suprema

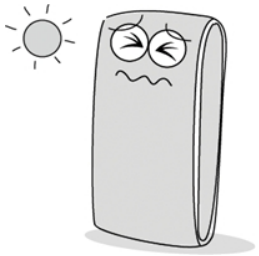
Xpass Slim

Ultra Slim IP Access Reader

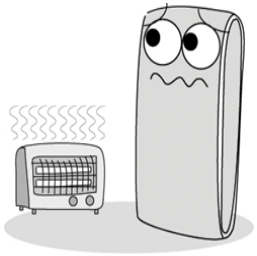
- Multi-smartcard reading
- TCP/IP, RS485 & Wiegand
- IP65 dust & water protection
- Gang box-sized, slim design

Contents

Safety precautions



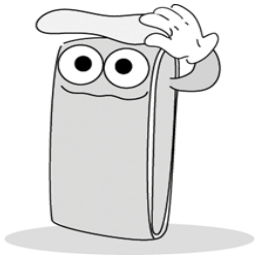
Do not install the device in a place subject to direct sun light, humidity, dust or soot.



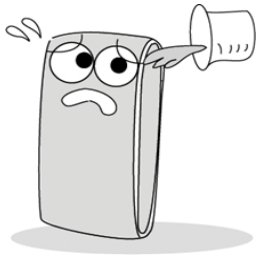
Do not place the device next to heating equipments.

Do not place a magnet near the product.

- It may cause a damage or a failure to the product.



In cleaning, do not splash water on the device but wipe it out with smooth cloth or towel.



Be careful not to let liquid like water, drinks or chemicals leak inside the device.

- It may cause a failure.

Clean the device often to remove dust on it.

The list below is to keep user's safety and prevent any loss. Please read safety precautions carefully before use.

Safety precautions

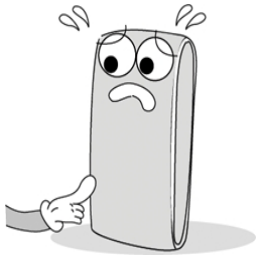
Do not drop the device.

Do not disassemble, repair or alter the device.

- The warranty does net apply to any product damage cause by an arbitrary installation or repair.

Do not let children touch the device without supervision.

Do not use the device for any other purpose than specified.



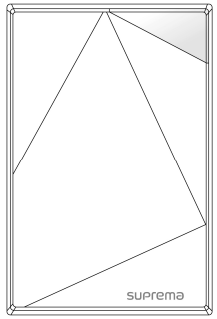
Do not damage the device.

Contact your nearest dealer in case of a trouble or problem.

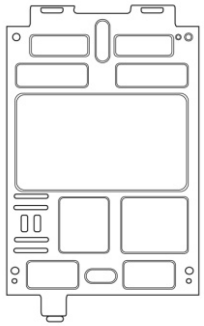
The list above is to keep user's safety and prevent any loss. Please read safety precautions carefully before use.

Product components

Basic components



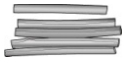
Xpass Slim



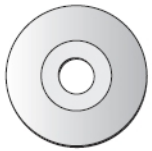
Bracket

Wall mounting screws
(2 ea)

Knife Blocks
(2 ea)



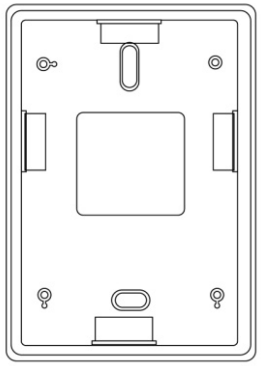
Shrinkable Tubes



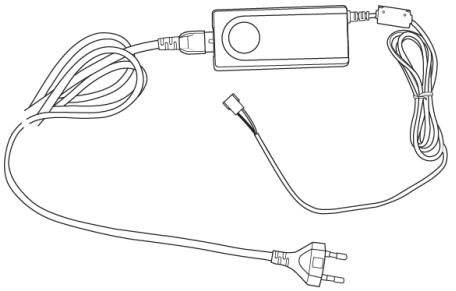
Software CD

The components shown above may differ depending on the installation environment.

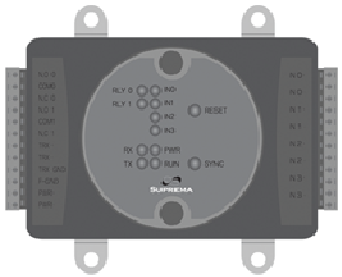
Optional accessories



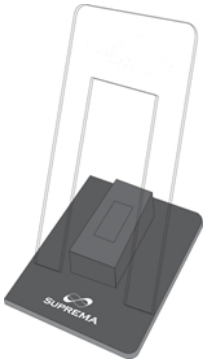
Extended Bracket



Adaptor

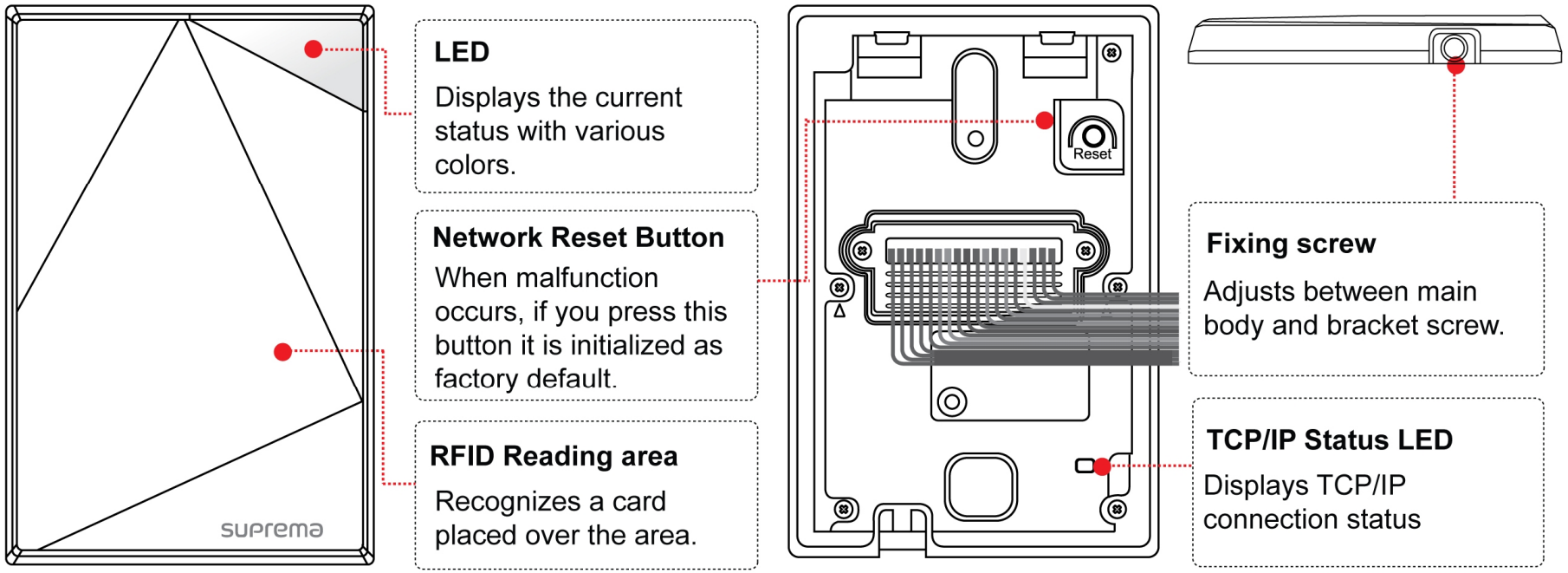


Secure I/O



Plastic stand

Names of each parts



LED

Displays the current status with various colors.

Network Reset Button

When malfunction occurs, if you press this button it is initialized as factory default.

RFID Reading area

Recognizes a card placed over the area.

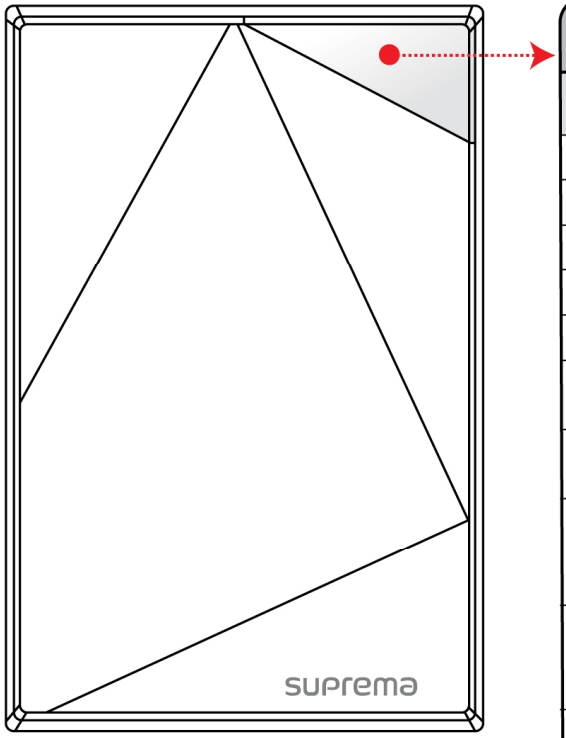
Fixing screw

Adjusts between main body and bracket screw.

TCP/IP Status LED

Displays TCP/IP connection status

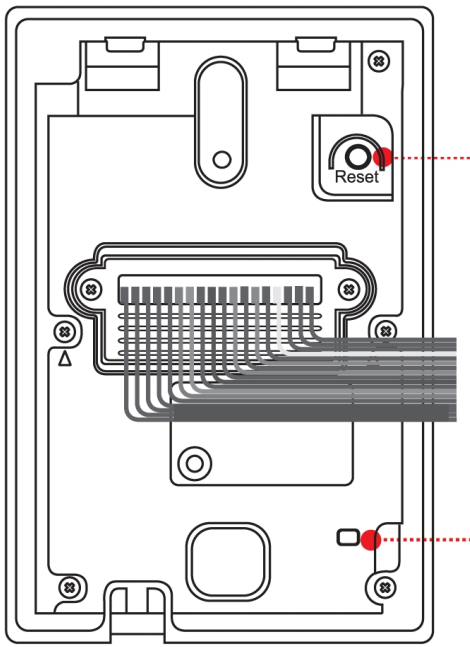
LED status



LED Status per Color		
Color	Sound	Description
Green	Beep Beep Beep	Authorization Success
Red	Be~ep	Authorization Fail
Pink	Beep!	On Processing
Flicker Blue/Sky-Blue Color per 2sec	No sound	Normal
Flicker Red/Pink Color per 2sec	No sound	Locked
Flicker Blue/Red Color per 2se	No sound	Initialized Time due to the Internal Battery Discharge
Flicker Blue /Yellow Color per 2sec	No sound	IP address is not assigned when terminal is set as 'Use' in the 'DHCP' of 'TCP/IP Setting'
For first operation, red LED is blinking by every 2 seconds.	No sound	Failed. Please contact to your distributor or Suprema
For normal operation, red LED is blinking by every 2 seconds.	No sound	Security status
Yellow LED is blinking shortly.	No sound	Terminal is send or received a packet to get IP address when terminal is set as 'Use' in the Idle status or 'TCP/IP Setting'

Initialization of network setting

When you install the Xpass Slim or forget the network setting's value of Xpass Slim in use, can initial the network setting's value (TCP/IP address, RS-485 setting) in the switch of Xpass Slim's back side as follows;



Initialzing the network setting

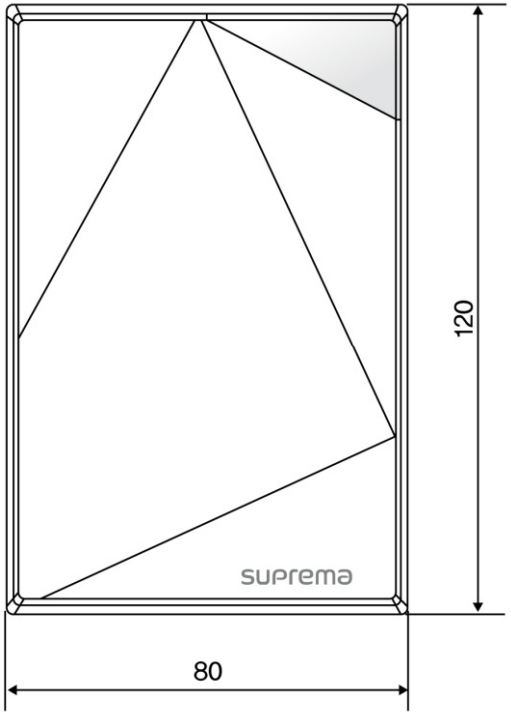
1. Press the "Reset" button located on the rear of the Xpass Slim for 3 seconds or more.
2. Use the BioStar Client (Ver. 1.52 or higher) to connect to the Xpass Slim using the default settings.
   Default Network Settings :
   - IP Address (Static): 192.168.0.1
   - Use Server: Disabled
   - RS-485: PC Connection, 115200bps
3. Enter the desired IP address or RS-485 settings and save the new settings.
4. Remove the Xpass Slim from the device list and reconnect to the device using the new network settings.

TCP/IP Status LED

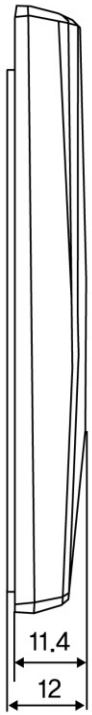
· Green LED blinks shortly : Displaying connection status by TCP/IP
· Red LED blinks shortly : Displaying data transfer status by TCP/IP

Product Dimension

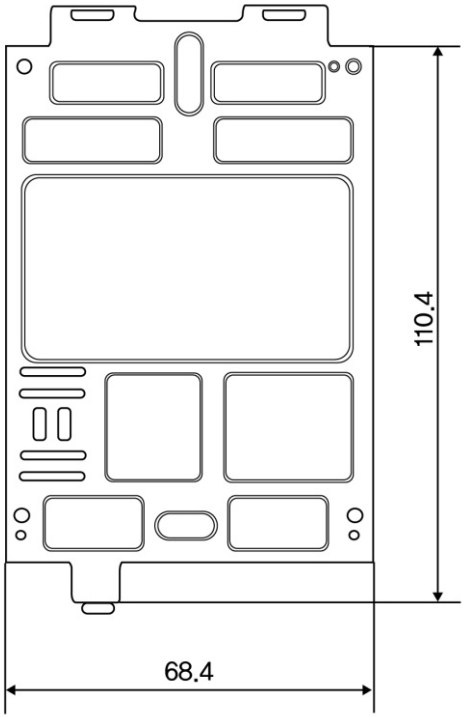
(unit : mm)



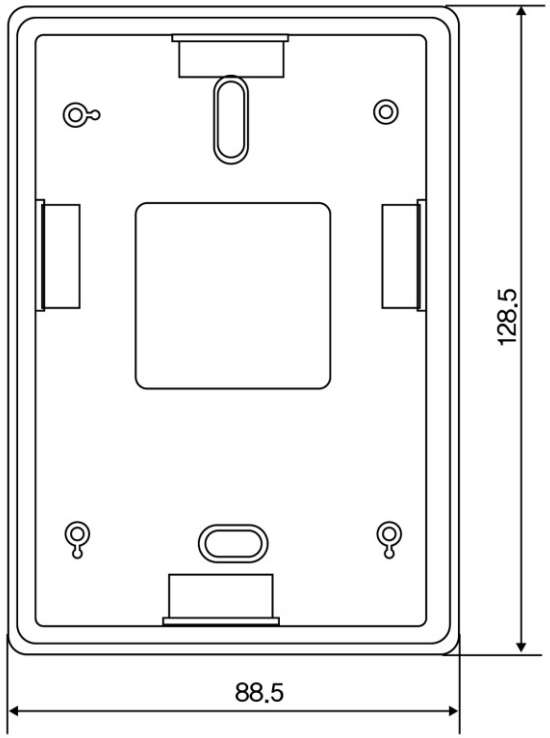
< Front View >



< Side View >

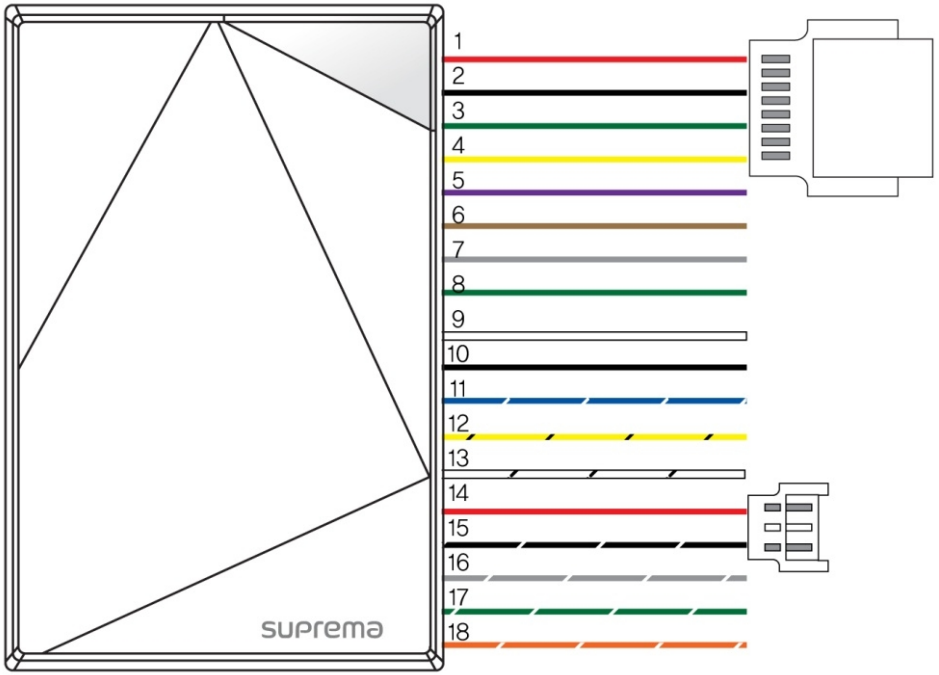


< Bracket >



< Extended bracket >

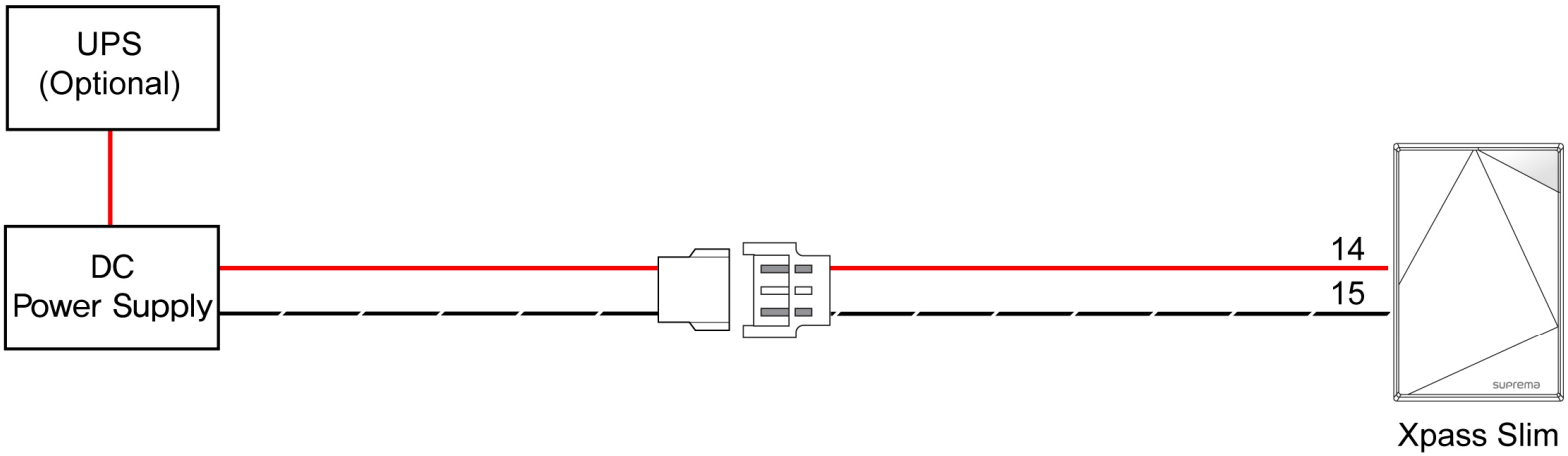
Cables and Connectors



Pin	Pin Name	Description	Color
1	ETH TXN	ETH TXN (LAN)	Red
2	ETH TXP	ETH TXP (LAN)	Black
3	ETH RXN	ETH RXN (LAN)	Green
4	ETH RXP	ETH RXP (LAN)	Yellow
5	SWIN 0	Switch Input 0	Purple
6	SWIN 1	Switch Input 1	Brown
7	SW GND	Switch GND	Gray
8	WGD D0	Wiegand Data 0	Green
9	WGD D1	Wiegand Data 1	white
10	WGD GND	Wiegand GND	Black
11	485 TRX+	485 TRX+	Blue(white string)
12	485 TRX-	485 TRX-	Yellow(black string)
13	485 GND	485 GND	White(black string)
14	PWR IN	Power IN	Red
15	PWR GND	Power GND	Black (white string)
16	RLY NO	Relay Normal Open	Gray(white string)
17	RLY COM	Relay Common	Green(white string)
18	RLY NC	Relay Normal Close	Orange(white string)

Power Connection

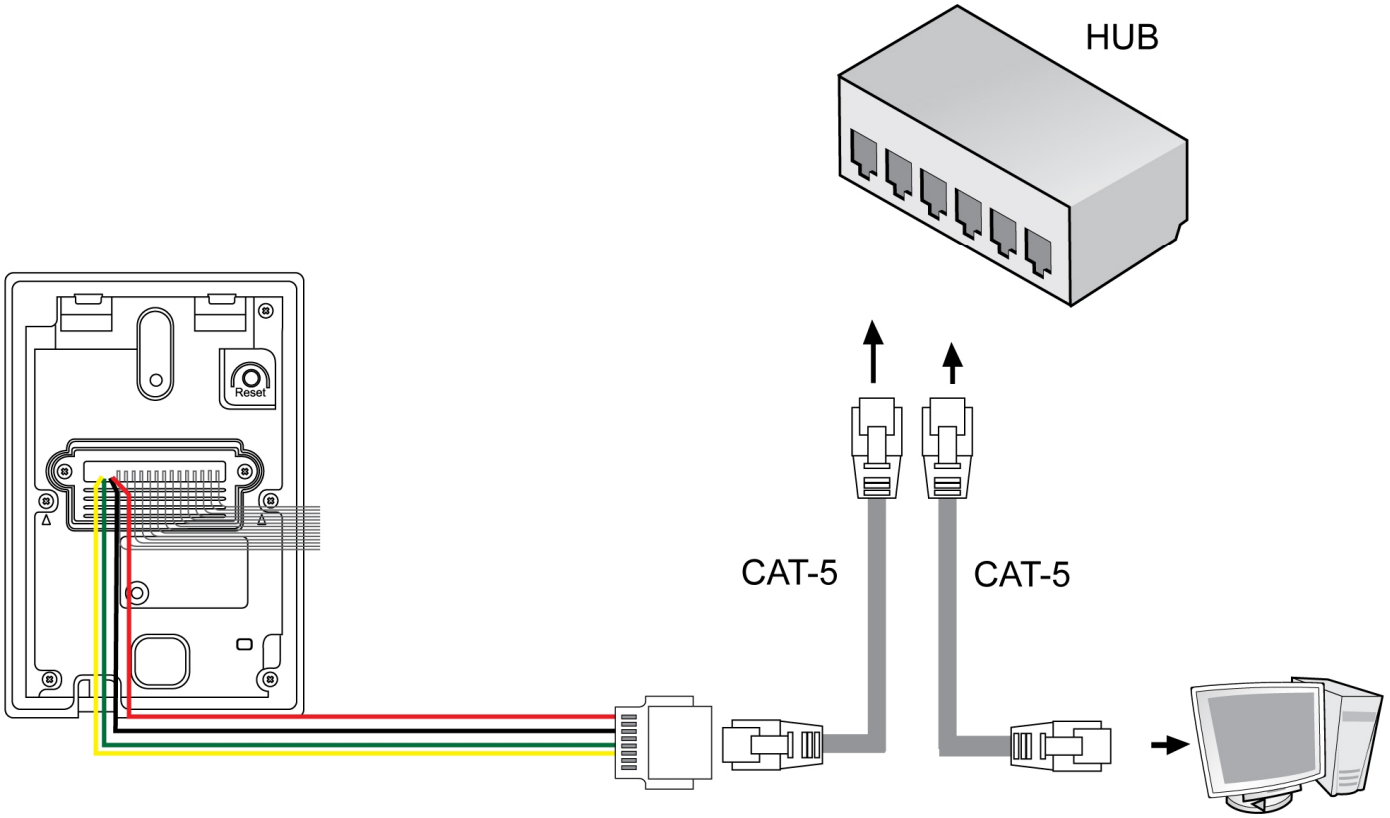
Pin	Pin Name	Color
14	PWR IN	Red
15	PWR GND	Black (white string)



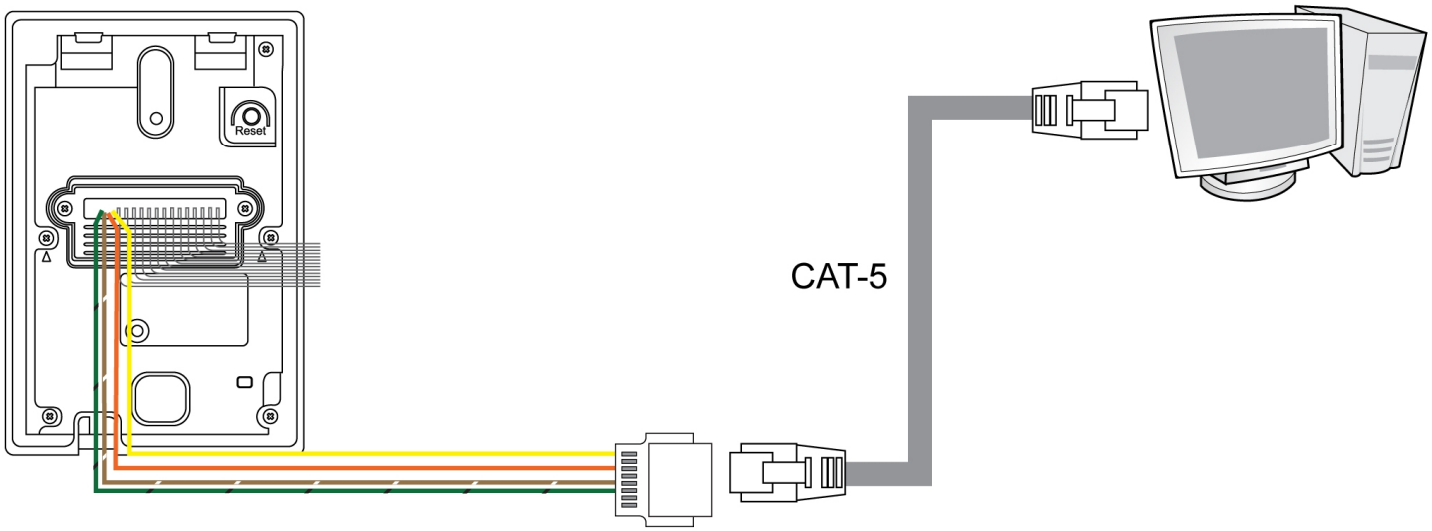
Recommended power supply

12V ± 10%, at least 500mA.
Comply with standard IEC/EN 60950-1.
To share the power with other devices, use a power supply with higher current ratings.

LAN Connection

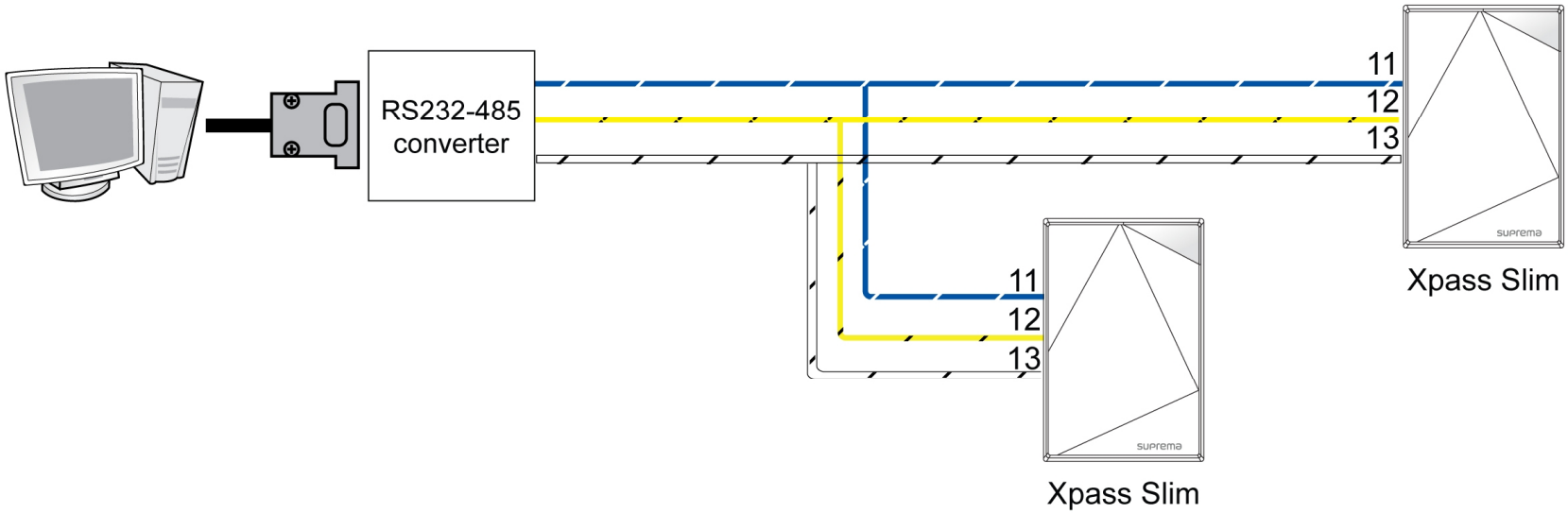


LAN Connection (Direct connection with PC)



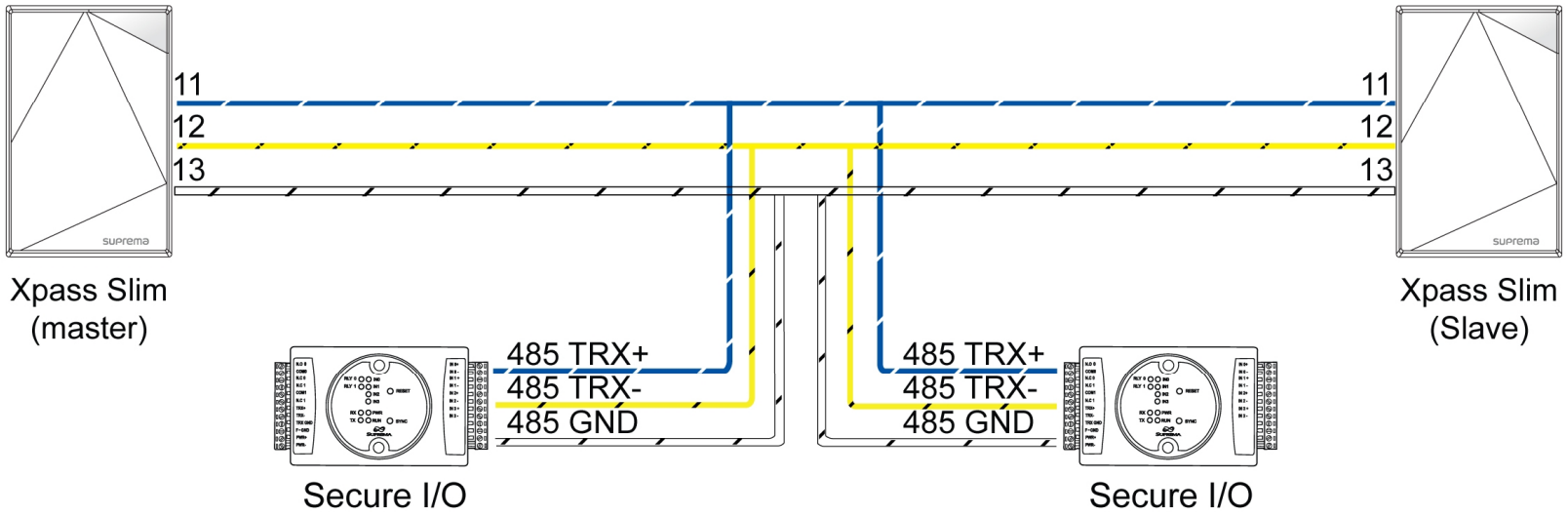
RS485 Connection for Host Communication

Pin	Pin Name	Color
11	485 TRX+	Blue (white string)
12	485 TRX-	Yellow (black string)
13	485 GND	White (black string)



RS485 Connection for Secure I/O

Pin	Pin Name	Color
11	485 TRX+	Blue (white string)
12	485 TRX-	Yellow (black string)
13	485 GND	White (black string)

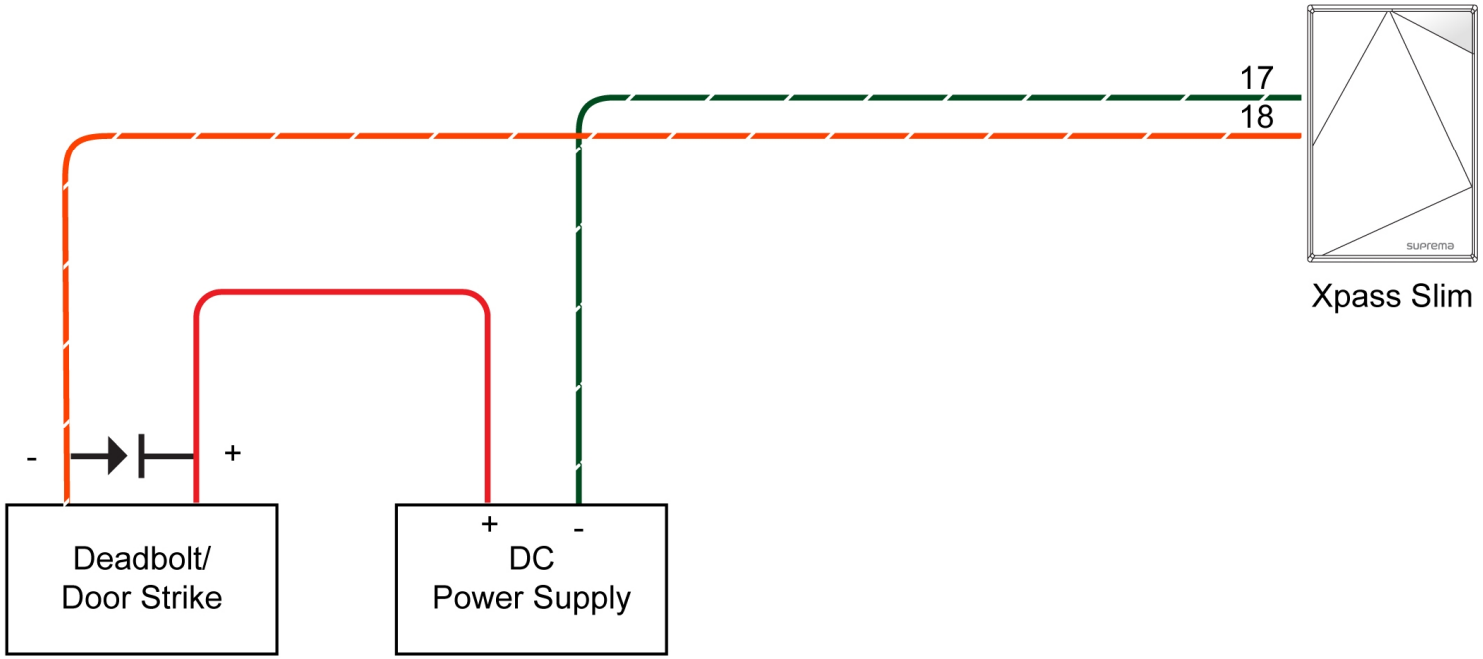


Max number of devices

Maximum eight(8) devices (including Master) interworks in an RS485 loop.

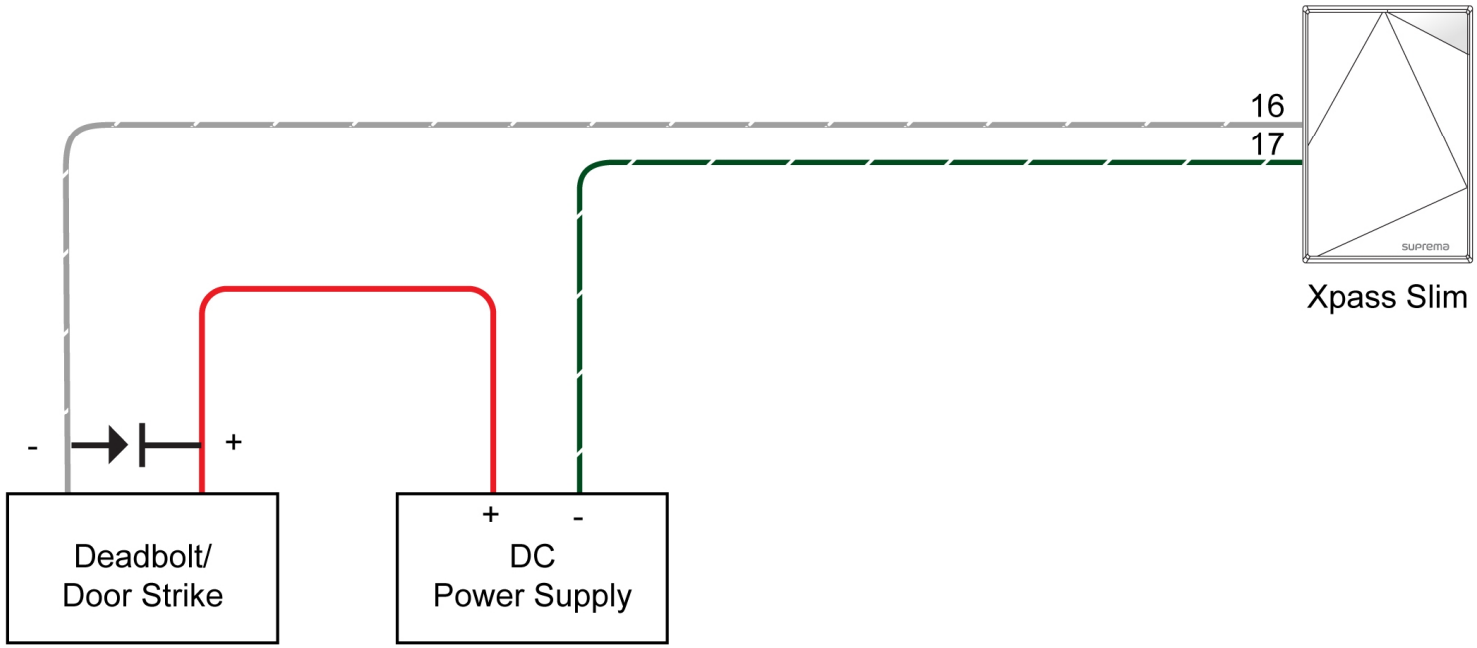
Relay Connection – Fail safe lock

Pin	Pin Name	Color
17	RLY COM	Green (white string)
18	RLY NC	Orange (black string)



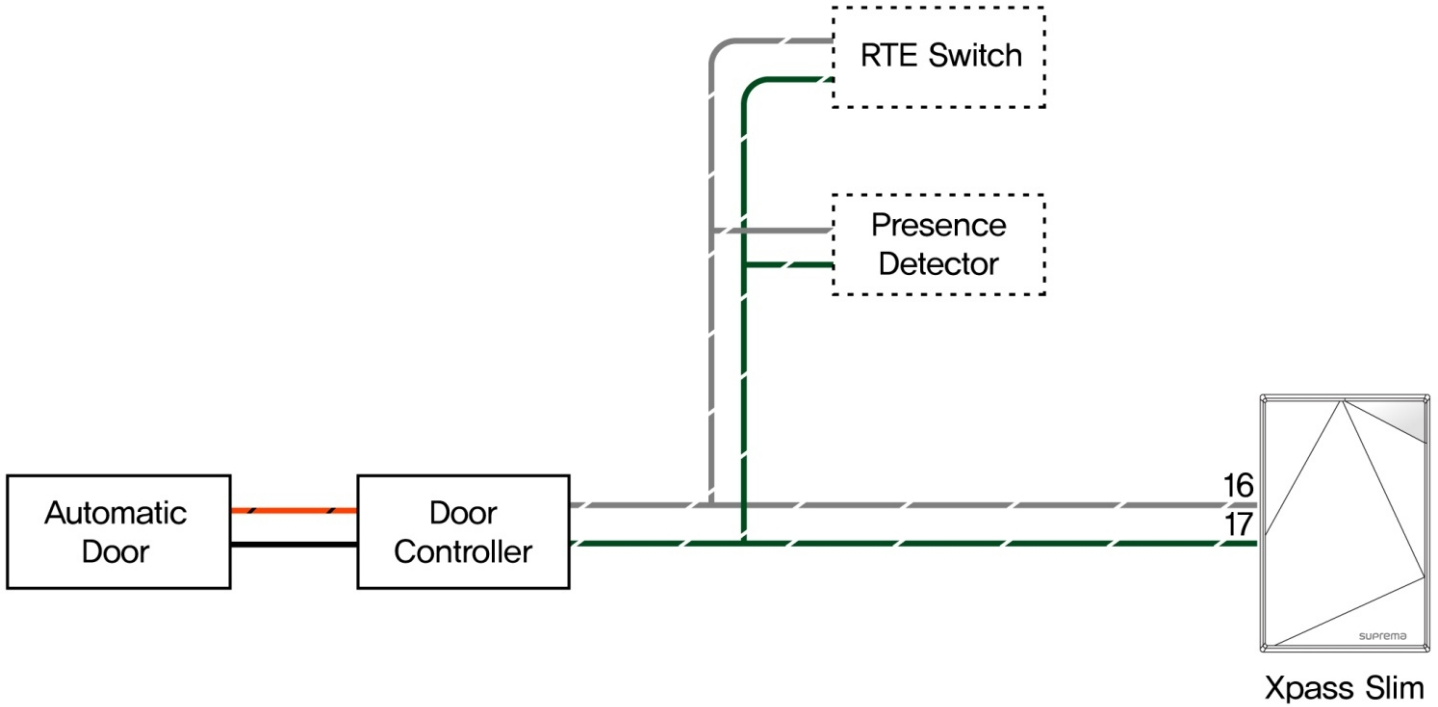
Relay Connection – Fail secure lock

Pin	Pin Name	Color
16	RLY NO	Gray (white string)
17	RLY COM	Green (white string)



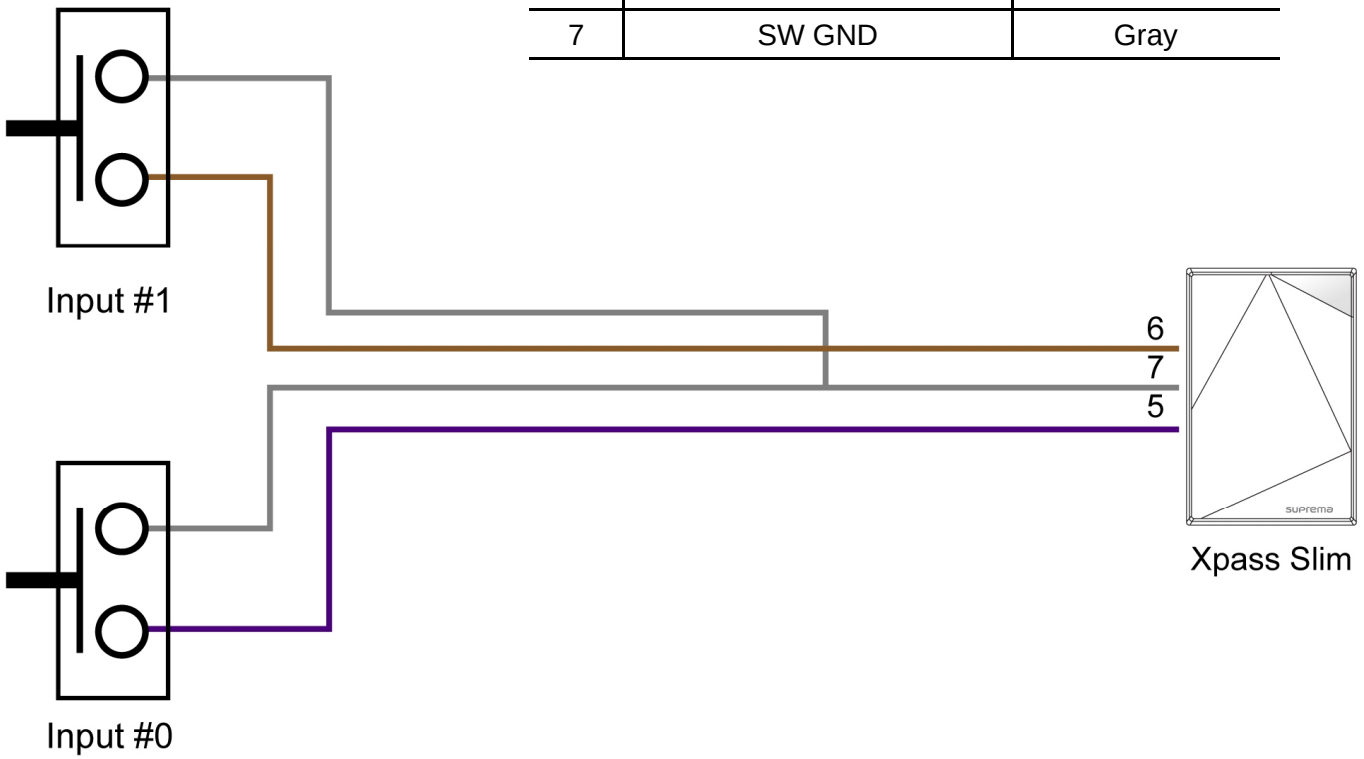
Relay Connection - Automatic door

Pin	Pin Name	Color
16	RLY NO	Gray (white string)
17	RLY COM	Green (white string)



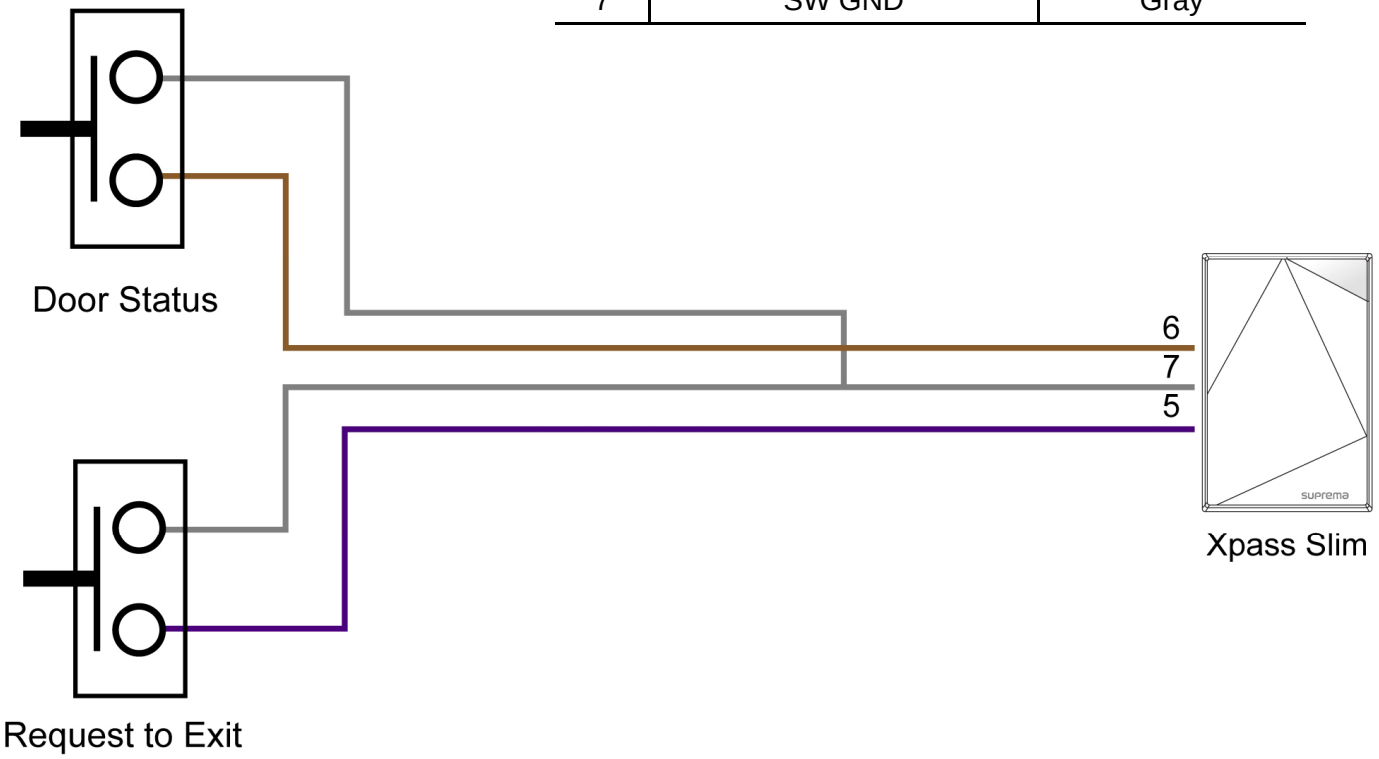
Digital Input Connection (Alarm, Emergency S/W)

Pin	Pin Name	Color
5	SWIN 0	Purple
6	SWIN 1	Brown
7	SW GND	Gray



Digital Input Connection (RTE, Door sensor)

Pin	Pin Name	Color
5	SWIN 0	Purple
6	SWIN 1	Brown
7	SW GND	Gray



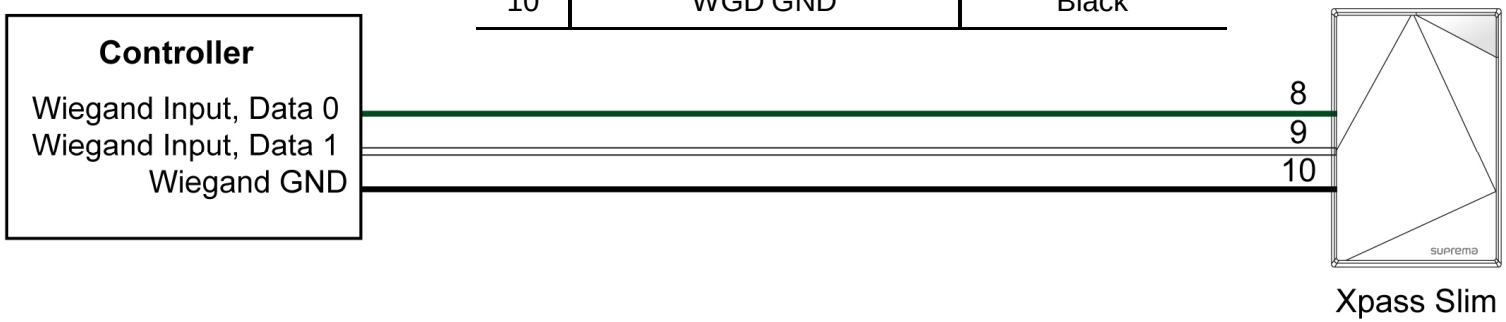
Wiegand Input/Output

Wiegand Input

Pin	Pin Name	Color
8	WGD D0	Green
9	WGD D1	White
10	WGD GND	Black

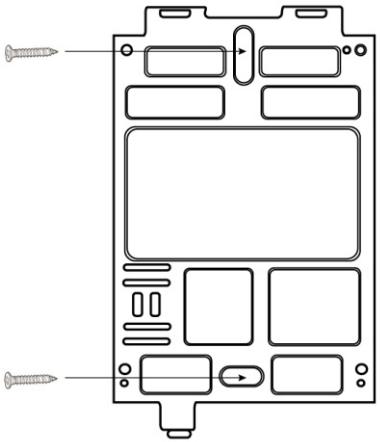
Wiegand Output

Pin	Pin Name	Color
8	WGD D0	Green
9	WGD D1	White
10	WGD GND	Black

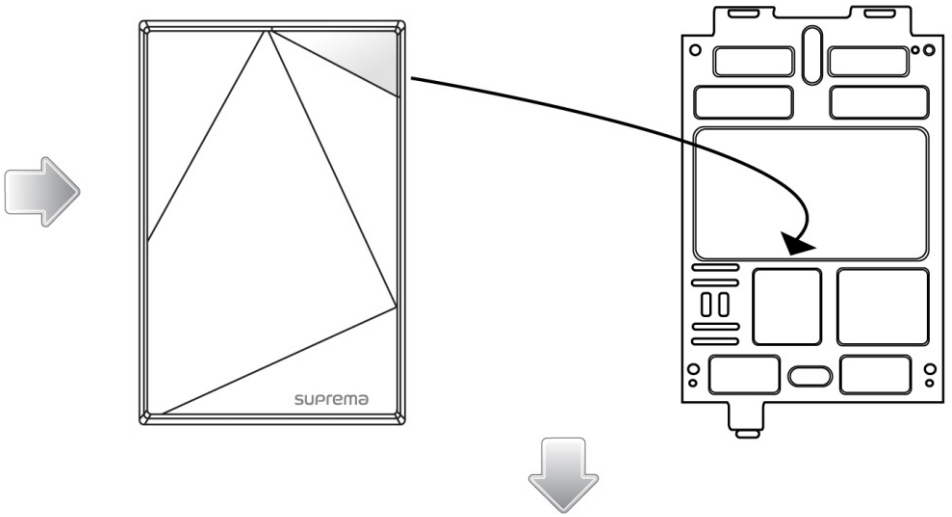


Installation of Wall-mount Bracket

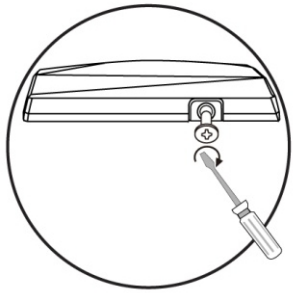
- **Fix wall mount bracket on a wall using wall mounting screws**



- **Hook Xpass Slim on the wall mount bracket**

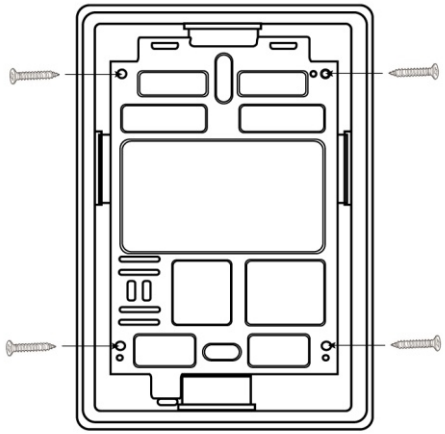


- **Fix Xpass Slim and wall mounting bracket using a wall mounting screw**

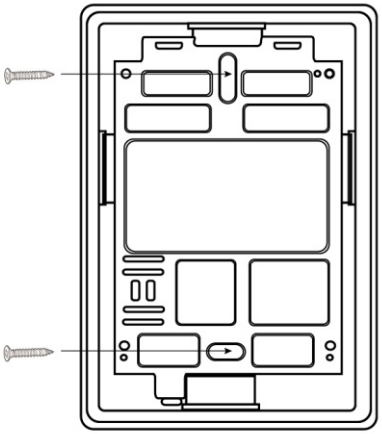


Installation of Extended Bracket

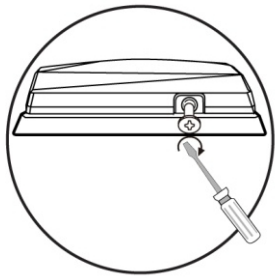
- **Assemble the extended bracket using screws**



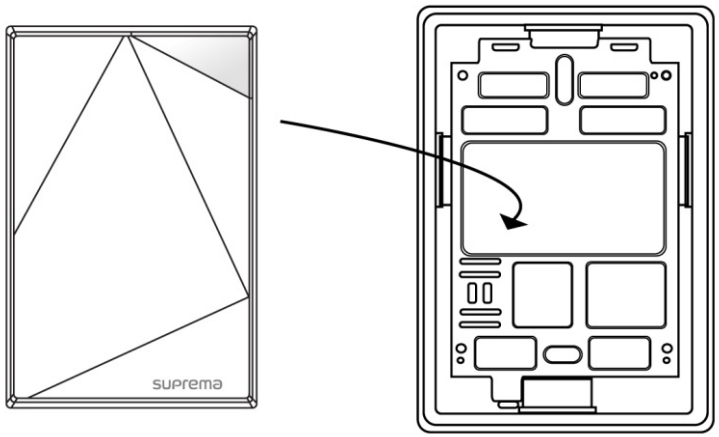
- **Mount the extended bracket to the desired location using screws**



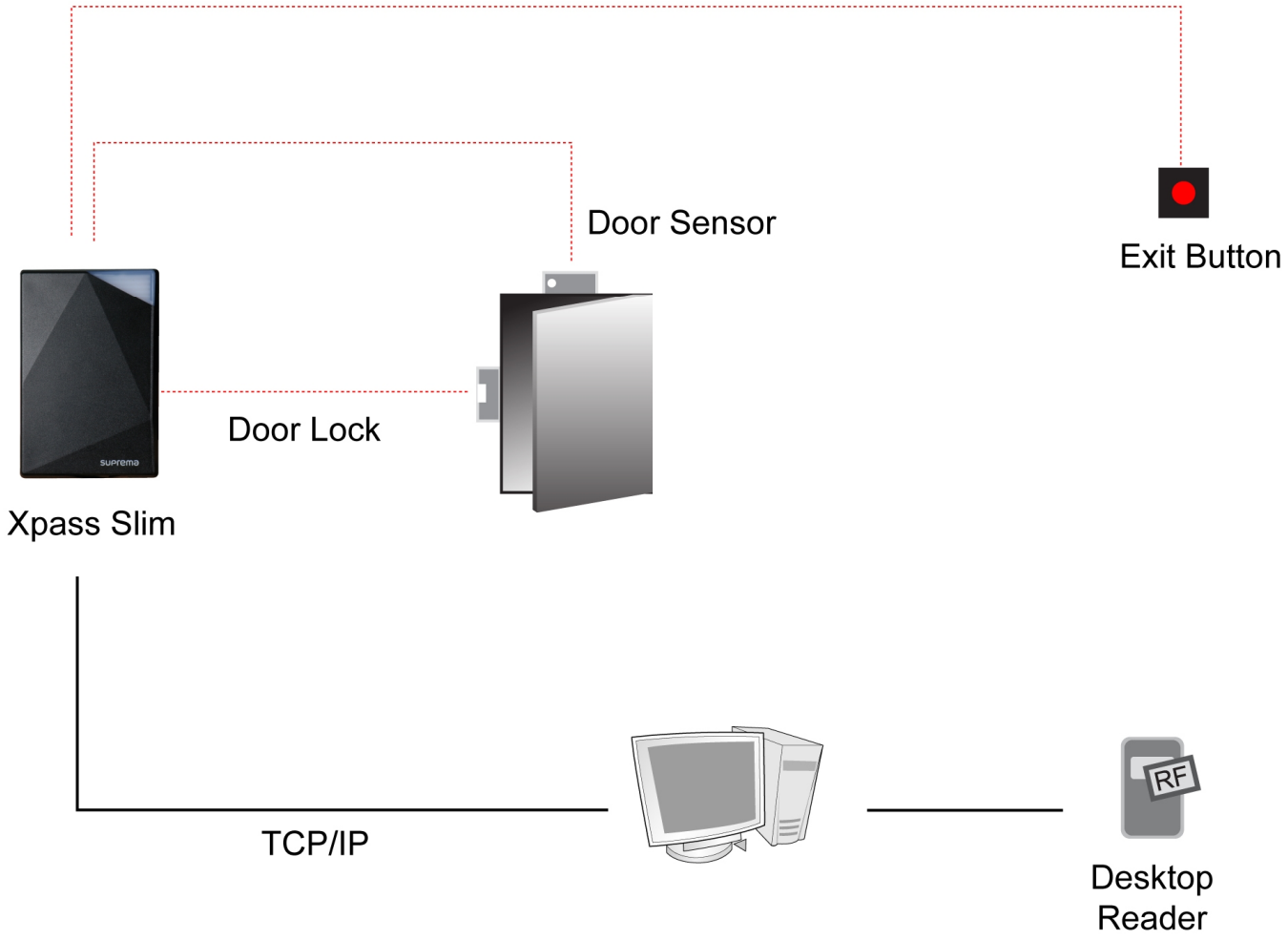
- **Fix Xpass Slim and the extended bracket using screws**



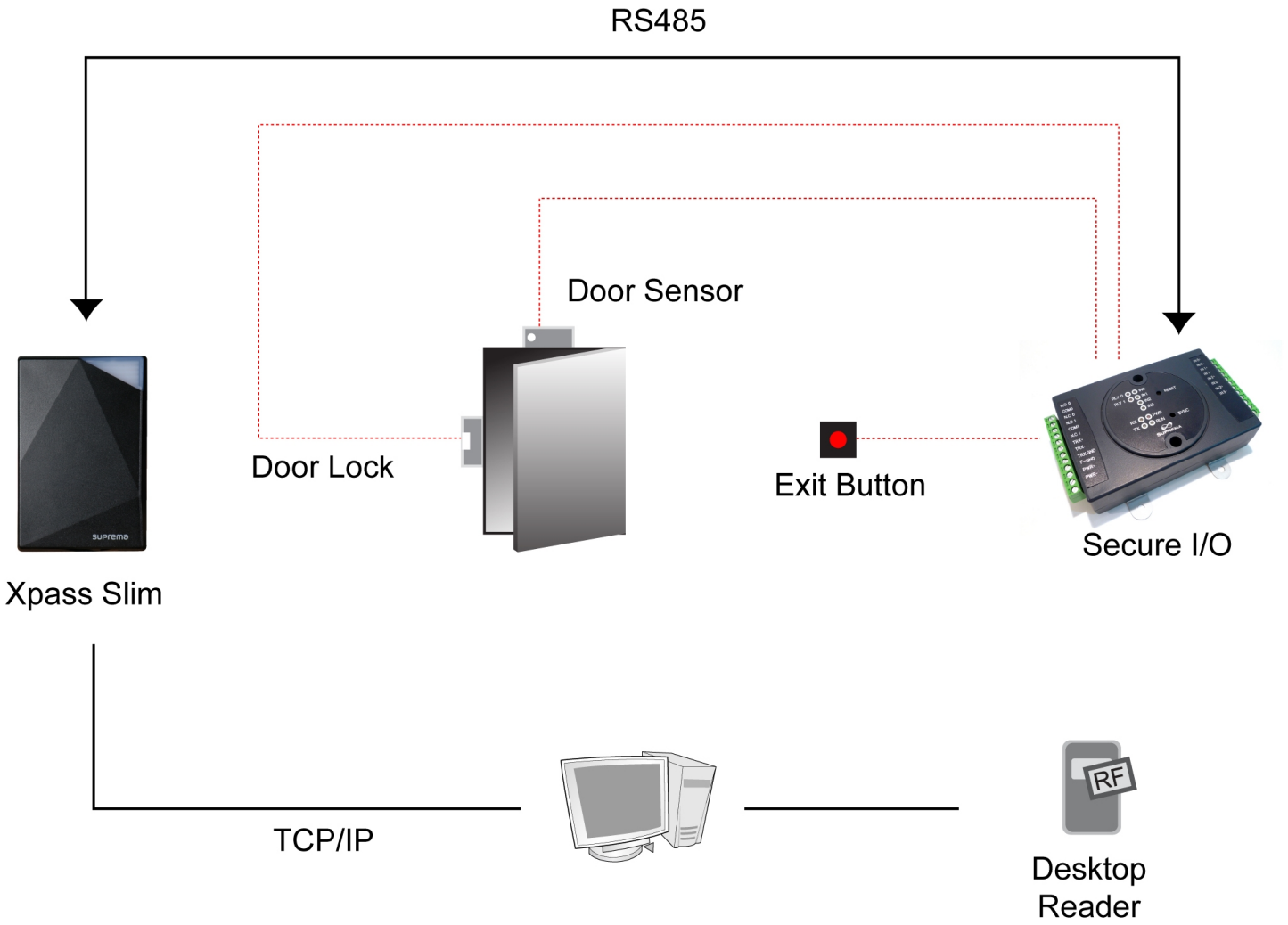
- **Hook Xpass Slim on the extended bracket**



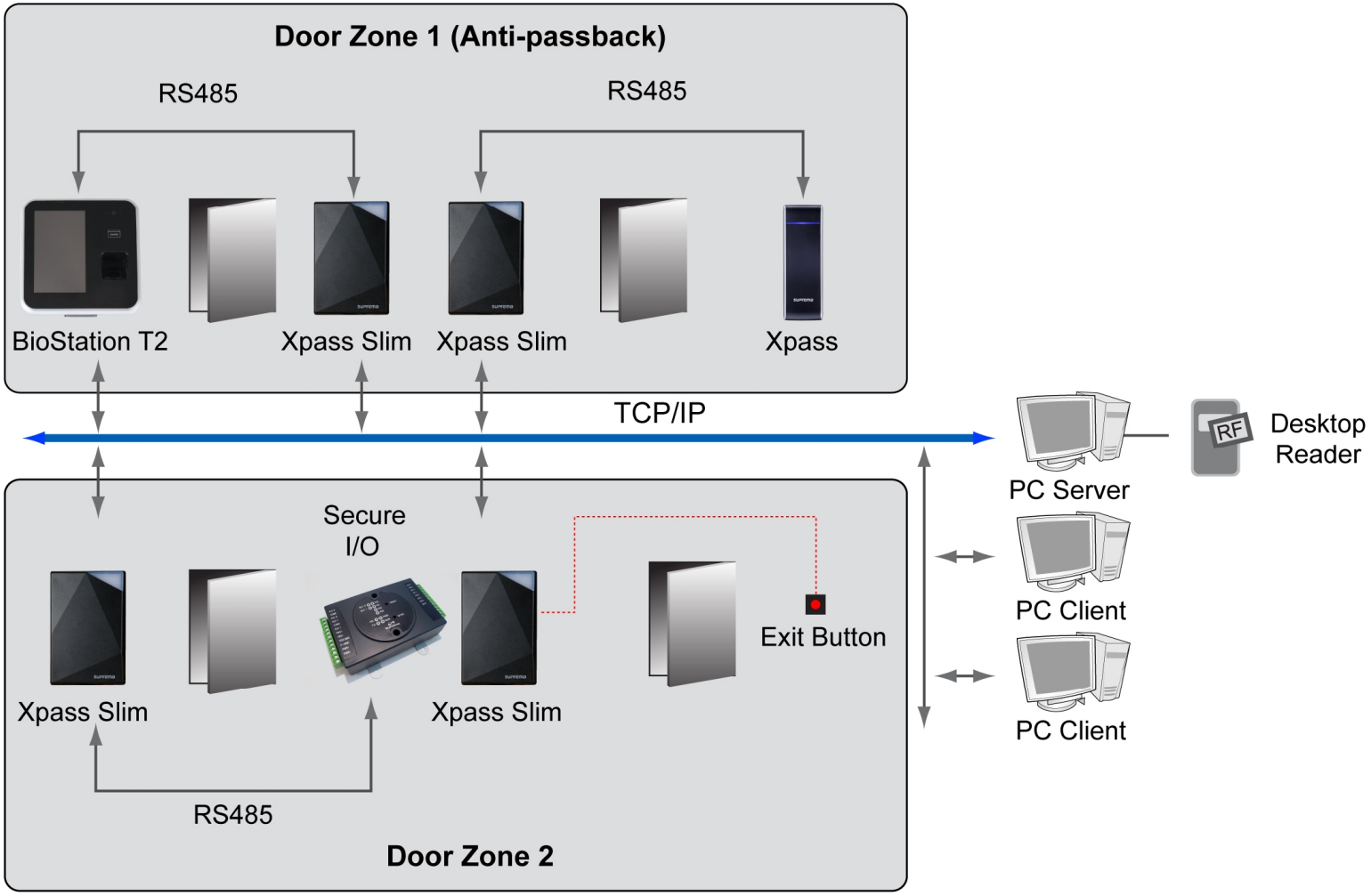
Installation Reference 1 - Standalone



Installation Reference 2 – Standalone (Secure)



Installation Reference 3 – Network



Specification

CPU	32 bit Micro-processor
Memory	8MB FLASH + 16MB SDRAM
RF Card	13.56 MHz ISO14443A/B, ISO15693, Mifare/DesFire(CSN), Inside(CSN), Felica(IDM)
User Capacity	40,000 user
Log Capacity	50,000 log
Network interfaces	Interfaces : TCP/IP, RS485, Wiegand In or Out
IP Rate	IP 65 class
Sound	Multi-tone buzzer
LED	Multi-color LED
RTC	Lithium-ion rechargeable batteries
I/O	Relay x 1 Tamper x 1 Switch input x 2
Power	12Vdc
Operating Temperature	-20 ~ 50°C
Size	80 x 120 x 11.4mm (W x H x D)
Certificates	CE, FCC, KCC, RoHS, IP65

Caution for RTC Battery

It may be occurred the risk of explosion for improper replacement of battery.
Please use the specified battery according to proper instruction.

Electrical Specification

	Min.	Typ.	Max.	Notes
Power				
Voltage (V)	10.8	12	13.2	Use regulated DC power adaptor only
Current (mA)	-		500	
Switch Input				
VIH (V)	-	TBD	-	
VIL (V)	-	TBD		
Pull-up resistance (Ω)	-	4.7k	-	The input ports are pulled up with 4.7k resistors
TTL/Wiegand Output				
VOH (V)	-	5	-	
VOL (V)	-	0.8	-	
Pull-up resistance (Ω)	-	10k	-	The outputs ports are open drain type, pulled up with 10k resistors internally
Relay				
Switching capacity (A)	-	-	1 0.3	30V DC 125V AC
Switching power (resistive)	-	-	30W 37.5VA	DC AC
Switching voltage (V)	-	-	110 125	DC AC

FCC Rules

Caution

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

Warning

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 interface, and (2) this device must accept any interface received, including interference that may cause undesired operation.

Information to User

This equipment has been tested and found to comply with the limit of 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, user 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 by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more the following measures:

1. Reorient / Relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit difference from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help

Suprema Inc.
16F Parkview Office Tower, Jeongja-dong, Bundang-gu,
Seongnam, Gyeonggi, 463-863 Korea
E-mail : support@supremainc.com
Website : www.supremainc.com