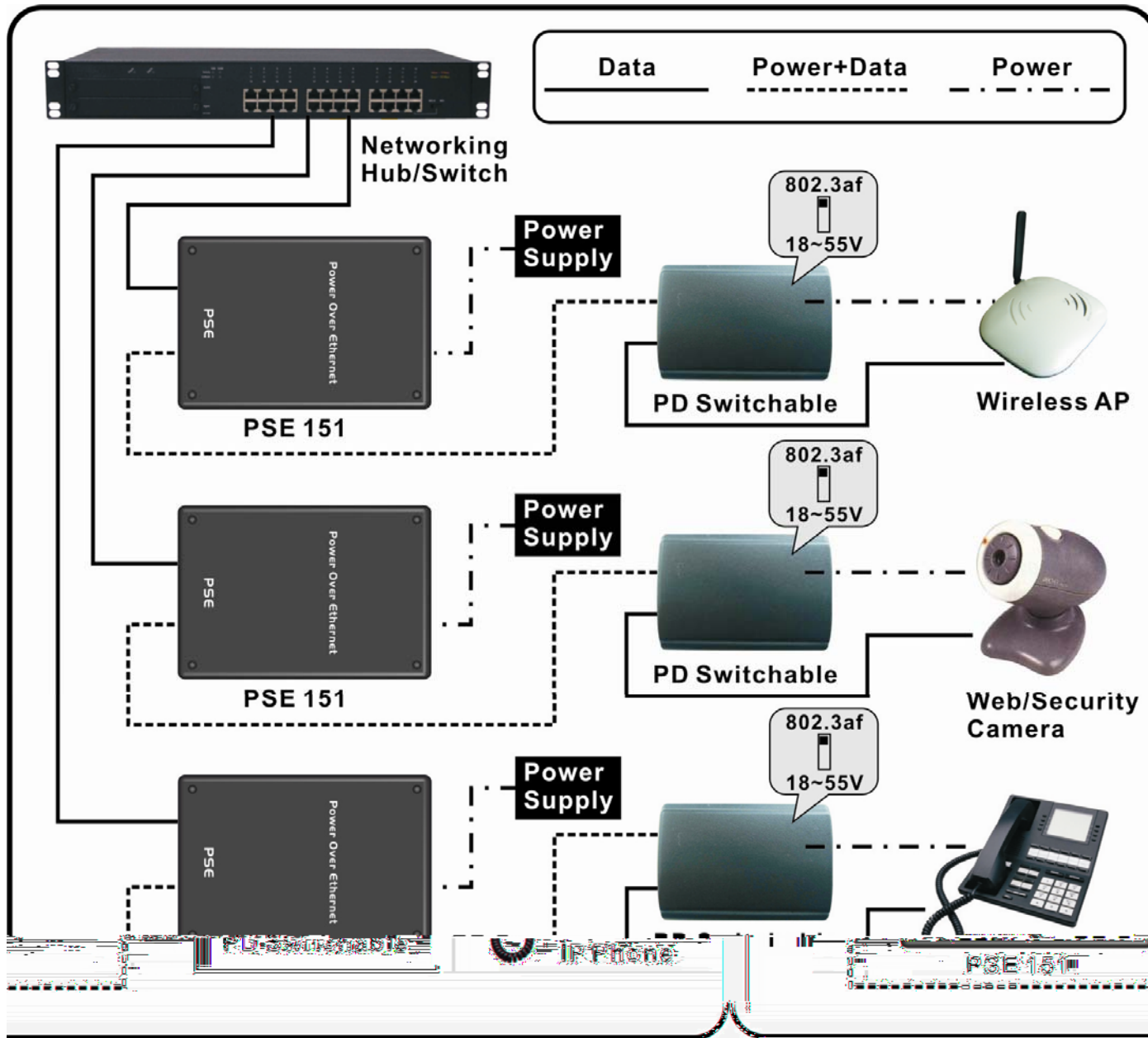


8. Installation Schematic



POWER OVER ETHERNET

Installation Guide



1. Introduction

To achieve best performance of a Wireless LAN, the location of Access Point (AP) must be carefully chosen. In most cases, finding a power supply for AP is a common obstacle. Power over Ethernet (PoE) technology provides the ideal power solution to help overcome these obstacles.

In Ethernet, four pairs of C5 or C5E twisted pairs are used as the medium for transmission. The actual data transmission, however, only takes up two pairs of wires (pairs 1-2 and 3-6). PoE technology utilizes the remaining pairs (pairs 4-5 and 7-8) to conduct electricity.

2. Function

Power Sourcing Equipment (PSE) transforms AC to DC. It has a maximum output power of 16W, fluctuation of 60mV with a tolerance of $\pm 3\%$. When it overflows, overloads, short-circuits, or overheats, the PSE automatically turns off the power, and restarts after these problems are removed.

PSE applies single chip control management and uses compatible programs. Technical parameters are as follows:

1. This device complies with IEEE 802.3af
2. When PSE detects that it connects to a device which uses no electricity, the power supply will be turned off automatically.
3. PSE monitors circuit status at all times. Once it detects that it connects to an electronic device that has a range between 1-16W, it automatically provides electricity to it. When it is lower than 1W, electricity will not be supplied.
4. PSE protects circuits from problems such as short-circuit, overload, and electricity receiving device damage by turning off the power once a problem occurs. Normal power supply will be resumed once these problems are eliminated.

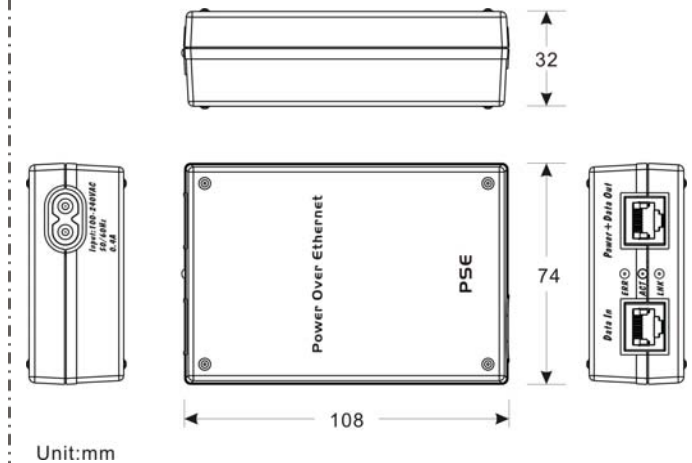
3. Parameter

- a. Input : 100-240V AC 50/60Hz 0.4A
Output: 48V 16W (Max)
- b. Data : 1/2&3/6
Power : 4/5+ & 7/8- (48V)
- c. Data In : Connects PC/HUB/Switch
- d. Weight : 0.16kg
- e. Dimensions: 108mm x 74mm x 33mm
- f. Case of material : ABS 94V-0
- g. Ethernet Cable
Data rate: 10/100Mbps
TIA/EIA 568 Cat. 5
Connector: RJ-45
- h. Operating Temperature
0 °C to 40 °C
- i. Storage Temperature
-40 °C to 70 °C
- j. Operating Humidity
10% to 80% RH
- k. Storage Humidity
5% to 90% RH
- l. CE FCC UL

4. Attention

- a. LAN cable must be RJ45 compatible with accurate wiring positions (568A or 568B); otherwise it may damage the PSE/PD.
- b. Outdoor use is not recommended.
- c. To prevent electrical shock, do not take apart the equipment during the use. To avoid damages to safety device inside the equipment, non-professional personnel should not take apart the equipment at any time.
- d. Do not place the POE network connection under outdoor environment.

5. Dimension



6. LED Indicators for PSE

A : LNK (Green) : Connection Indicator

On => good

Off => no good

B : ACT (Green) : Power Indicator

On => good

Off => no good

Blink => currently supplying power

C : ERR (Red) : Error Indicator (Short-circuit, overload, or electricity receiving device damage)

On => Error

Off => good

7. Accessories

- a. Power Cord × 1
- b. Installation Guide × 1