a door.
- Take caution of the installation direction of the diode. Install the diode close to the door lock.

#### **Automatic door connection**



### Connecting as a standalone

BioStation 2a can be connected to the door lock, door button, and door sensor directly without connecting a separate I/O device.



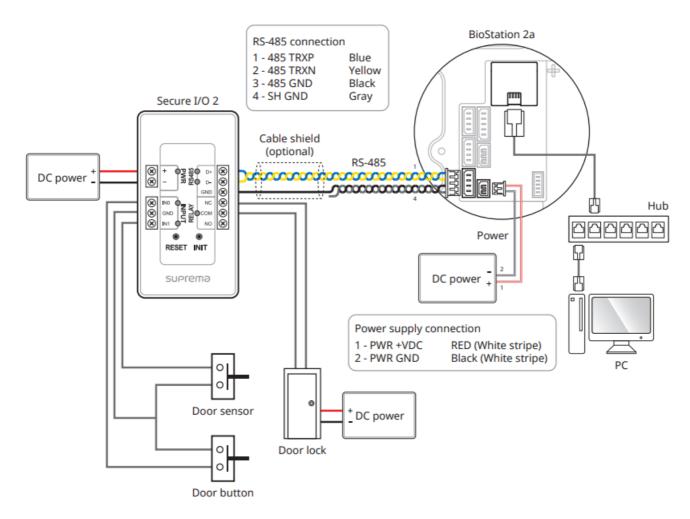
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- BioStation 2a can be used as a multi-door controller with the slave devices with the RS-485 cable. The slave
  devices are used as dummy readers and authentication is performed in the master device.
- If XPass or XPass 2 is connected to the master device, only card authentication can be used.
- The maximum number of slave devices available to connect varies according to the authentication method, number of users, and number of devices. Also note that the number of slave devices affects the fingerprint authentication speed.
- A master device can control 31 slave devices. The bandwidth of RS-485 allows for up to 7 fingerprint authentication devices to be connected.
- For more information, contact the Suprema technical support team (https://support.supremainc.com).

### Connecting to Secure I/O 2

Secure I/O 2 is an I/O device, can be connected to BioStation 2a with the RS-485 cable. Security can be maintained even if the connection between BioStation 2a and Secure I/O 2 has been lost or the power supply to BioStation 2a has been shut off due to external factors.

• Use an AWG24 twisted pair with less than 1.2 km in length for the RS-485 cable.

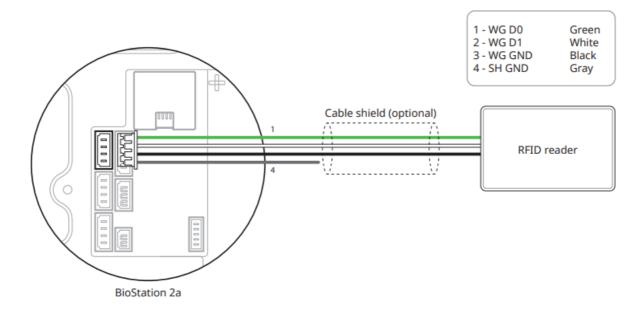
• If connecting with a RS-485 daisy chain, connect the termination resistor (120 Ω) to both ends of the daisy chain connection. If connected to the middle line, the signal level becomes smaller and the communication performance will deteriorate. Make sure to connect it to both ends of the daisy chain connection.



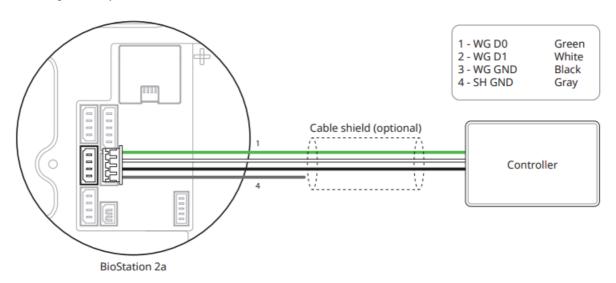
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### Wiegand connection

· Use as a Wiegand input device



• Use as a Wiegand output device



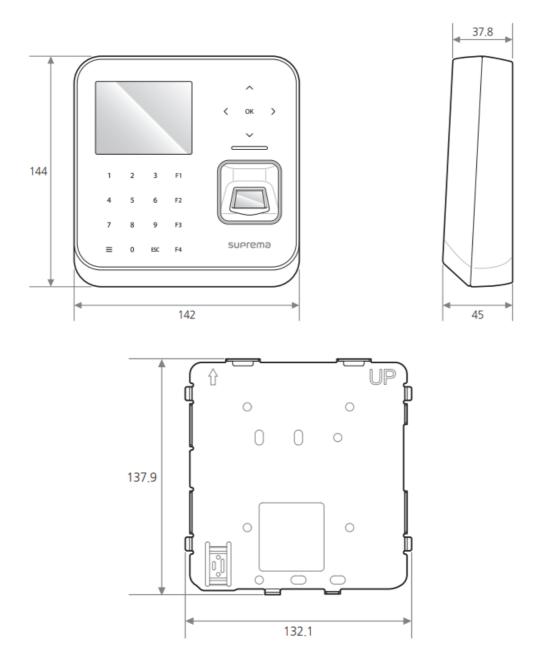
**Product specifications** 

| Category    | Feature                     | Specification  |
|-------------|-----------------------------|--|
|             | Biometric                   | Fingerprint  |
| Credential  | RF Option                   | <ul> <li>BS2A-ODPB: 125kHz EM &amp; 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3<sup>1)</sup>, FeliCa</li> <li>BS2A-OAPWB: 125kHz EM, HID Prox &amp; 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3<sup>1)</sup>, iCLASS SE/SR/Seos, FeliCa</li> </ul> |
|             | RF Read Range <sup>2)</sup> | EM/MIFARE/DESFire/HID iCLASS: 50 mm, HID Prox/FeliCa: 30 mm  |
|             | Mobile                      | NFC, BLE   |
|             | CPU                         | 1.5 GHz Quad Core  |
|             | Memory                      | 16 GB Flash + 2 GB RAM   |
|             | Crypto Chip                 | Supported  |
|             | LCD Type                    | 2.8" color TFT LCD   |
|             | LCD Resolution              | 320 x 240  |
|             | LED                         | Multi-color  |
|             | Sound                       | 16 bit   |
| General     | Operating Temperature       | -20 °C ~ 60 °C   |
|             | Storage Temperature         | -40 °C ~ 70 °C   |
|             | Operating Humidity          | 0 % ~ 80 %, non-condensing   |
|             | Storage Humidity            | 0 % ~ 90 %, non-condensing   |
|             | Dimension (W x H x D)       | 142 x 144 x 45 (Bottom) / 37.8 (Top) (mm)  |
|             | Weight                      | <ul> <li>Device: 429 g</li> <li>Bracket (Including washer and bolt): 142 g</li> </ul>  |
|             | IP Rating                   | IP65   |
|             | Certificates                | CE, UKCA, KC, FCC, RCM, SIG, RoHS, REACH, WEEE   |
|             | Image Dimension             | 272 x 320 pixels   |
|             | Image Bit Depth             | 8 bits, 256 gray scale   |
| Financiat   | Resolution                  | 500 dpi  |
| Fingerprint | Template                    | SUPREMA / ISO19794-2 / ANSI-378  |
|             | Extractor / Matcher         | MINEX certified and compliant  |
|             | Live Fingerprint Detection  | Supported (SW-based)   |
|             | Max. User                   | 500,0003)  |
|             | Max. Credential (1:N)       | Fingerprint: 100,000   |
| Capacity    | Max. Credential (1:1)       | <ul><li>Fingerprint: 500,000</li><li>Card: 500,000</li><li>PIN: 500,000</li></ul>  |
|             | Max. Text Log               | 5,000,000  |

|            |                                      | - PC2A ODDB: Not supported   |
|------------|--------------------------------------|--|
|            | Wi-Fi                                | <ul> <li>BS2A-ODPB: Not supported</li> <li>BS2A-OAPWB: Supported (802.11 b/ g/ n 2.4 GHz)</li> </ul> |
|            | Ethernet                             | Supported (10/100 Mbps, auto MDI/MDI-X)  |
|            | RS-485                               |  |
|            | 1.0                                  | 1 ch Master / Slave (Selectable)   |
|            | RS-485 Communication<br>Protocol     | OSDP V2 compliant  |
| Interface  | Wiegand                              | 1 ch Input, 1 ch Output  |
|            | Input                                | 3 ch Inputs  |
|            | Relay                                | 1 Relay  |
|            | USB                                  | USB 2.0 (Host)   |
|            | USB Expansion Port                   | Supported  |
|            | Tamper                               | Supported  |
|            |                                      | Voltage: 12 Vdc  |
|            |                                      | Current: Max. 0.8 A  |
|            | Power                                | Voltage: 24 Vdc  |
|            |                                      | Current: Max. 0.4 A  |
|            |                                      | PoE: Supported (IEEE 802.3af compliant)  |
|            | Switch Input VIH                     | • Min.: 3 V  |
|            | Switch input viri                    | • Max.: 5 V  |
| Electrical | Switch Input VIL                     | Max.: 1 V  |
|            | Switch Pull-up Resistance            | $4.7~k\Omega$ (The input pots are pulled up with $4.7~k\Omega$ .)                                    |
|            | Wiegand Output VOH                   | More than 4.8 V  |
|            | Wiegand Output VOL                   | Less than 0.2 V  |
|            | Wiegand Output Pull-up<br>Resistance | Internally pulled up with 1 $k\Omega$  |
|            | Relay                                | 2 A @ 30 VDC Resistive load<br>1 A @ 30 VDC Inductive load   |

- 1. DESFire EV2/EV3 cards are supported by having backward compatibility of DESFire EV1 cards. CSN and smart card functions are compatible with BioStation 2a.
- 2. RF read range will vary depending on installation environment.
- 3. The number of users registered without having any credential data.

# **Dimensions**



# FCC compliance information

- 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, and
  - 2. This device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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 Hereby, Suprema Inc. declares that this product is in compliance with the essential requirements and other relevant provisions of Radio Equipment Directive (RED) 2014/53/EU.

• NFC Frequency: 13.56 MHz

• RFID Frequency: 13.56 MHz + 125 kHz

- For more information, contact us at the following contact information.
- · Suprema Inc.

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<u>suprema BioStation 2a Fingerprint Device</u> [pdf] Installation Guide BioStation 2a Fingerprint Device, BioStation 2a, Fingerprint Device, Device

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