



## **Quick Installation Guide**

**RG-AP220 Series**

**Wireless Access Device**

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# CE0168!



# EU Declaration of Conformity

according to the Radio Equipment and  
Telecommunications Terminal Equipment Directive  
1999/5/EC

For the following equipment

Product : Wireless Access Point  
Type Designation/Trademark: RG-AP220-E, RG-AP220-SE/Ruijie  
Manufacturer's Name : Fujian Ruijie Network Co., Ltd.  
Manufacturer's Address : 19# Building, Juyuanzhou Industrial Park, No. 618  
Jinshan Avenue, Cangshan District, Fuzhou

is herewith confirmed to comply with the requirements set out in the Council  
Directive 1999/5/EC for radio equipment and telecommunications terminal equipment.  
For the evaluation of the compliance with this Directive, the following standards  
were applied:

Safety: EN 60950-1 : 2006 / A11:2009

Health: Council Recommendation 1999/519/EC  
EN 62311 :2008

EMC : EN 301 489-1 V1.8.1(2008-04)  
EN 301 489-17 V2.1.1(2009-05)  
EN 55022:2006 /A1:2007, EN 55024:1998/A2:2003,  
EN 61000-3-2:2006/A1:2009, EN 61000-3-3:2008

Radio: EN 300 328 V1.7.1(2006-10)  
EN 301 893 V1.5.1(2008-12)

Responsible for making this declaration is the:

Manufacturer     Authorised representative established within the EU

Person responsible for making this declaration

Name, Surname : Jiang Chao

Position/Title : Manager

Fuzhou  
(Place)

2011-02-20  
(Date)

(Company stamp and legal signature)

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# 1

## AP Quick Installation Guide

### 1.1 Install Wireless AP

#### 1.1.1 Safety Precautions

To guarantee the normal operation and longer service life of wireless AP, please observe the following precautions:

1. Please put the device in a ventilated place;
2. Avoid exposure to hot environment;
3. Keep the device away from high-voltage cables;
4. Please install the device indoors;
5. Please keep the device away from thunderstorm and strong-wind environment;
6. Please keep the device clean and avoid dust pollution;
7. Before cleaning the device, please shut down power supply;
8. Do not use damp cloth to wipe the device; do not use liquid to clean the device;
9. Do not open the enclosure of AP when it is working;
10. Make sure the power supply matches the rated voltage of AP;
11. Please firmly mount the device;
12. This device complies with national and industrial standards.

#### 1.1.2 Install Wireless AP



**Caution**

1. Before installing or moving the wireless AP, please turn off power first.
2. Please make sure the mounting screws are properly tightened.
3. Make sure the mounting position of wireless AP is convenient for observing indicator LEDs.

### 1.1.2.1 Install Pipe and Screws

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During installation, please use screws and pipe of recommended size, as shown below:

Straight-through expansion pipe: M7x  $\phi$  4.5x28 (mm)

Screw: 4 \* 20PABC (mm)

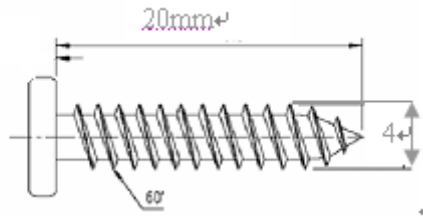


Fig 1. The screw

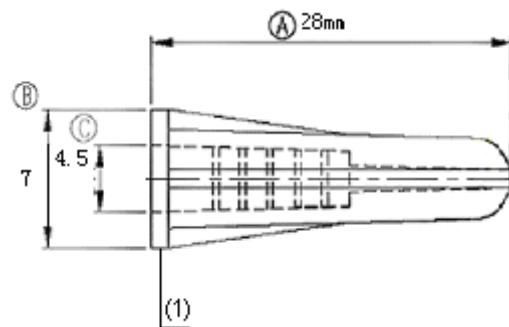


Fig 2. The pipe

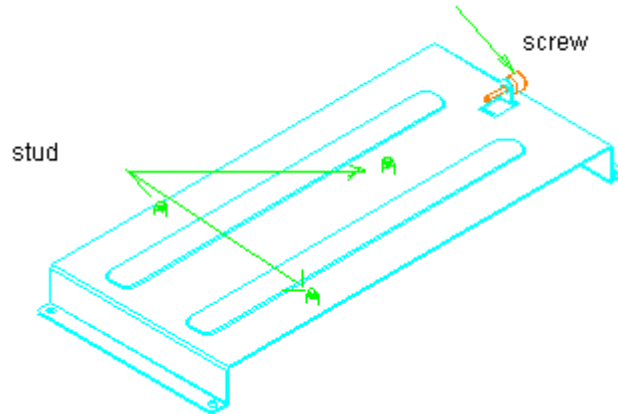
### 1.1.2.2 Mounting Steps

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Mounting steps are shown below:

The size and depth of four wall-mounting holes drilled on the wall shall be determined according to the size of mounting pipe and screws selected. Make sure the pipe can be put into the holes, and the screws can be secured after screw-in.

1. Drill four 5mm holes on the wall, constituting the four vertexes of a 120x275mm rectangle.
2. Put the sockets into the holes and make sure their outer edge is flush with the wall surface.
3. Fix the wall-mounting bracket to the wall or ceiling with screws.



**Fig 3.**

4. Align the three holes at the bottom of wireless AP to with the three studs of brackets and then pull the AP towards the wall-mounting screw for 8mm, as shown in Fig 3.
5. Secure this screw until reaching the side hole of AP.



**Caution**

If the AP is mounted on vertical surface, the bracket end with screw shall be the bottom side.

## **1.2 Check Device Status**

AP adopts two kinds of power supply: 1. POE; 2. 48V adapter.

### **1.2.1 POE Power Supply**

When using POE power supply, first make sure 802.11af/802.11at POE power supply is enabled on other end of Ethernet connected, and then connect the Ethernet cable to the Ethernet interface of AP (1000M supported), as shown in Fig. 4 (port 6).

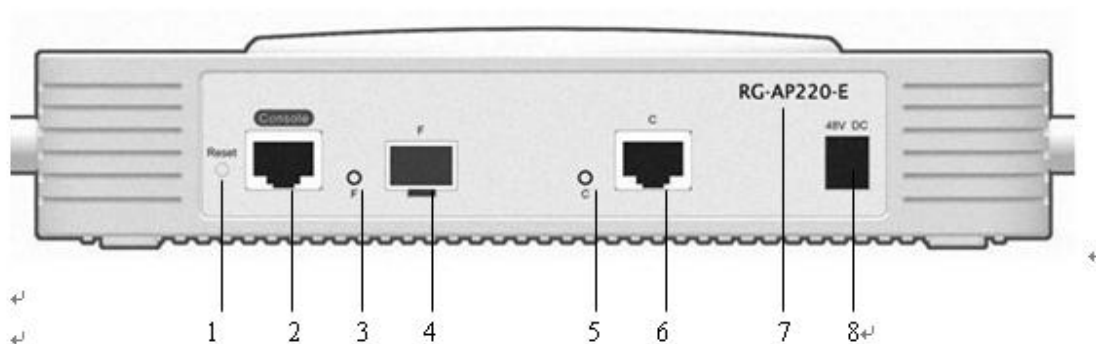


Fig 4.

### 1.2.2 Adapter Power Supply

When using adapter power supply, please use the adapter recommend by our company.

### 1.2.3 Check Power-on Status

After the AP is powered, if the device works normally, the STATUS LED will blink green, and then stop blinking after 30 seconds (see 2 in Fig. 5). The RADIO LED will light up green when AP works at 2.4G (see 1 and 3 in Fig. 5). When the Gigabit Ethernet cable is connected to the Ethernet interface of AP, the LED will light up or blink (green for 1000M, orange for 100M/10M, constant green for link only, and blinking for data transmission).

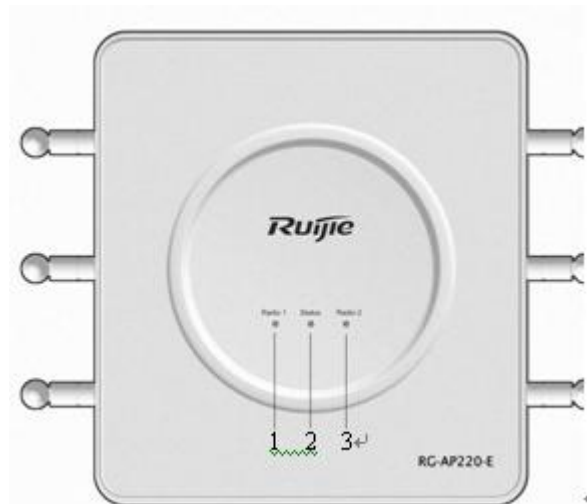


Fig 5.

### 1.2.4 Troubleshooting

1. The status LED won't light up after power-on

A. POE power supply: please check and make sure the other end of cable has 802.11af power supply enabled, and then check whether the cable is properly connected.

B. Adapt power supply: Check whether the adapter has commercial power input, and then check whether the adapter works normally.

2. After connecting the Ethernet cable, the Ethernet indicator LED won't light up or blink

Please check whether the counterpart device works normally, and then check whether the Ethernet cable is applicable for the current data rate. Make sure the cable is properly connected.



### 3. The user cannot find AP

- A. First follow the abovementioned two steps.
- B. Check whether the AP is properly configured.
- C. Adjust the angle of AP's antenna.
- D. Move the client device of mobile user and adjust the distance between client device and AP.

#### **Note:**

1. The above installation guide is applicable to RG-AP220-E. The actual installation steps may vary depending on the actual device.

2. The unit must be installed in a manner that provides a minimum separation distance of 20 cm or more between the antenna and persons and must not be co-located or operate in conjunction with any other antenna or transmitter to satisfy RF exposure requirements for mobile transmitting devices.

3. Please observe the National Local Regulation of location where the product is to be used. This device might be restricted for use in some or all countries of the European Union

4. FCC Notice:

This equipment has been tested and found to comply with the limits for 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, uses and can radiate radio frequency energy. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or 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 of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.

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.

**CAUTION:** To comply with the limits of the Class B digital device, pursuant to Part 15 of the FCC Rules, this device is comply with Class B limits. All peripherals must be shielded and grounded. Operation with non-certified peripherals or non-shielded cables may results in interference to radio or reception.

MODIFICATION: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.