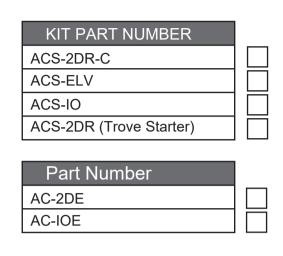
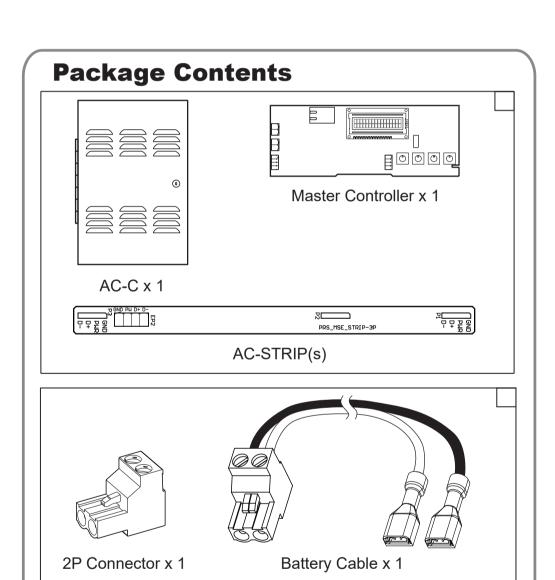
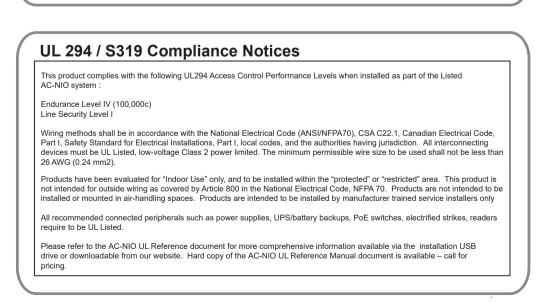
# **EAIPHONE**

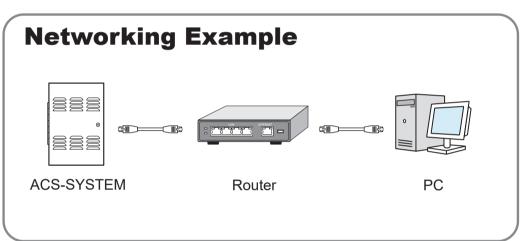
## **Installation Manual**









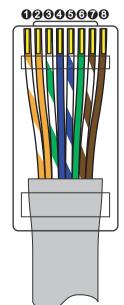


### **Cable Requirements**

Name	Maximum Distance	Cable Type	Code
Network Cable***	100 m (328')	twisted pair, 4 pairs	Cat5 100BASE-T or better
Reader Cable	18 AWG: 152 m (500') 22 AWG: 76.2 m (250')****	6 conductor stranded not twisted, 22 AWG or thicker, 100% overall shielded	Belden 5304FE or equivalent
Door Strike Cable	152 m (500')	2 conductor stranded 18 AWG	Aiphone 821802 or equivalent*
Output Cable	152 m (500')	2 conductor stranded 22 AWG	Aiphone 822202 or equivalent*
Input Cable	152 m (500')	2 conductor stranded 22 AWG, shielded	Aiphone 822202 or equivalent*
RS-485 Cable with Power	600 m (2000')	4 conductor stranded, twisted pair, 2 pairs, 22 ~ 16 AWG**, shielded	Belden 9402 or equivalent*

- \* Unless otherwise specified by manufacturer.
- \*\* Varies by current consumption of the other side.
- \*\*\* RecommendedT T568B wiring for both ends.
- \*\*\*\* Max distance may vary depending on cable gauge, environmental conditions and reader model.

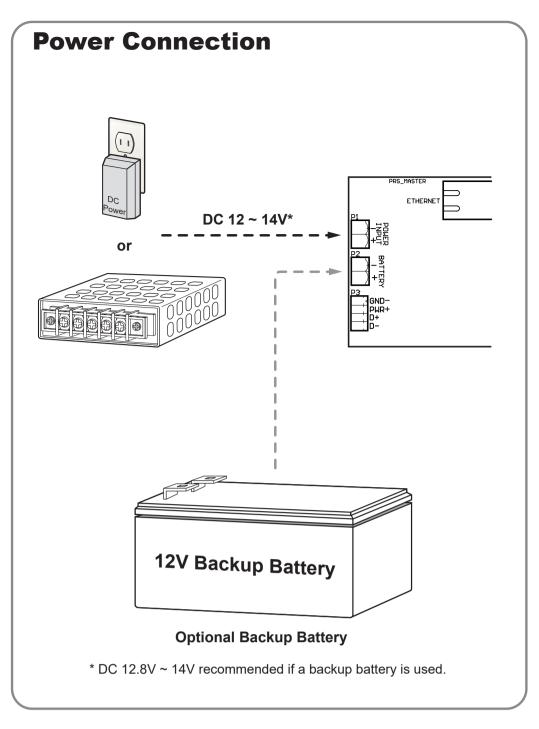
#### T568B (TIA/EIA568B) Wiring

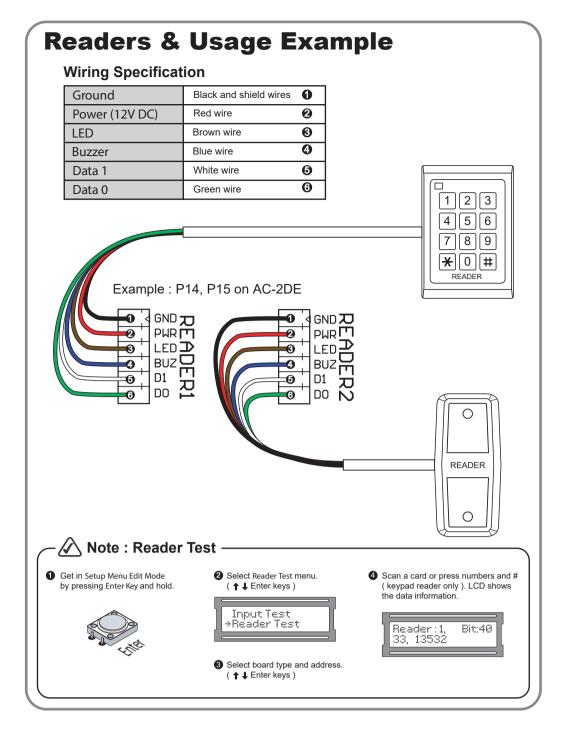


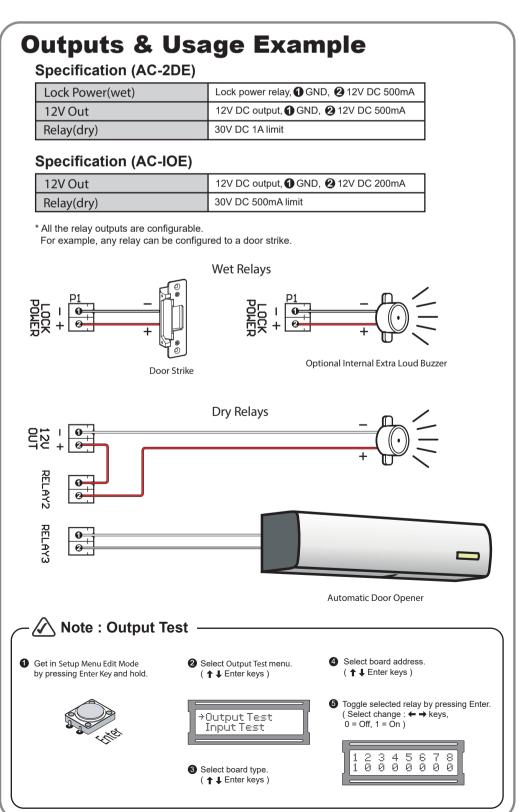
- White/Orange
- Orange
- 3 White/Green
- 4 Blue
- 6 White/Blue
- Green
- White/Brown
- 8 Brown

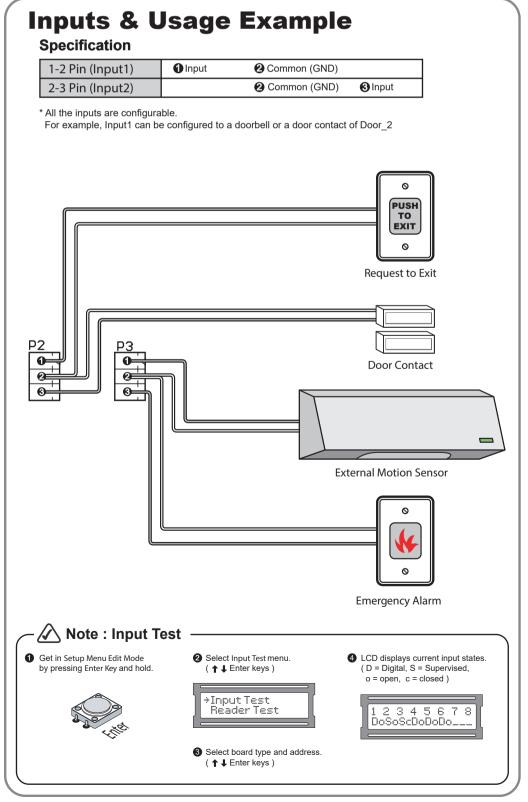
© Aiphone Corporation

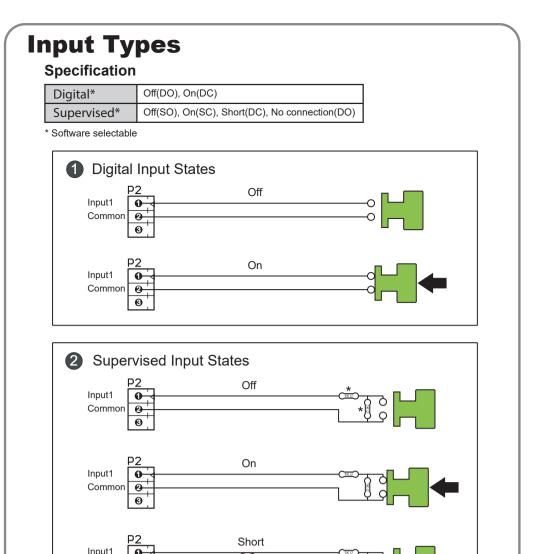
Part Number : 19601-19602-19603-19604-19612-19614 Rev 12.22





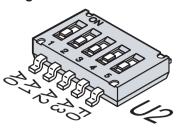




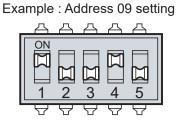


### **Address Setting**

Each expander board must be set an unique address to talk to the master controller. A DIP switch is used to set the address. Elevator kits require that AC-2DE dip switch be set to 9 as per dip switch adressing table.



Example: U2 DIP switch on AC-2DE



on off off on off

SW: up down down up down Only A0 ~ A3 is used for address

Address*	A	A1	A2	A3	
01	on	off	off	off	
02	off	on	off	off	
03	on	on	off	off	
04	off	off	on	off	
05	on	off	on	off	
06	off	on	on	off	
07	on	on	on	off	
08	off	off	off	on	
09	on	off	off	on	
10	off	on	off	on	
11	on	on	off	on	
12	off	off	on	on	
13	on	off	on	on	
14	off	on	on	on	
15	on	on	on	on	
00 (disabled)	off	off	off	off	

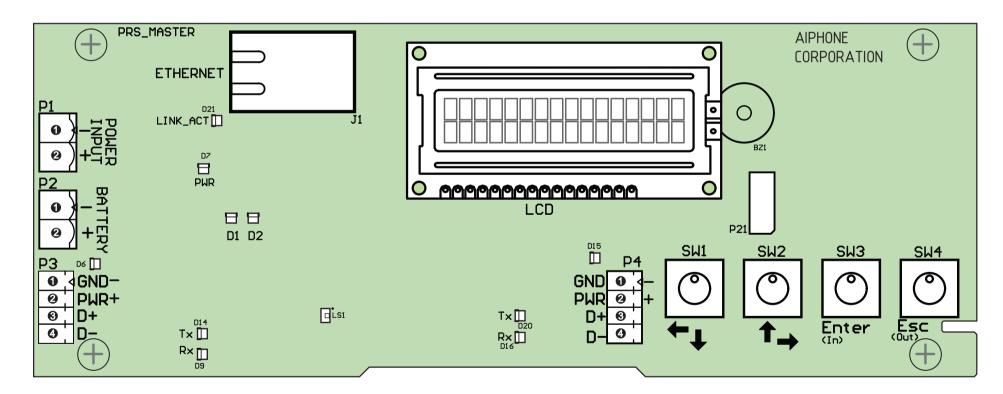
<sup>\*</sup>Address range restriction : AC-IOE board(01 ~ 08), other boards(01 ~ 15)

### **Board I/O and Connections**

Input1

\* 1K \( \Omega\) Resistor

No connection



D1	System heart beat
D2	Server log on/off state Key pressed
D6	P3(left strip) power
D7	System power
D9	P3(left strip) Rx data
D14	P3(left strip) Tx data
D15	P4(right strip) power
D16	P4(right strip) Rx data
D20	P4(right strip) Tx data
D21	Ethernet linked/activity

### Connectors

P1	DC 12V ~ 14V input
P2	DC 12V Backup battery
P3	Power and communication for the left strip
P4	Power and communication for the right strip
P21	Expansion
J1	Ethernet

SW1	Left(←), down(↓)
SW2	Right(→), up(♠)
SW3	Enter, get in
SW4	Esc, exit
Eto	

LS1	Tamper sensor	
BZ1	Embedded buzzer	
LCD	LCD display	

Get in	Press and hold Enter (beeps after 2 sec) Enter password**
Toggle cursor	Enter White blink: move Black blink: edit
Get out	Esc
Move cursor	Up(Right),Down(Left)
Select menu	Enter
Exit menu	Esc

#### Setup Menu View Mode

Get in	Press and hold Esc (beeps after 2 sec)
Get out	Esc
Move cursor	Up(Right),Down(Left)
Select menu	Enter
Exit menu	Esc

#### - 🐼 Note

- \* For a first time installation, use this
- mode to do the following tests.

  Output Test: Toggle relays with Enter
  Input Test: Shows input states
- Reader Test : Shows scanned card info
- \*\* Factory default password is 0000. Toll Free: 1-800-692-0200

