



SKYWAY-MOBILE SERIES

Subscriber Station

User's Guide

July 2008

Rev 1

# 1. Declaration

Note: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.  
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.

Note: 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 radiates radio 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 of the following measures:

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

The antenna(s) used for this transmitter must be installed with providing a separation distance of at least 20cm from all persons.

# 2. Introduction

Contents of the CPE package:

- CPE ×1
- Power adapter ×1
- Ethernet cable ×1
- User's manual ×1

If any of the items are missing or damaged, please contact your service provider.

The following figures (2-1 and 2-2) show the basic appearance and external functions of the CPE. Table 2-1 describes the operating parameters.



Fig 2-1: CPE appearance

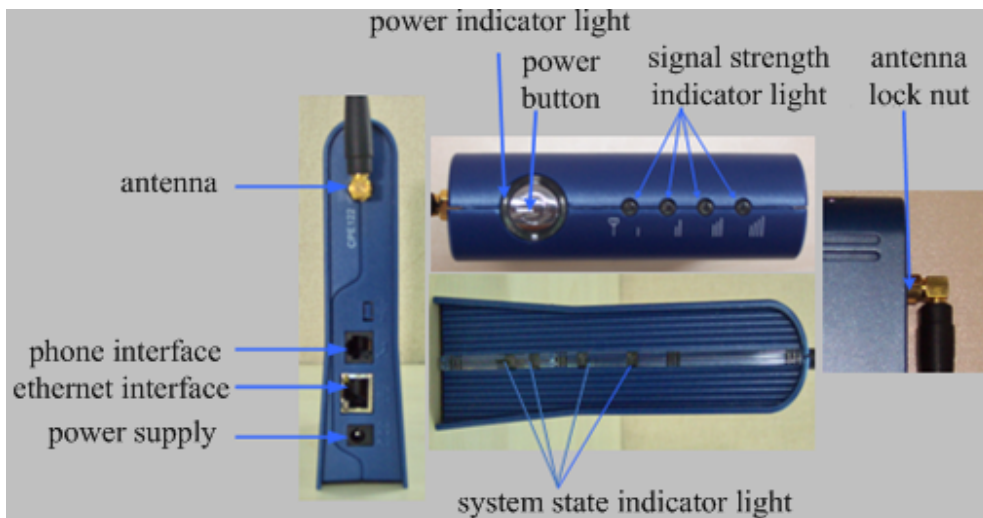


Fig 2-2: CPE detailed views

Items	Description
Dimensions	150mm×95mm×40mm
Weight	About 105g (excluding the battery)
Power Adapter Input	120V AC input, 5V DC 2A output
Power Consumption	3W
Atmospheric pressure	86kPa ~ 106kPa
Operating temperature	0C ~ +45C
Storage temperature	-25C ~ +55C
Ambient humidity	20%~75%

Table 2-1 CPE technical parameters

### 3. Usage Scenarios

#### Connection mode

There are many connection modes of CPE for various demands: connecting to the computer directly, connecting to the hub, etc. After you choose a connection mode, you

may start the CPE installation using the subsequent illustrations contained in this user's manual.

In the event of any difficulty during installation, please feel free to contact your CPE provider.

### **CPE installation**

Make sure your CPE is off before the installation, and the installation steps are as follows:

1. Rotate the antenna 180 degrees clockwise, and fix the antenna by adjusting the antenna lock nut.

**Caution:** Don't overexert the antenna itself while rotate it. Fix the antenna by adjusting antenna lock nut.

2. Insert the RJ45-connector of the Ethernet cable into the computer's Ethernet interface, and insert the other RJ45-connector of the Ethernet cable into the CPE's Ethernet interface.

3. Insert the connector of the phone line into the telephone's phone interface, and insert the other connector of the phone line into the CPE's phone interface.

4. Insert one end of the power adapter connection line into the power supply interface on the side of CPE, and plug the other end into the 220V AC power socket.

5. Press the CPE power button, and state is "On". If the power indicator light is off, there should be something wrong with CPE or power adapter, please check the equipment connections carefully.

If this activity doesn't work, Please contact your CPE provider for help.

6. Observe the CPE signal strength indicator light:  
CPE is searching the network if the light is flickering;  
CPE has access to the BS if the light stops flickering, please follow the step 7;  
if the light has been flickering for a long time, please refer to Troubleshooting on page 9.

7. Power your computer and log in, then configure the setting of your computer as the requirement of network service provider, now you may surf the Internet.

8. You can use the phone without any settings. Just make and answer a call like normal phone.  
The Internet and voice services are provided by service providers, please make sure they provide these services to you.

9. If don't use CPE for a long time, turn off the CPE by pressing the power button until the director light turns off.  
Now your CPE installation is finished. If any problem exists, please refer to the next section on troubleshooting.

## 4. Troubleshooting

If your CPE can't access Internet after the installation, please observe the indicator light of your CPE.

### Indicator light

The indicator lights indicate important information during the use as shown in Table 4-1. Status of major operating parameters, including the wireless signal, network connection and power problems could be detected by those lights.

<b>Power indicator light</b>	
On	CPE is turned on
<b>Signal strength indicator light</b>	
4 lights on	Strong signal
3 lights on	Secondary signal
2 lights on	Medium signal
1 light on	Weak signal
1 light flickering	No signal
<b>System state indicator light</b>	
The light numbers are 1,2,3,4 from Top to Bottom, you can note the light states to your provider, which will be helpful for them to locate the trouble.	

Table 4-1: Indicator lights States

### Frequently asked questions

Problem	Possible Reason	Possible Solution
Power indicator light is off	Something is wrong with the connection of the power adapter.	Check the two ends of the power adapter. make sure it connects to the CPE and AC power socket firmly.
	The AC power socket is power off.	Make sure the power socket is powered on.

Weak or no signal for a long time	Signal coverage is poor.	Rotate the CPE or antenna
		Move the CPE to the place near window or to a higher place.
		Use an optional outdoor antenna for better signal gain.
The computer indicates that it doesn't connect to the internet.	Something is wrong with the connection of the Ethernet line.	Check the two ends of the Ethernet line, and make sure the Ethernet line connects to the CPE and computer firmly.
		Replace the Ethernet line.
The signal is normal and the computer indicates that it connects to the Internet, but actually can't surf the internet.	The network settings are not correct.	Browse the settings provided by your service provider. Make sure that the access method, account, password etc. are correct.
Slow speed	Signal coverage is poor.	Rotate the CPE or antenna
		Move the CPE to the place near window or to a higher place.
		Use an optional outdoor antenna for better signal gain.
Pick up the phone, but there isn't any dial tone.	Something is wrong with the connection of the phone line.	Check the two ends of the phone line, and make sure the phone line connects to the CPE and telephone firmly.
Pick up the phone and there is a dial tone, but can't make or answer a call	Network problem	Contact your service provider

**Note:**

If the solutions listed here can't resolve your problems, please contact your CPE provider.

## 5. CPE Upgrade

CPE upgrades normally in two ways:

1. Upgrade by the radio wave from BS to CPE without any user operation and this cannot happen when the CPE is off.
2. When you get the upgrade information, you may take your CPE to the device provider and their authorized personnel will do the upgrade for you.

## 6. Notes

### Operating environment

- Forbid using CPE in weather conditions prone to thunder and lightning and always pull out the power adapter in such situations.
- Do not use CPE at refueling points and do not use CPE near fuel or chemicals either.
- Cooling is needed when the CPE is running, maintain operating temperatures of +5C to +40C and do not put the CPE and the power accessories at dusty places.
- Don't seal off the CPE or put other things on the CPE.

### Maintenance instructions

- Take care of the CPE and always put it in a clean and dry environment. You can use soft and dry cotton to clean the appearance of the CPE if it's wet.
- Make sure the CPE is off and the external power is cut off before clean it. Use soft and wet cotton without strong chemicals, cleaning agent or detergent to clean the appearance of CPE.
- Don't put the CPE in any environment where the temperature is too high, which will cause its circuit to be damaged.
- Do not disassemble the CPE randomly. Only qualified personnel may repair this product.
- Avoid frequent switching on/off of the CPE.
- Use only the original accessories that are available, otherwise certain functions will be invalidated, CPE damaged, and electric shock or personal injury may occur. Damages caused by using non-original accessories void the warranty for repair or replacement of the CPE.

### Medical devices

- Some wireless device may interfere with certain hearing aids. In the event of such interference you may consult your hearing aid manufacturer to discuss alternatives.
- When you are around most medical devices, switch off the CPE and obey all rules or instructions involved with their operation.