

suprema Xpass



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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.



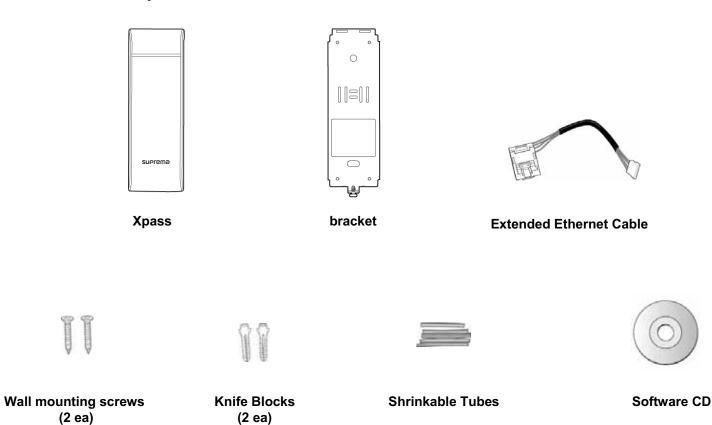
Contact your nearest dealer in case of a trouble or problem.

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



Product components

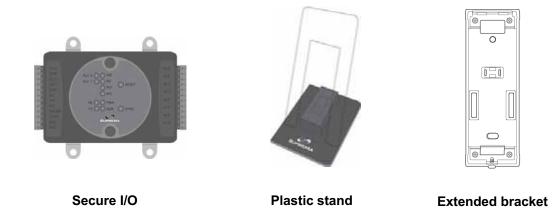
Basic components



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



Optional accessories

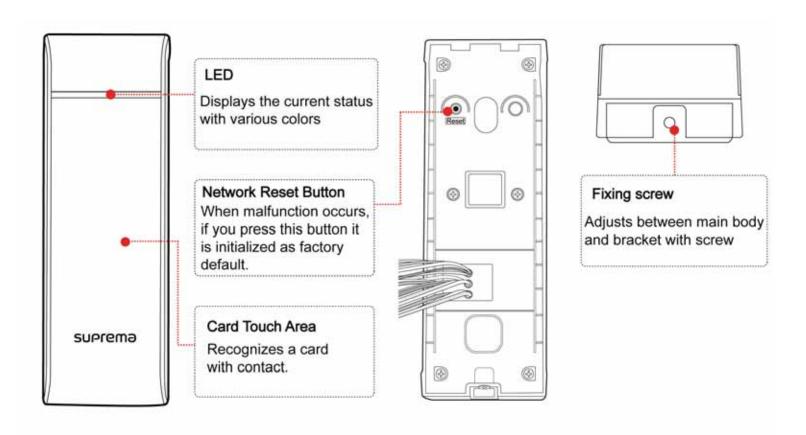




adaptor

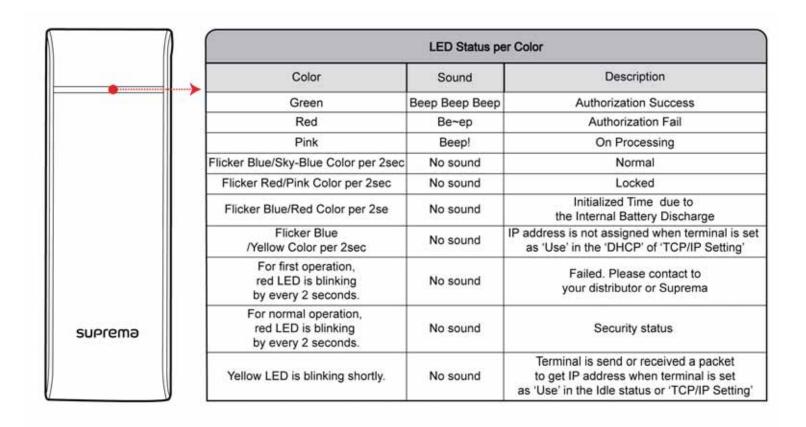


Names of each parts





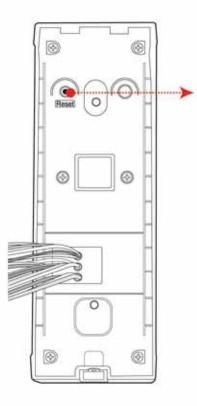
LED status





Initialization of network setting

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

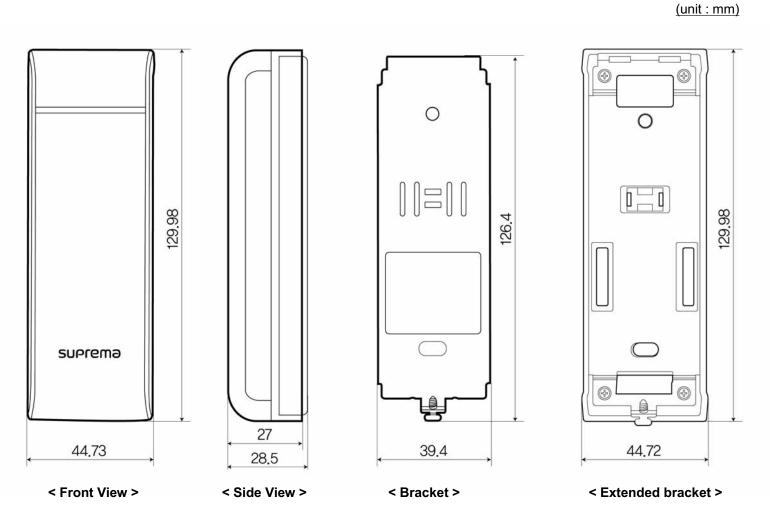


Initialzing the network setting

- Press the Reset button in the switch of Xpass's back side for 3 second or above.
- Connect between Xpass and Biostar Client(Ver.1.25 or higher) by using TCP/IP or RS-485.
- ·Network default setting value
- TCP/IP Address(Fixed): 192.168.0 bps(Not Checked: Use Server)
- RS-485 : PC Connection, 115200 bps
- Enter th desired value of TCP/IP address or RS-485 to change setting value. And save setting value.
- After delete the Xpass among devices list, re-connect bewteen Xpass and BioStar using the new TCP/IP address or RS-485 setting.

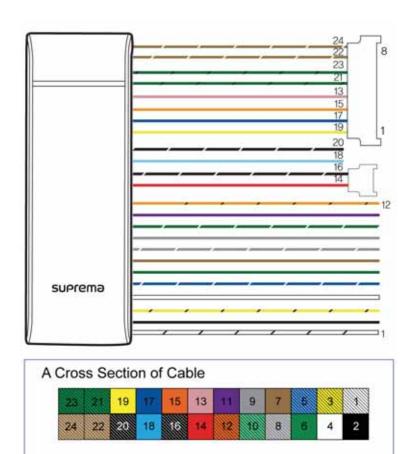


Product Dimension





Cables and Connectors

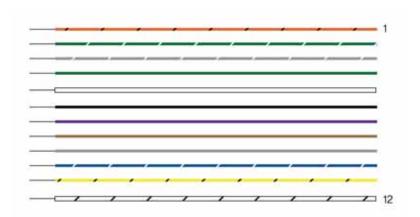


No	Pin Name	Color
1	485 GND	White (black string)
2	Wiegand-GND	Black
3	485 -	Yellow (black string)
4	Wiegand-1	White
5	485 +	Blue (white string)
6	Wiegand-0	Green
7	Input-1	Brown
8	Relay Open	Gray (white string)
9	Input-GND	Gray
10	Relay Com	Green (white string)
11	Input-0	Purple
12	Relay Close	Orange (black string)
13	TX+ (LAN)	Pink
14	Power IN+	Red
15	TX- (LAN)	Orange
16	Power IN-	Black (white string)
17	RX+ (LAN)	Blue
18	Power OUT+	Light Blue
19	RX- (LAN)	Yellow
20	Power OUT-	Black (white string)
21	VB1	Green (black string)
22	VB2	Brown (white string)
23	VB1	Green (black string)
24	VB2	Brown (white string)



Cables and Connectors

Cable Specification



	Pin	Pin Name	Color
1		RLY NC	Orange (black string)
2	Relay	RLY COM	Green (white string)
3		RLY NO	Gray (white string)
4		WGD D0	Green
5	Wiegand	WGD D1	White
6		WGD GND	Black
7		IN 0	Purple
8	Switch	IN 1	Brown
9		IN GND	Gray
10		485+	Blue (white string)
11	485	485-	Yellow (black string)
12		485 GND	White (black string)



Pin		Pin Name	색상
		POWER OUT -	Black (white string)
	D	POWER OUT +	Light Blue
3	Power	POWER IN -	Black (white string)
1		POWER IN +	Red

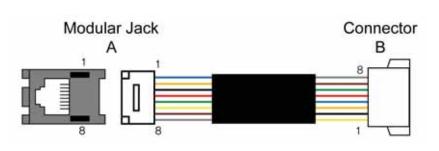


LAN cable



	Pin	Pin Name	Color
1		RX-	Yellow
2		RX+	Blue
3		TX-	Orange
4	LAN	TX+	Pink
5	LAIN	VB1	Green (black string)
6		VB1	Green (black string)
7		VB2	Brown (white string)
8		VB2	Brown (white string)

Ethernet extension cable

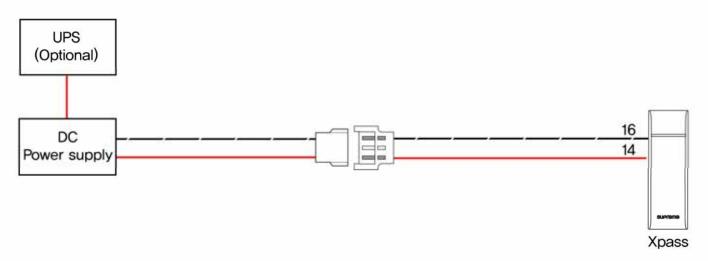


Modular Jack (A)	Connector (B)	Pin Name	Color
1	4	TX+	Blue
2	3	TX-	Orange
3	2	RX+	Black
6	1	RX-	Yellow
4	5	VB1	Red
5	6	VB1	Green
7	7	VB2	Brown
8	8	VB2	Gray



Power Connection 1

Pin	Pin Name	Color
14	POWER IN+	Red
16	POWER IN-	Black (white string)



Recommended power supply

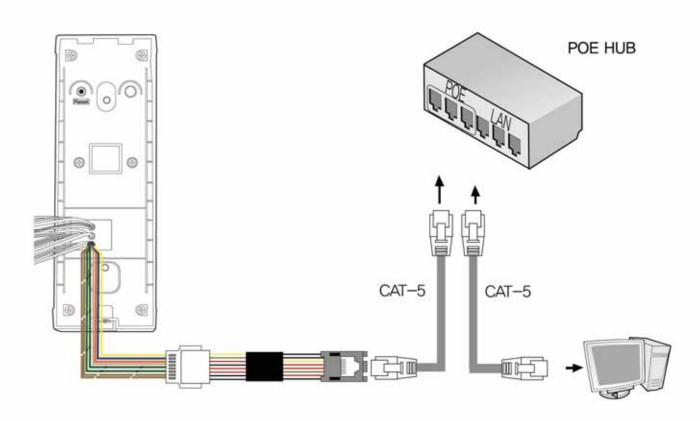
12V \pm 10%, at least 500mA.

Comply with standard IEC/EN 60950-1.

To share the power with other devices, use a power supply with higher current ratings.



Power Connection 2

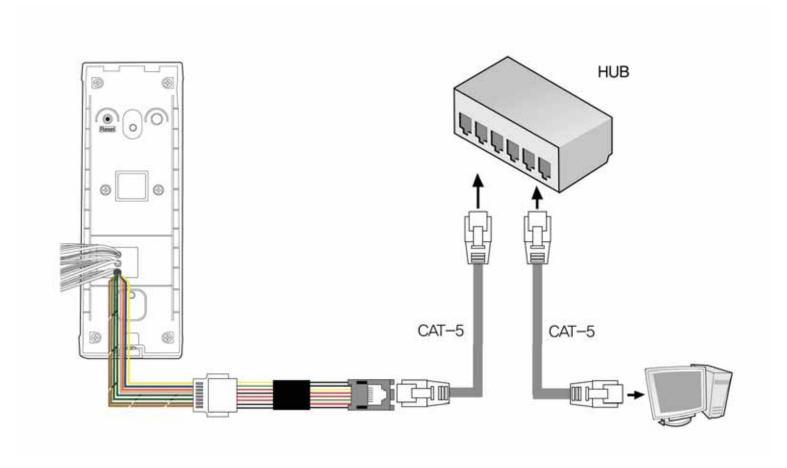


Recommended power supply

Please use the distance of LAN cable within 100m in case of POE power.

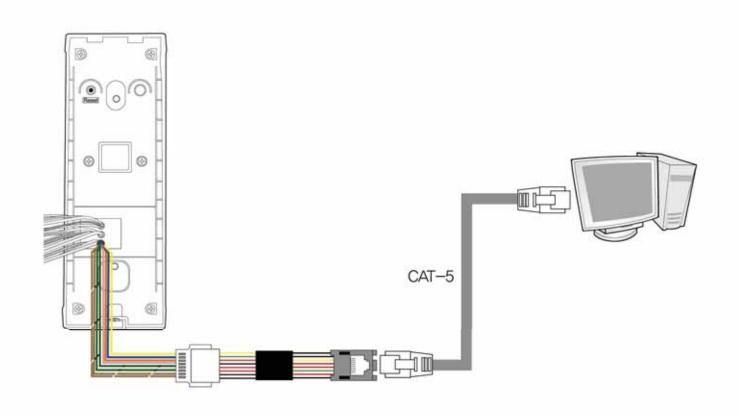


LAN Connection





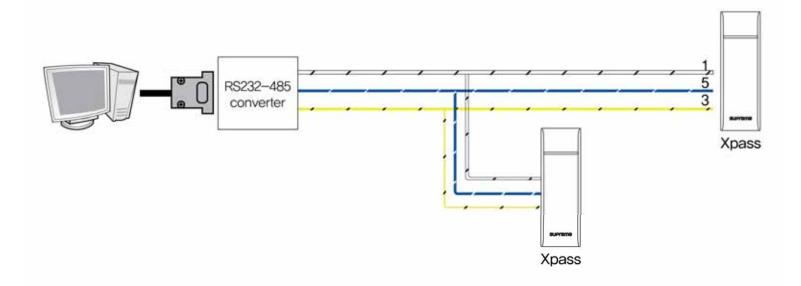
LAN Connection (Direct connection with PC)





RS485 Connection for Host Communication

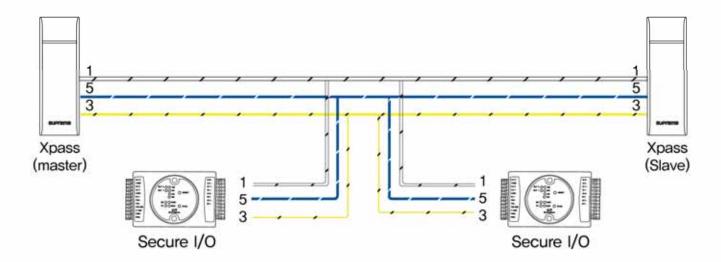
Pin	Pin Name	Color
1	485 GND	White (black string)
3	485 -	Yellow (black string)
5	485 +	Blue (white string)





RS485 Connection for Secure I/O

Pin	Pin Name	Color
1	485 GND	White (black string)
3	485 -	Yellow (black string)
5	485 +	Blue (white string)



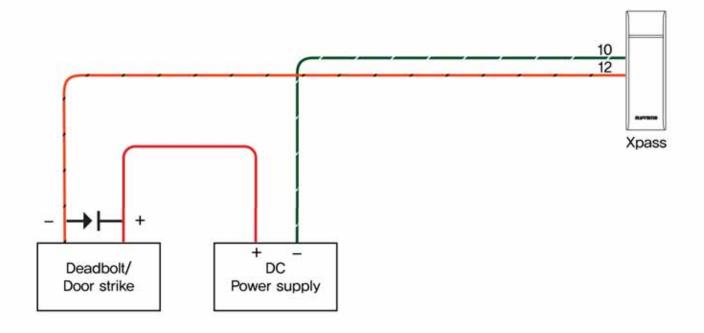
Max number of devices

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



Relay Connection – Fail safe lock

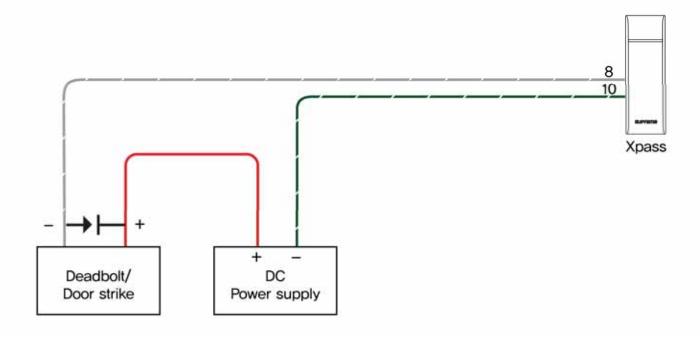
Pin	Pin Name	Color
10	RLY COM	Green (white string)
12	RLY NC	Orange (black string)





Relay Connection – Fail secure lock

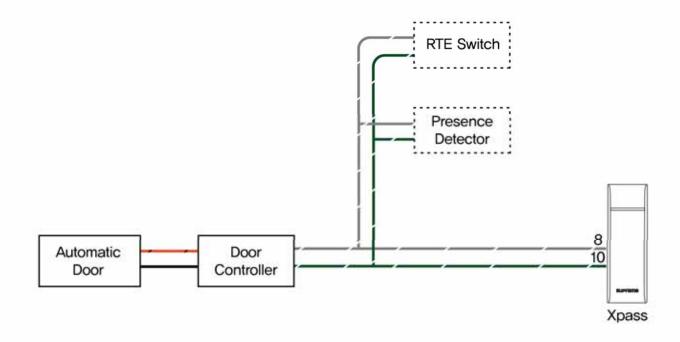
Pin	Pin Name	Color
8	RLY NO	Gray (white string)
10	RLY COM	Green (white string)





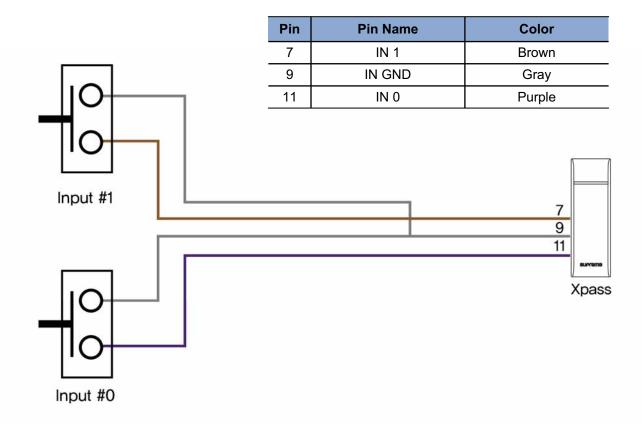
Relay Connection - Automatic door

Pin	Pin Name	Color
8	RLY NO	Gray (white string)
10	RLY COM	Green (white string)



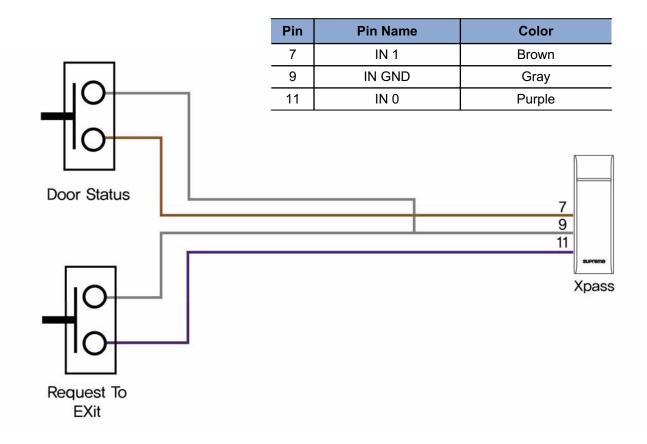


Digital Input Connection (Alarm, Emergency S/W)





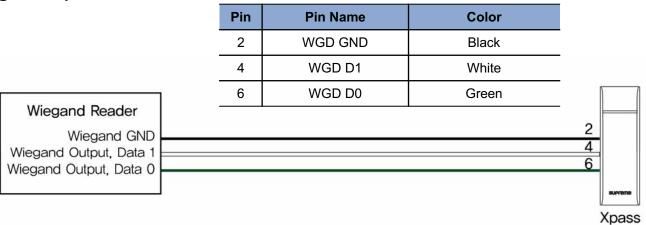
Digital Input Connection (RTE, Door sensor)





Wiegand Input/Output

Wiegand Input



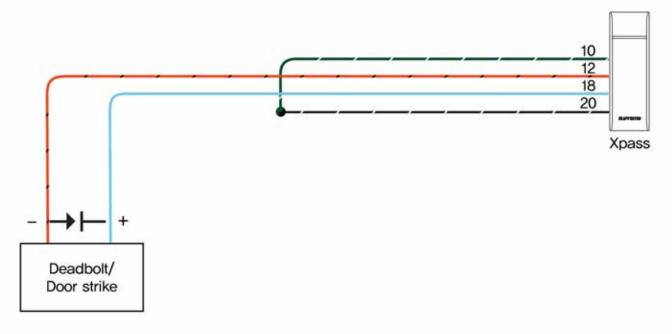
Wiegand Output

gand Output	Pin	Pin Name	Color	
	2	WGD GND	Black	
	4	WGD D1	White	
	6	WGD D0	Green	
Controller				
Wiegand GND				2
Wiegand Input, Data 1				6
Wiegand Input, Data 0				
				supreme
				Xpass



Output

Pin	Pin Name	Color
10	RLY COM	Green (white string)
12	RLY NC	Orange (black string)
18	PWR OUT +	Light Blue
20 PWR OUT -		Black (white string)



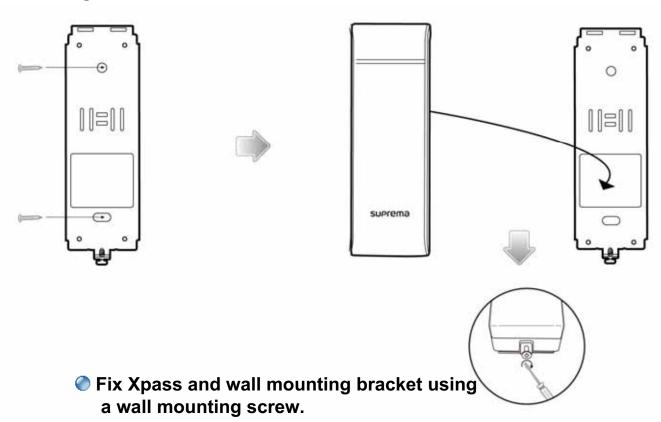
Caution: Max. 700mA is supplied using adapter for the external output.

Be careful to satisfy the power capacity in use.



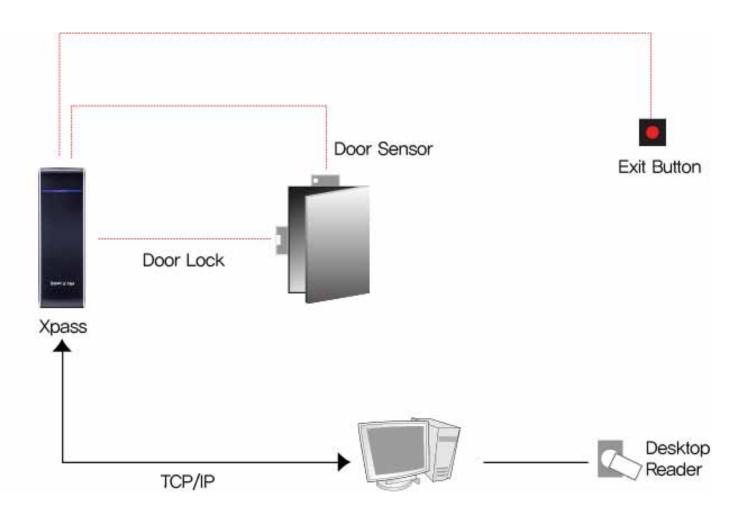
Installation of Wall-mount Bracket

- Fix wall mount bracket on a wall using wall mounting screws
- Hook Xpass on the wall mount bracket



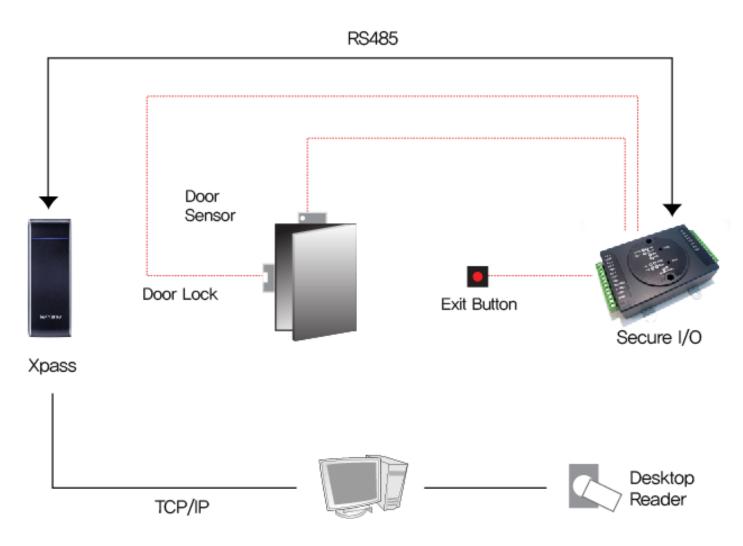


Installation Reference 1 - Stand alone



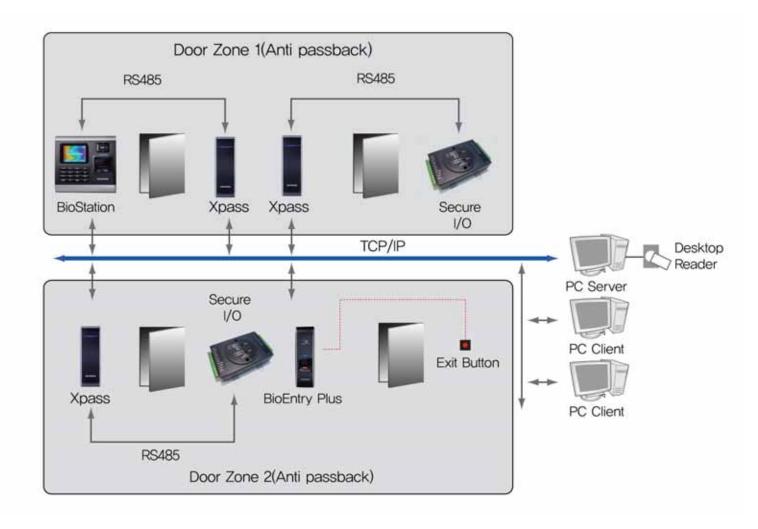


Installation Reference 2 – Standalone (Secure)





Installation Reference 3 – Network





Specification

CPU	32 bit Micro-processor		
Memory	8MB FLASH + 16MB SDRAM		
RF Card	13.56 MHz Mifare (XPM) 125 KHz EM Prox (XPE) 125 KHz HID Prox (XPH)		
User Capacity	40000 user		
Log Capacity	50000 log		
Network interfaces	TCP/IP, RS485		
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 Wiegand x 1		
Power	12Vdc, POE		
Operating Temperature	-20 ~ 50° C		
Size	45 x 130 x 27mm (W x H x D)		
Certificates	CE, FCC, KCC, 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.	Тур.	Max.	Notes		
Power						
Voltage (V)	10.8	12	13.2	Use regulated DC power adaptor only		
Current (mA)	-		140			
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)	-	4.7k	-	The outputs ports are open drain type, pulled up with 4.7k resistors internally		
Relay						
Switching capacity (A)	-	-	1 0.3	30V DC 125V AC		
Switching power (resistive)	-	-	30W 37.5V A	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