

Gemtek 4G Wi-Fi Spot

User Manual



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About this Manual

Purpose

This document provides information and procedures on installation and configuration of WiMAX/Wi-Fi Portable Router. You could utilize the theoretical information in this guide to setup your device.

Conventions Used in this Document

The following typographic conventions and symbols are used throughout this document:

	Very important information. Failure to observe this may result in damage.
	Important information that should be observed.
	Additional information that may be helpful but which is not required.

bold	Menu commands, buttons and input fields are displayed in bold
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Chapter 1 – Introduction

Product Overview

Thank you for choosing WiMAX/Wi-Fi Portable Router. Compliant with 802.16-2005 WiMAX standard, WiMAX/Wi-Fi Portable Router is a comprehensive device which can connects to WiMAX network and also provides Wi-Fi connectivity for multiple users.

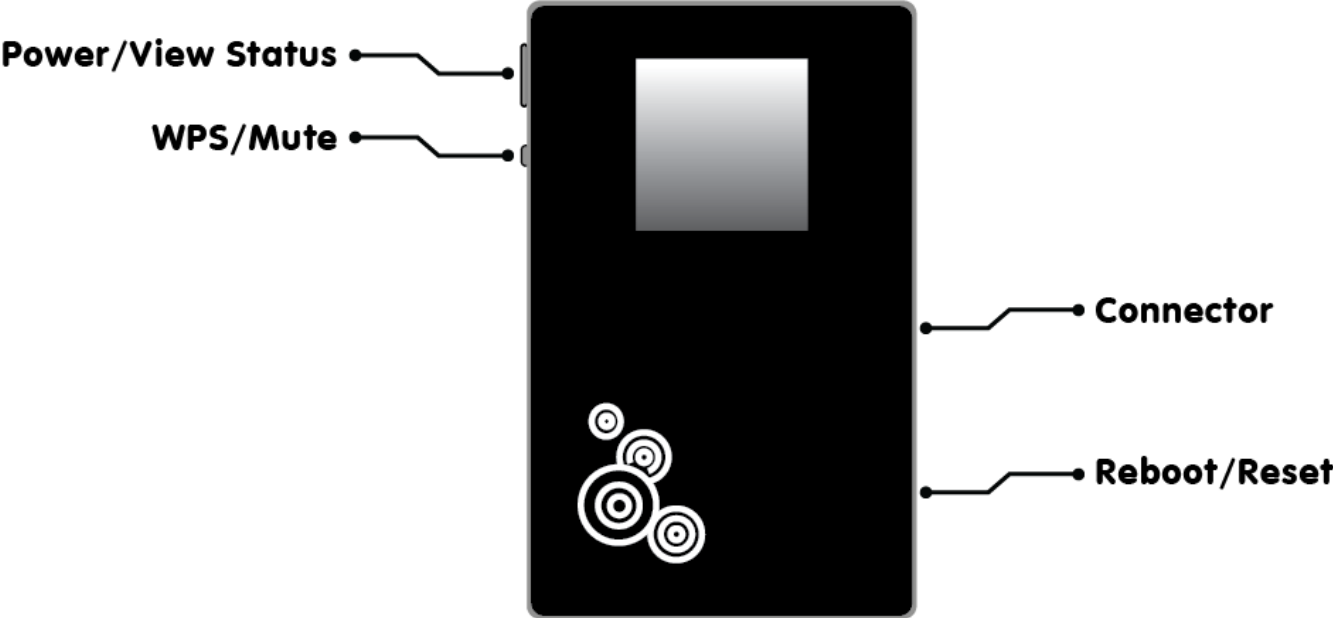
Product Package

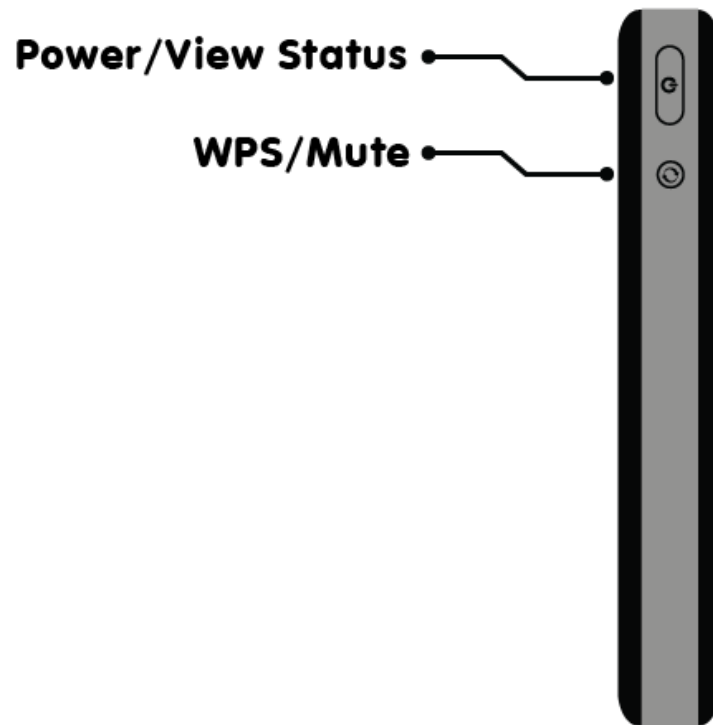
	Item	Qty
1	WiMAX/Wi-Fi Portable Router	1
2	User Manual	1
3	Power Adapter	1
4	USB cable	1
5	Battery	1



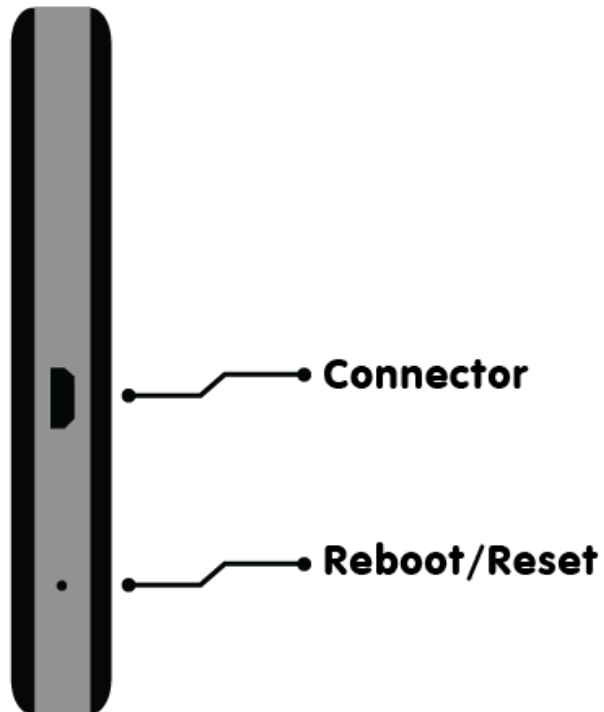
If any of the items mentioned above are missing or damaged, please contact our customer support immediately.

Connector and Buttons



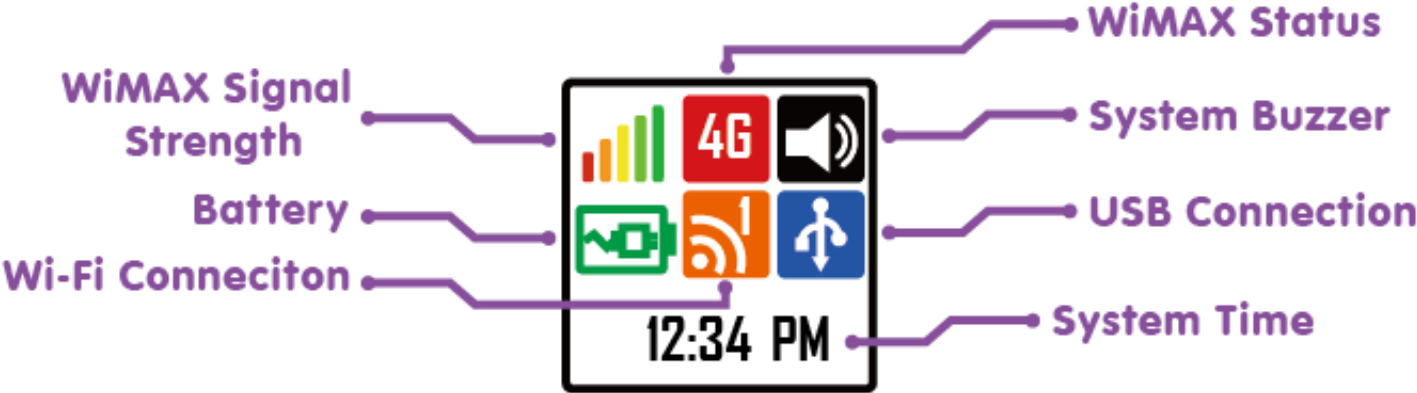







1. **Power Button:** Press and hold the **Power** button for **3 seconds** to power on or power off the device.
2. **View Status:** Shortly press the **Power** button to view the device status. (Including WiMAX Status, Wi-Fi connection Status and System Status)
3. **WPS Button:** Press **WPS** button to establish wireless connection without setup the device.
 - Step1: Press the **WPS** button on Zoom, and the WPS LED indicator will start flashing.
 - Step2: And then press the **WPS** button on the client you wish to connect within 2 minutes.
4. **Mute:** Shortly press the **WPS** button to mute the buzzer.















- 5. Reboot/Reset Button:** Press and hold the **Reboot/Reset** button for **less than 5 seconds** to reboot the device. Or press and hold the **Reboot/Reset** button for **more than 5 seconds** to reset the device to factory default.
- 6. USB Port:** This port is to connect your device with a PC or charge the built-in battery.

LCD Display



	Display the WiMAX Signal Strength when the device is connected with WiMAX service.
	WiMAX Status, you can view the device WiMAX connection status by shortly press the power button once.
	This icon appears when the system buzzer sound is enabled.
	Battery charging, this icon appears when the device is connected with PC by using USB cable.
	Display the battery status.

	This icon appears when the device is connected with PC through USB cable.
	Display the Wi-Fi connectivity which you can know that how many users are currently connected with your device through Wi-Fi connection. (A device only allows eight Wi-Fi connections)
12:34 PM	Display the system time when the device is connected with WiMAX service.

<p>System Startup</p> 	<p>WiMAX Status</p> 	<p>Wi-Fi Connection Status</p> 	<p>System Status</p> 
<p>Hibernate Mode</p> 	<p>Standby Mode</p> 	<p>Low Battery</p> 	<p>Reset Default</p> 
<p>Reboot</p> 	<p>Power Down</p> 		

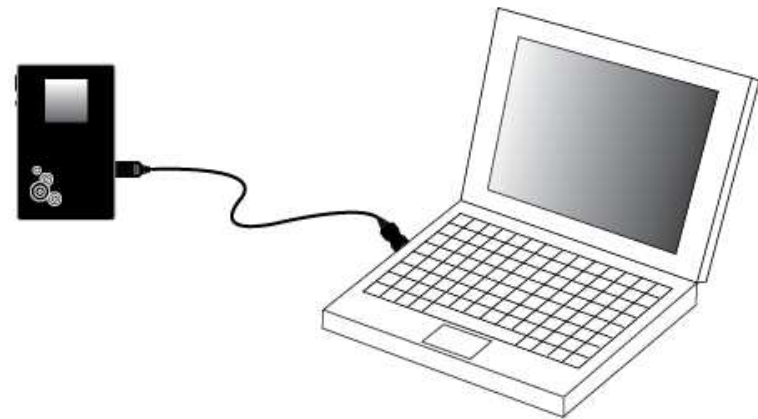
Chapter 2 – Installation

Install through USB Cable & Connect to Service

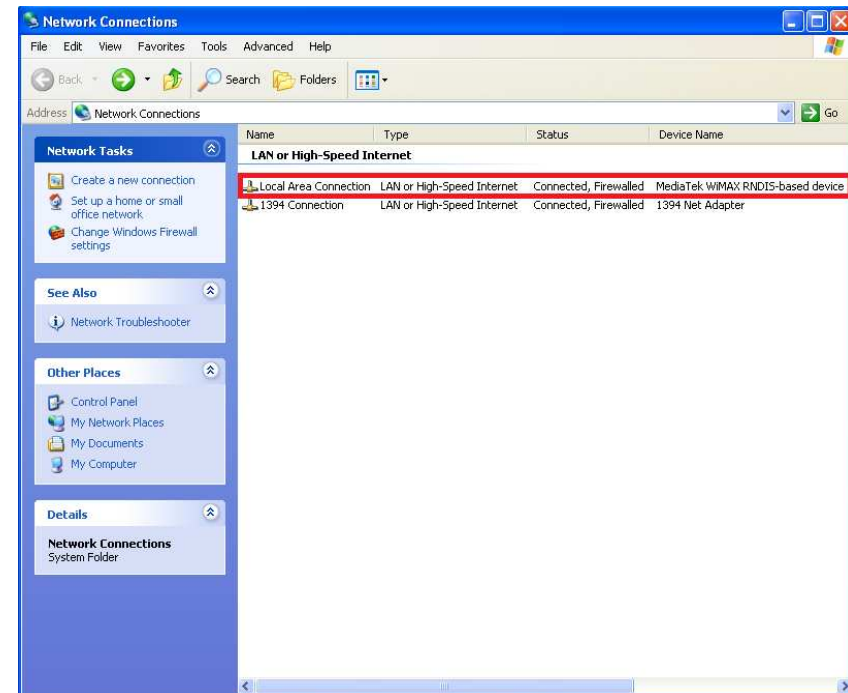
Please follow the steps below to install the device:

Step1: Connect the device to your PC with a USB cable provided.

Step2: Windows will automatically install the device driver after you plug in the USB cable.



Step3: Launching the Windows **Network Connections** window by right click on **My Network Places** and select **Properties**. The driver has been installed successfully if there is a new **Local Area Connection** with Device Name, **MediaTak WiMAX RNDIS-based device**, is appeared.



Step4: Now you can start browsing the Internet or configure your device by opening the web browser and entering the default IP address of the device:

<http://192.168.15.1/>

(The default password is “**admin**”.)

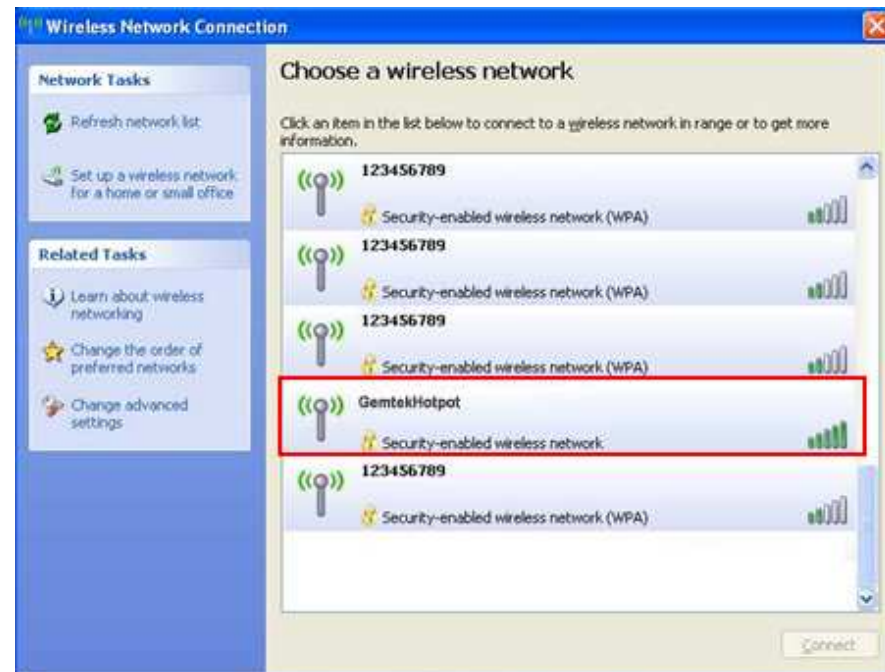


Connect to service with Wi-Fi

Step1: You could connect to the service without installation through Wi-Fi connection.



Step2: Launching the Windows **Wireless Network Connection**, search for the device name (SSID) from the network list and connect to the device. The default SSID is “**GemtekHotspot**”.



Step3: Select **Wireless Network Connection Status** from the Windows task bar. The **Status** would show **“Connected”** once the Wi-Fi connection is established.



Step4: Now you can start browsing the Internet or configure your device by opening the web browser and entering the default IP address of the device:

<http://192.168.1.1/>

(The default password is “**admin**”.)



How to Setup Wireless Security

The device equipped with WEP, WPA PSK, WPA2PSK and WPA-WPA2-Mixed PSK standards. To enable or change security settings, you could click **Wi-Fi Setting > Basic** tab on the web interface, and you would need to determine which standard and key you would like to use.

The screenshot displays the Gemtek web interface for configuring wireless security. The main header includes the Gemtek logo and the slogan "Wireless Broadband Anywhere". Navigation tabs for "Basic", "Advanced", and "WPS" are visible, with "Basic" being the active tab. The "Wi-Fi Settings" section is expanded, showing a list of configuration options: "Wireless Settings" (checked), "Network Name (SSID1)" (GemtekHotspot), "SSID Suppress" (Disable), "Authentication" (WPA2 PSK), "Encryption" (TKIP), "Password Type" (ASCII), and "Password" (1234567890). At the bottom right of the settings area, there are "Undo" and "Apply" buttons. A left-hand sidebar provides navigation options: Personalize, Internet, **Wi-Fi Settings**, Local Address, Port Forwarding, Control Panel, Status, and Engineering. At the bottom of this sidebar are three buttons: REBOOT, LOGOUT, and RECONNECT.

Chapter 3 – Reference Manual

The main menu is located at the left side of the screen and each main menu item contains sub-items on the top right of the screen.

You can refer to the menu structure is given below:

Menu Items	Sub Items	Menu Items	Sub Items	Menu Items	Sub Items
Personalize	Password Device Time Device Name Restore To Factory	Local Address	DHCP Server Lease Status Lease Reservation	Status	WiMAX Status Device Status
Internet	WiMAX Security Internet Protocol Firewall Dynamic DNS	Port forwarding	Basic Forwarding	Engineering	WMX Config DEV Config Status DM Settings
Wi-Fi Settings	Basic Advanced WPS	Control Panel	Software Certificate System Power Management LCD Management System Buzzer About	Reboot Logout Reconnect	



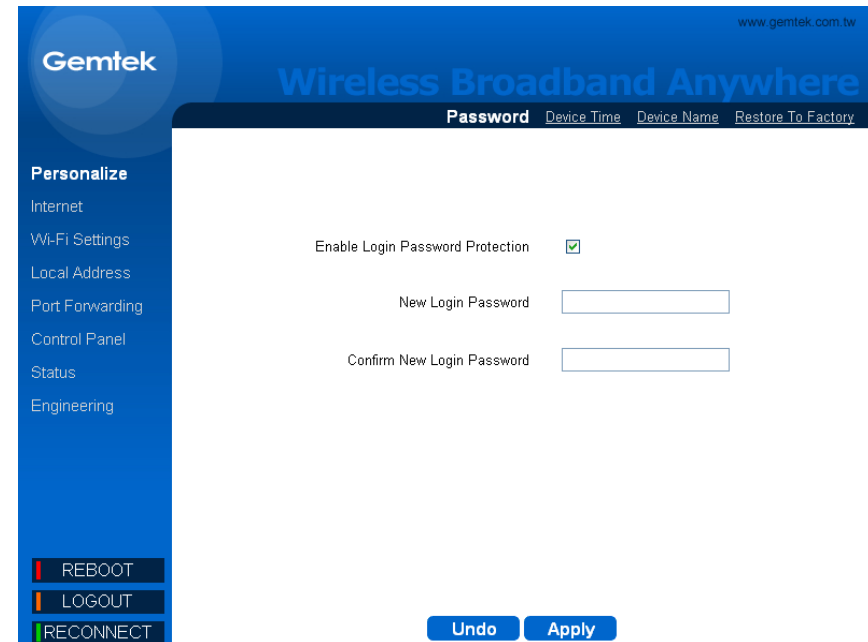
Please click **Apply button** every time the settings are changed.

Personalize

Personalize | Password

Select **Personalize > Password** to enable or disable the password protection for the device. You can also change the existing password on this sub-menu.


- **Enable Login Password Protection:** If this option is enabled, you have to enter the password every time you connect to the device.
- **New Login Password:** Enter a new password. (The new password can contain 64 bytes ASCII code and it is case sensitive.)
- **Confirm New Login Password:** Re-enter the new password to confirm.
- **Undo button:** Click the **Undo** button to clear the data on this window.




The screenshot displays the Gemtek web interface for configuring the device's password. The header includes the Gemtek logo, the slogan "Wireless Broadband Anywhere", and the URL "www.gemtek.com.tw". A navigation bar contains links for "Password", "Device Time", "Device Name", and "Restore To Factory". The left sidebar lists menu items: "Personalize", "Internet", "Wi-Fi Settings", "Local Address", "Port Forwarding", "Control Panel", "Status", and "Engineering". At the bottom of the sidebar are buttons for "REBOOT", "LOGOUT", and "RECONNECT". The main content area shows the "Password" configuration page with the following elements:

- "Enable Login Password Protection" with a checked checkbox.
- "New Login Password" with an empty text input field.
- "Confirm New Login Password" with an empty text input field.
- "Undo" and "Apply" buttons at the bottom right.

- **Apply button:** The changes that you have made to this window can be saved in the device by clicking the **Apply** button.

	<p>Forgot your password?</p> <p>Press and hold the Reboot/Reset button for more than 5 seconds to reset the device to factory default. (please see “Connector and Buttons” section in CHAPTER 1 of this document to find the location of this button on the device)</p>
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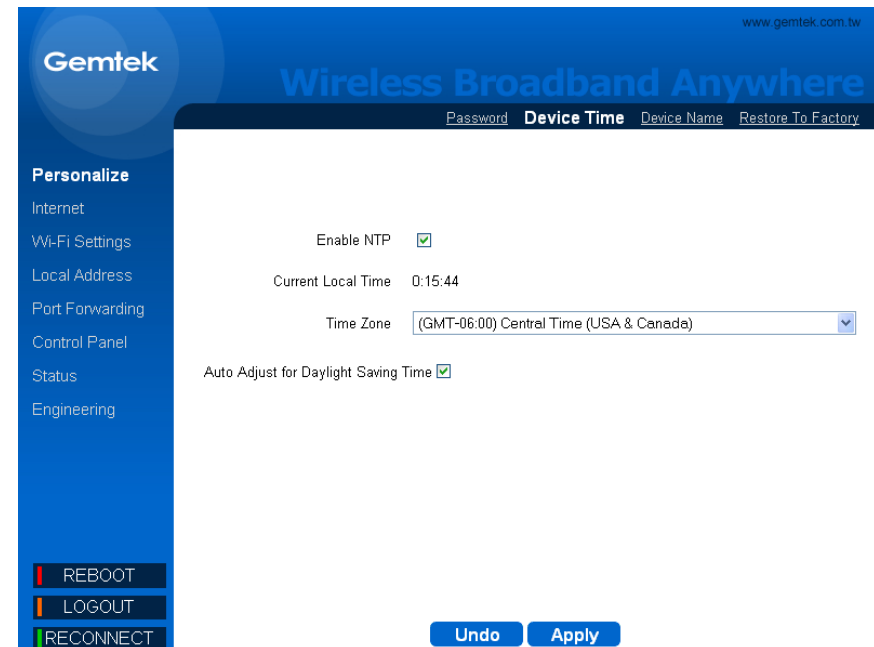
	<p>Factory default password?</p> <p>The factory default password is admin.</p>
---	--

	<p>We strongly recommend you to change the login credential for device security.</p>
---	--

Personalize | Device Time

Select **Personalize > Device Time** to set the time zone.

- **Enable NTP:** Check this option to enable **NTP** (Network Time Protocol) to ensure that all computers on the network use the same time.
- **Current Local Time:** Display current local time.
- **Time Zone:** Select the proper time zone for your location on the drop down menu.
- **Auto Adjust for Daylight Saving Time:** Please enable this option if your location observes Daylight Savings Time.
- **Undo button:** Click the **Undo** button to clear the data on this window.
- **Apply button:** The changes that you have made to this window can be saved in the device by clicking the **Apply** button.



Personalize | Device Name

Select **Personalize > Device Name** to define a specific name for your device, so that you can login to this device from any PC on your internal network by entering the device name on the address bar. The default, the device name is **WiMaxCPE**.

- **Device Name:** Display the current device name.
- **New Device Name:** Enter a new name for your device (Maximum 20 ASCII Printable Characters allowed).
- **Undo button:** Click the **Undo** button to clear the changes that you have made on this window.
- **Apply button:** The changes that you have made on this window can be saved in the device by clicking the **Apply** button.

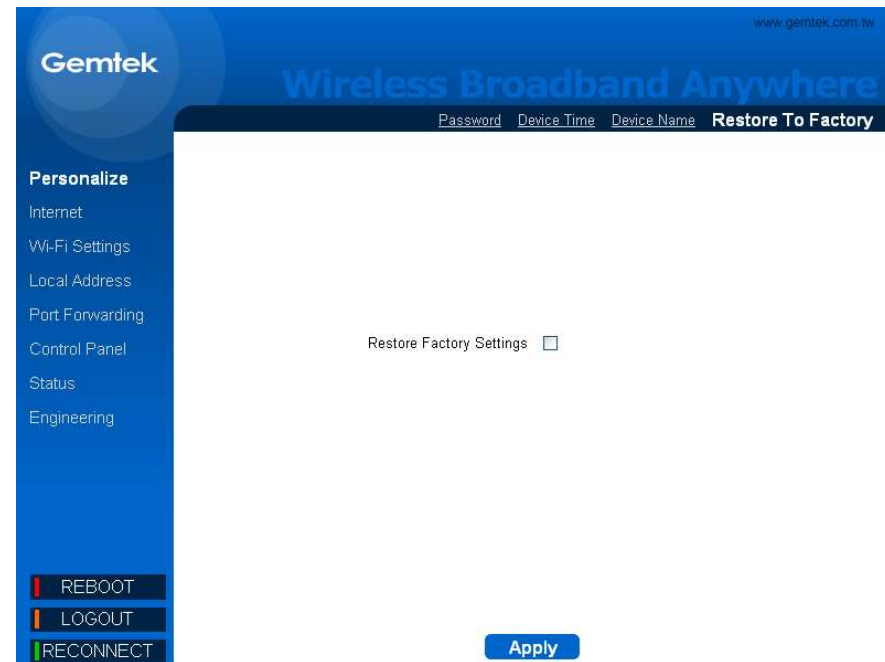
The screenshot shows the Gemtek 4G Wi-Fi Spot web interface. The header includes the Gemtek logo, the slogan "Wireless Broadband Anywhere", and the website URL "www.gemtek.com.tw". A navigation bar contains links for "Password", "Device Time", "Device Name" (which is highlighted), and "Restore To Factory".

The main content area is titled "Personalize" and contains a sidebar menu with the following options: Internet, Wi-Fi Settings, Local Address, Port Forwarding, Control Panel, Status, and Engineering. The "Device Name" configuration section displays the "Current Device Name" as "WiMaxCPE" and a "New Device Name" input field. At the bottom of the page, there are three buttons: "REBOOT", "LOGOUT", and "RECONNECT" (located in the sidebar), and "Undo" and "Apply" (located at the bottom right of the configuration area).

Personalize | Restore To Factory

Select **Personalize > Restore To Factory** to clear all users' configuration and restore to factory default settings.

- **Restore Factory Settings:** Check this checkbox and click the **Apply** button to reset the device settings to factory default.



Internet

Internet | WiMAX Security

Select **Internet** > **WiMAX Security** to setup the security method.

- **Authentication Method:** Select the authentication protocol, **EAP-TTLS-MACHAPV2**, **EAP-TLS** or **None**.
- Please enter the username and password if you select **EAP-TTLS-MACHAPV2**.
- The username and password will not be required if you selected EAP-TLS, which is the default setting.
- No input is needed if you select **NONE**.
- **Undo button:** Click the **Undo** button to clear the changes that you have made on this window.

The screenshot displays the Gemtek web interface for configuring WIMAX Security. The header includes the Gemtek logo and the slogan 'Wireless Broadband Anywhere'. The navigation menu on the left lists various settings, with 'Internet' currently selected. The main configuration area is titled 'WIMAX Security' and contains the following elements:

- Authentication Method:** A dropdown menu set to 'EAP-TTLS-MSCHAPV2'.
- User Name:** An empty text input field.
- Password:** An empty text input field.
- Password Confirmation:** An empty text input field.
- Buttons:** 'Undo' and 'Apply' buttons at the bottom right.
- Footer:** 'REBOOT', 'LOGOUT', and 'RECONNECT' buttons at the bottom left.

- **Apply button:** The changes that you have made on this window can be saved in the device by clicking the **Apply** button.

Internet | Internet Protocol

Select **Internet > Internet Protocol** to configure the internet protocol.

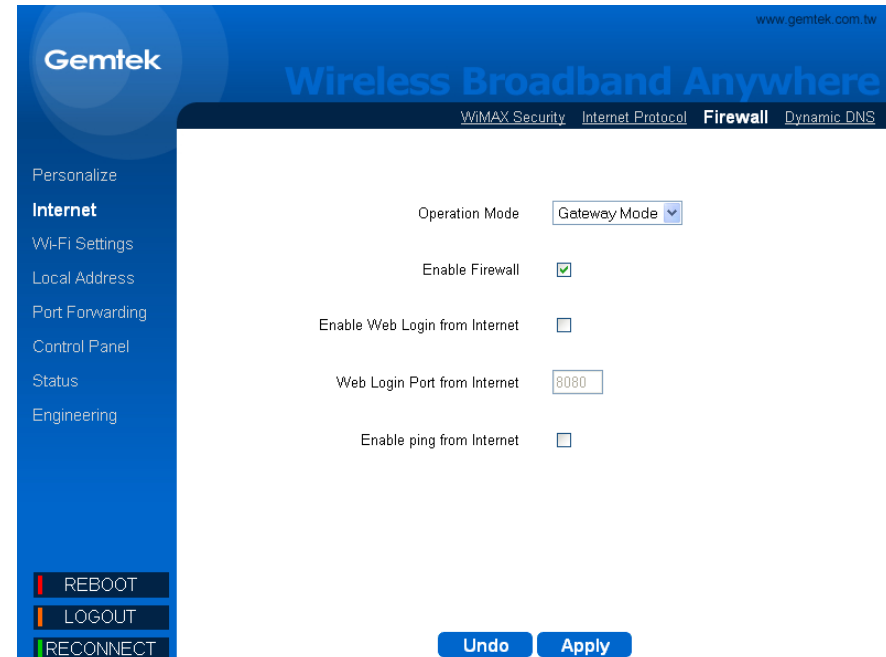
- **Connection Mode:** Display the current connection mode of device with the WiMAX network.
- **Host Name:** Enter the host name provided by your service provider (optional).
- **Undo:** Click the **Undo** button to clear the changes that you have made on this window.
- **Apply:** The changes that you have made on this window can be saved in the device by clicking the **Apply** button.

The screenshot shows the Gemtek web interface for configuring the Internet Protocol. The page has a blue header with the Gemtek logo and the slogan "Wireless Broadband Anywhere". Below the header, there are navigation links for "WiMAX Security", "Internet Protocol" (which is highlighted), "Firewall", and "Dynamic DNS". On the left side, there is a vertical menu with options: "Personalize", "Internet" (highlighted), "Wi-Fi Settings", "Local Address", "Port Forwarding", "Control Panel", "Status", and "Engineering". At the bottom of this menu are three buttons: "REBOOT", "LOGOUT", and "RECONNECT". The main content area displays the "Internet Protocol" configuration form. It includes a "Connection Mode" dropdown menu set to "DHCP" and a "Host Name" text input field. At the bottom right of the form are two buttons: "Undo" and "Apply".

Internet | Firewall

Select **Internet > Firewall** to configure the built-in firewall feature of the device. The firewall feature can be used to block unauthorized access while allowing only the authorized connections from the Internet. This feature also allows the device to be managed over the Internet by authorized personnel.

- **Operation Mode:** Display the operation mode of firewall.
- **Enable Firewall:** Click the checkbox to enable device firewall.
- **Enable Web Login from Internet:** Enabling this option will allow you to access the device from other networks.
- **Web Login Port from Internet:** Define a specific port number for security access control (Matches numbers in range of 0 through 65536).



- **Enable ping from internet:** The device will respond to a ping request from the internet if this option is enabled.
- **Undo:** Click the **Undo** button to clear the changes that you have made on this window.
- **Apply:** The changes that you have made on this window can be saved in the device by clicking the **Apply** button.

Internet | Dynamic DNS

Select **Internet > Dynamic DNS** to configure the DDNS settings. (The device only provides the listed DNS service providers.)

- **User:** Enter the username provided by your DNS service provider.
- **Password:** Enter the password provided by your DNS service provider.
- **Host:** Enter the host provided by your DNS service provider.
- **Enable:** Enable the DNS service provider by checking this checkbox.
- **Undo:** Click the **Undo** button to clear the changes that you have made on this window.

www.gemtek.com.tw

Gemtek Wireless Broadband Anywhere

WIMAX Security Internet Protocol Firewall **Dynamic DNS**

Personalize
Internet
 Wi-Fi Settings
 Local Address
 Port Forwarding
 Control Panel
 Status
 Engineering

Name	User	Password	Host	Enable
regfish	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
dyndns	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
hn	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
zo	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
changeip	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
noip	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
ods	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
ovh	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
eurodyndns	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

REBOOT LOGOUT RECONNECT

Undo Apply

- **Apply:** The changes that you have made on this window can be saved in the device by pressing the **Apply** button.

Wi-Fi Settings

Wi-Fi Settings | Basic

Select **Wi-Fi Settings > Basic** to configure the basic Wi-Fi settings.

- **Wireless Settings:** Enable or disable the Wi-Fi interface by clicking on this checkbox.
- **Network Name (SSID):** Define the service set identifier that represents the “name” of your network. (the default SSID is “GmetekHotspot”)
- **SSID Suppress:** Enable or disable suppression of SSID broadcasting.
- **Authentication:** Select the Wi-Fi security method.
- **Encryption:** Select the Wi-Fi encryption algorithm.
- **Password Type:** Select the Wi-Fi password type.

The screenshot displays the Gemtek web interface for configuring wireless settings. The main content area is titled 'Wireless Broadband Anywhere' and includes tabs for 'Basic', 'Advanced', and 'WPS'. The 'Basic' tab is active, showing the following settings:

- Wireless Settings:**
- Network Name (SSID):**
- SSID Suppress:**
- Authentication:**
- Encryption:**
- Password Type:**
- Password:**

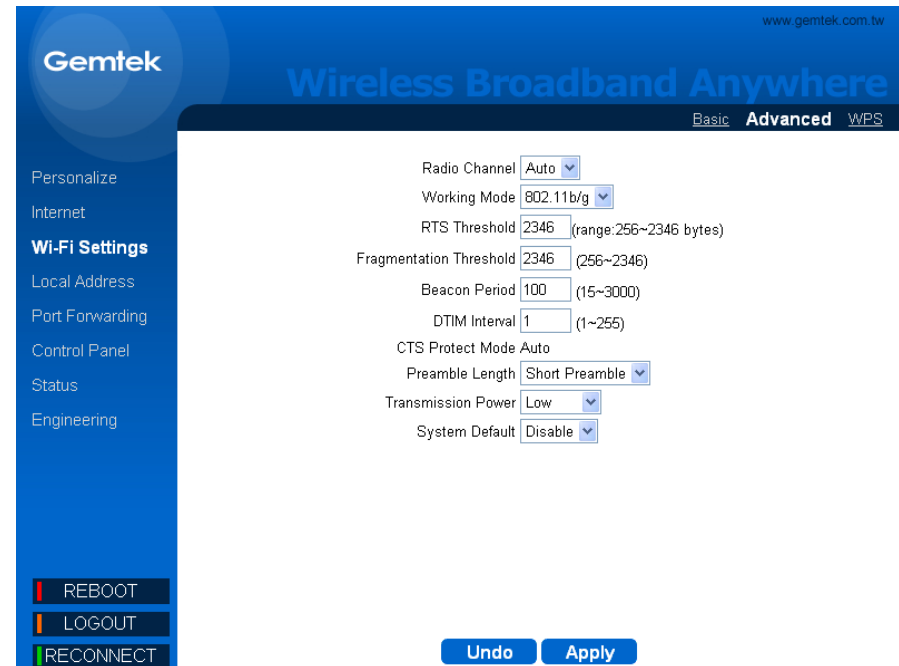
At the bottom of the settings area, there are two buttons: 'Undo' and 'Apply'. On the left side, a navigation menu lists various system functions, with 'Wi-Fi Settings' highlighted. At the bottom of this menu are three buttons: 'REBOOT', 'LOGOUT', and 'RECONNECT'.

- **Password:** Enter the password for your Wi-Fi service, the default is “**1234567890**”.
- **Undo:** Click the **Undo** button to clear the changes that you have made on this window.
- **Apply:** The changes that you have made on this window can be saved in the device by clicking the **Apply** button.

Wi-Fi Settings | Advanced

Select **Wi-Fi Settings > Advanced** to configure the advanced Wi-Fi settings.

- **Radio Channel:** Select the appropriate channel for your Wi-Fi network.
- **Working Mode:** Select the wireless operation mode for your Wi-Fi network. (The selection contains 802.11b/g, 802.11b only and 802.11g only)
- **RTS Threshold:** Specify the packet size threshold of the device by changing the request-to-send (RTS) value. (Range : 256 to 2432)
- **Fragmentation Threshold:** Define the maximum frame size can be transmitted without fragmenting the frame.
- **Beacon Period:** Define the amount of time between access point beacons.



- **DTIM Interval:** Define the Delivery Traffic Indication Message Interval which specifies the data beacon rate between 1 and 255.
- **CTS Protection Mode:** Set **Clear to send (CTS) protection mode** to **Auto** to ensure that the computers on a network can connect to a wireless router when many communication devices are present.
- **Preamble Length:** Define the length of preamble, either short or long.
- **Transmission Power:** Select the Wi-Fi transmit power from the drop down menu.
- **System Default:** Select the filter action for the device access control.
 - ◆ **Disable:** Select disable to disable access control (ACL) feature.

◆ **Allow:** To create a MAC filter list for allowing the specific clients to have access to the wireless network.

- ▶ **Insert Button:** Click Insert to add MAC address (up to 10) to the list.
- ▶ **Del Button:** Click Del to remove MAC address from the list.

◆ **Deny:** To create a MAC filter list for blocking the specific clients to have access to the wireless network.

- ▶ **Insert Button:** Click Insert to add MAC address (up to 10) to the list.
- ▶ **Del Button:** Click Del to remove MAC address from the list.

System Default **Allow** ▼

Insert

No.	MAC	Delete
1	<input type="text"/>	Del
2	<input type="text"/>	Del
3	<input type="text"/>	Del
4	<input type="text"/>	Del
5	<input type="text"/>	Del
6	<input type="text"/>	Del
7	<input type="text"/>	Del
8	<input type="text"/>	Del
9	<input type="text"/>	Del
10	<input type="text"/>	Del

System Default **Deny** ▼

Insert

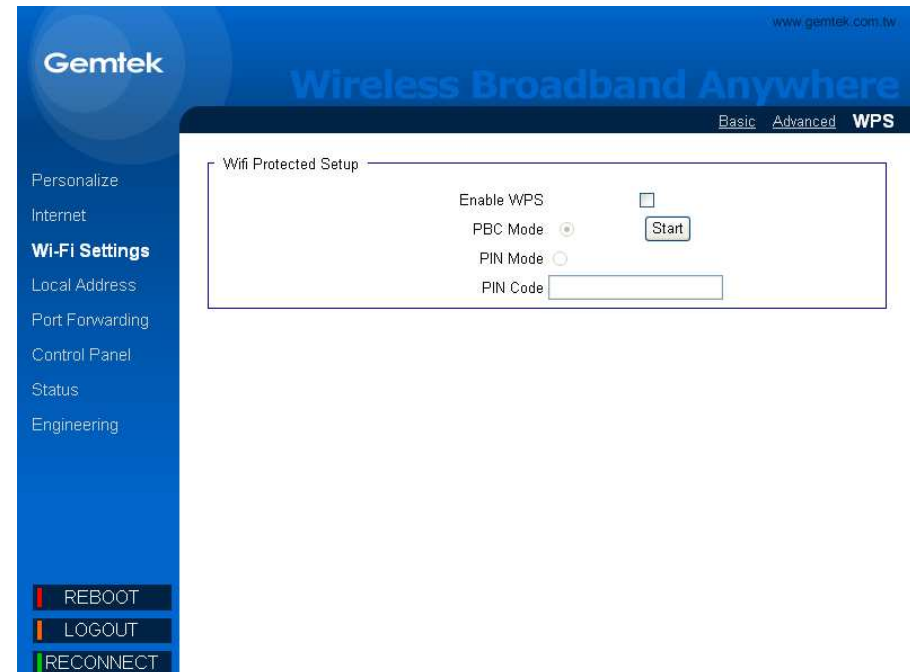
No.	MAC	Delete
1	<input type="text"/>	Del
2	<input type="text"/>	Del
3	<input type="text"/>	Del
4	<input type="text"/>	Del
5	<input type="text"/>	Del
6	<input type="text"/>	Del
7	<input type="text"/>	Del
8	<input type="text"/>	Del
9	<input type="text"/>	Del
10	<input type="text"/>	Del

- **Undo:** Click the **Undo** button to clear the changes that you have made on this window.
- **Apply:** The changes that you have made on this window can be saved in the device by clicking the **Apply** button.

Wi-Fi Settings | WPS

Select **Wi-Fi Settings > WPS** to configure the Wi-Fi Protected Setup.

- **Enable WPS:** Enable or disable the WPS by clicking on this checkbox.
- **PBC Mode:** Select this radio button and click on **Start button** to setup WPS on your device and then start WPS on the client which you would like to connect with your device within 2 minutes.
- **PIN Mode:** Select this radio button and enter Client **PIN code** which you would like to connect with your device to start WPS on the client.



Local Address

Local Address | DHCP Server

Select **Local Address > DHCP Server** to configure the internal DHCP server settings. This device has a built-in DHCP server that can be used for managing the allotment of IP address for the devices connected to the **LAN** Port of the device.

- **Enable DHCP Server:** Enable DHCP Server by clicking on the checkbox.
- **DHCP Server IP address:** Enter the DHCP server IP address.
- **DHCP Starting IP address/ DHCP Ending IP address:** Define the IP address range shall be supported by the DHCP server.
- **DHCP Lease Time:** Specify the IP address renewal time.

The screenshot displays the Gemtek DHCP Server configuration interface. The page title is "Wireless Broadband Anywhere" and the sub-page is "DHCP Server". The left sidebar contains navigation options: Personalize, Internet, Wi-Fi Settings, Local Address (selected), Port Forwarding, Control Panel, Status, and Engineering. At the bottom of the sidebar are buttons for REBOOT, LOGOUT, and RECONNECT. The main content area shows the following settings:

- Enable DHCP Server:
- DHCP Server IP Address: 192 . 168 . 15 . 1
- DHCP Starting IP Address: 192 . 168 . 15 . 2
- DHCP Ending IP Address: 192 . 168 . 15 . 254
- DHCP Lease Time: 1 hour 0 minute 0 second

At the bottom right, there are buttons for "Undo" and "Apply".

- **Undo:** Click the **Undo** button to clear the changes that you have made on this window.
- **Apply:** The changes that you have made on this window can be saved in the device by clicking the **Apply** button.

Local Address | Lease Status

Select **Local Address > Lease Status** to view the current status of client host PC such as host name, host PC's MAC address, IP address, and remaining lease time

- **Refresh:** Click the **Refresh** button to display the updated information of the client host PC.
- **Auto:** Click the **Auto** button to refresh the information automatically.

The screenshot shows the Gemtek management interface. The top header includes the Gemtek logo, the slogan "Wireless Broadband Anywhere", and the URL "www.gemtek.com.tw". Below the header, there are navigation links for "DHCP Server", "Lease Status" (which is highlighted), and "Lease Reservation".

A left-hand navigation menu contains the following items: Personalize, Internet, Wi-Fi Settings, **Local Address** (highlighted), Port Forwarding, Control Panel, Status, and Engineering. At the bottom of this menu are three buttons: REBOOT, LOGOUT, and RECONNECT.

The main content area displays a table with the following data:

Client Host Name	MAC Address	IP Address	Remaining Lease Duration
gemtek	00:01:02:03:04:05	192.168.15.15	3551 second

At the bottom right of the interface, there are two buttons: "Refresh" and "Auto".

Local Address | Lease Reservation

Select **Local Address > Lease Reservation** to assign the specific IP addresses to the specific client device connected to the **LAN** port.

- **Add button:** Click the **Add** button to insert lease reservation information.
- **Del button:** Click the **Del** button to delete the selected lease reservation information. Before clicking **Del**, one or more information items must be selected by selecting the checkbox on the **Select** column of the table.
- **Undo:** Click the **Undo** button to clear the changes that you have made on this window.
- **Apply:** The changes that you have made on this window can be saved in the device by clicking the **Apply** button.

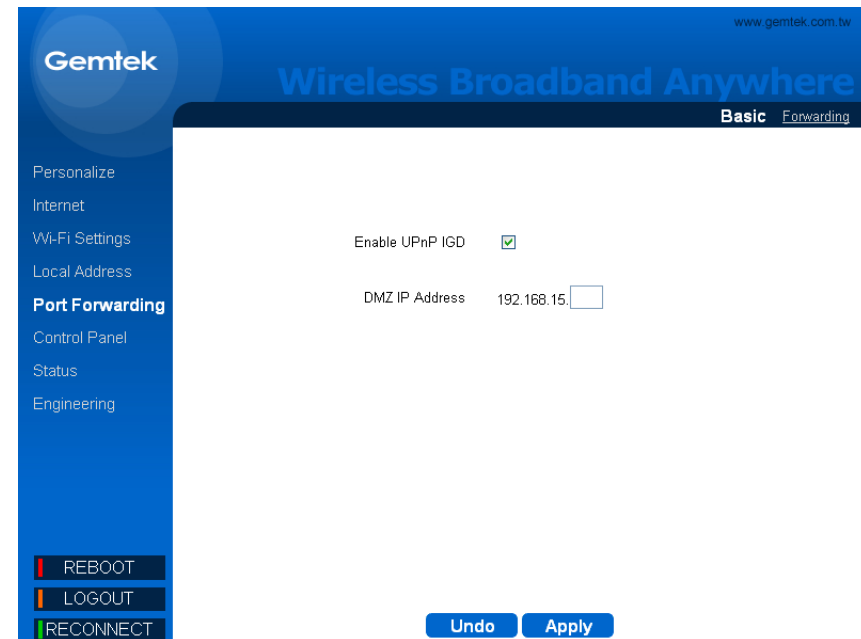


Port Forwarding

Port Forwarding | Basic

Select **Port Forwarding > Basic** to forward the network traffic to specific hosts based on the protocol and port number. It is used to play Internet games or provide local services (such as web hosting) for a LAN group.

- **Enable UPnP IGD:** When this option is enabled, certain Windows applications would setup the port forwarding rule dynamically.
- **DMZ IP Address:** The IP address of DMZ should be entered here.
- **Undo:** Click the **Undo** button to clear the changes that you have made on this window.
- **Apply:** The changes that you have made on this window can be saved in the device by clicking the **Apply** button.



Port Forwarding | Forwarding

Select **Port Forwarding > Forwarding** to manage the additional port forwarding rules.

- **Add:** Click the **Add** button to insert new port forwarding rule. When adding a new port forwarding rule, please select TCP or UDP, and then enter port and IP information such as WAN port range, LAN IP address, and LAN port range.
- **Del:** Click the **Del** button to delete the selected port forwarding rule.
- **Undo:** Click the **Undo** button to clear the changes that you have made on this window.
- **Apply:** The changes that you have made on this window can be saved in the device by clicking the **Apply** button.

The screenshot shows the Gemtek web interface for configuring port forwarding. The page title is "Wireless Broadband Anywhere" and the current page is "Basic Forwarding". The left sidebar contains navigation options: Personalize, Internet, Wi-Fi Settings, Local Address, Port Forwarding (selected), Control Panel, Status, and Engineering. At the bottom of the sidebar are buttons for REBOOT, LOGOUT, and RECONNECT. The main content area features a table for port forwarding rules and a set of action buttons.

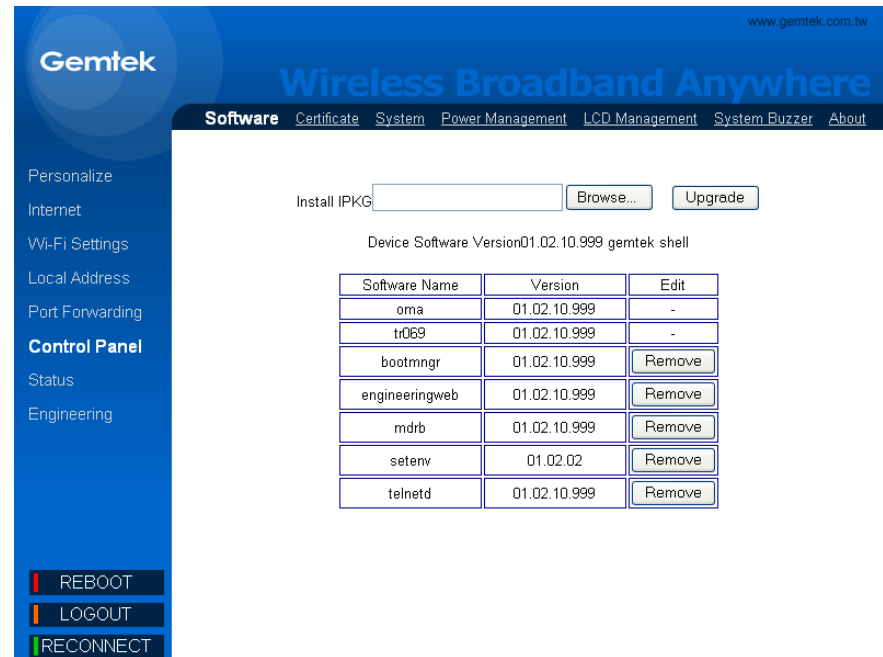
Select	Protocol	WAN Port		LAN IP	Enabled
		Begin	End		

Below the table are four buttons: Add, Del, Undo, and Apply.

Control Panel

Control Panel | Software

Select **Control Panel > Software** to manage the software of your device. Click **Browse** to select the IPKG file, and then click **Upgrade** to install the selected IPKG. Or click the **Remove** button to delete the IPKG file.



Control Panel | Certificate

Select **Control Panel** > **Certificate** to modify the device certificates. Click **Browse** to select the certificate file, and then click **Upgrade** to install the selected certificate.

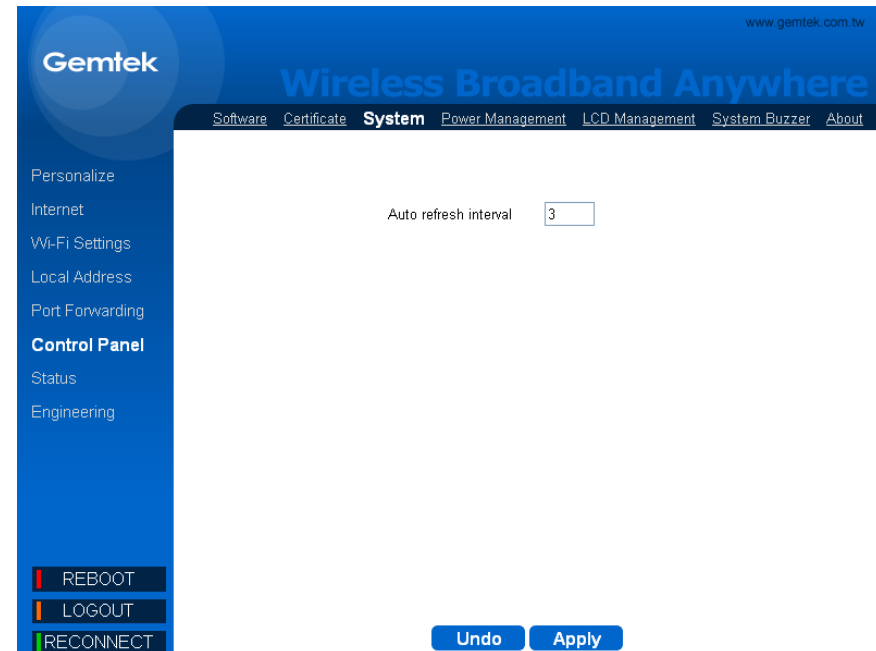
The screenshot shows the Gemtek control panel interface. The top navigation bar includes 'Software', 'Certificate', 'System', 'Power Management', 'LCD Management', 'System Buzzer', and 'About'. The left sidebar lists various settings: Personalize, Internet, Wi-Fi Settings, Local Address, Port Forwarding, Control Panel (highlighted), Status, and Engineering. At the bottom of the sidebar are buttons for REBOOT, LOGOUT, and RECONNECT. The main content area is titled 'Device Certificate' and contains a form with fields for Serial Number, Issued to, Issued by, and Expiry Date. Below the form is a 'Certificate Import Path' field with 'Browse...' and 'Upgrade' buttons. A table titled 'Root CA Certificate' lists existing certificates with columns for Serial Number, Issued to, Issued by, Expiry-Date, Type, and Edit.

Root CA Certificate					
Serial Number	Issued to	Issued by	Expiry-Date	Type	Edit
01A5A658F8D3456	WiMAX Forum(R)	WiMAX Forum(R)	12/31/2010	factory	-
15EAF256B321990	WiMAX Forum(R)	WiMAX Forum(R)	12/31/2049	factory	-
6306729A728CBD6	WiMAX Forum(R)	WiMAX Forum(R)	12/31/2049	factory	-
C58DE6DCAA7297A	WiMAX Forum(R)	WiMAX Forum(R)	01/03/2053	factory	-

Control Panel | System

Select **Control Panel > System** to define the system Auto refresh interval in second.

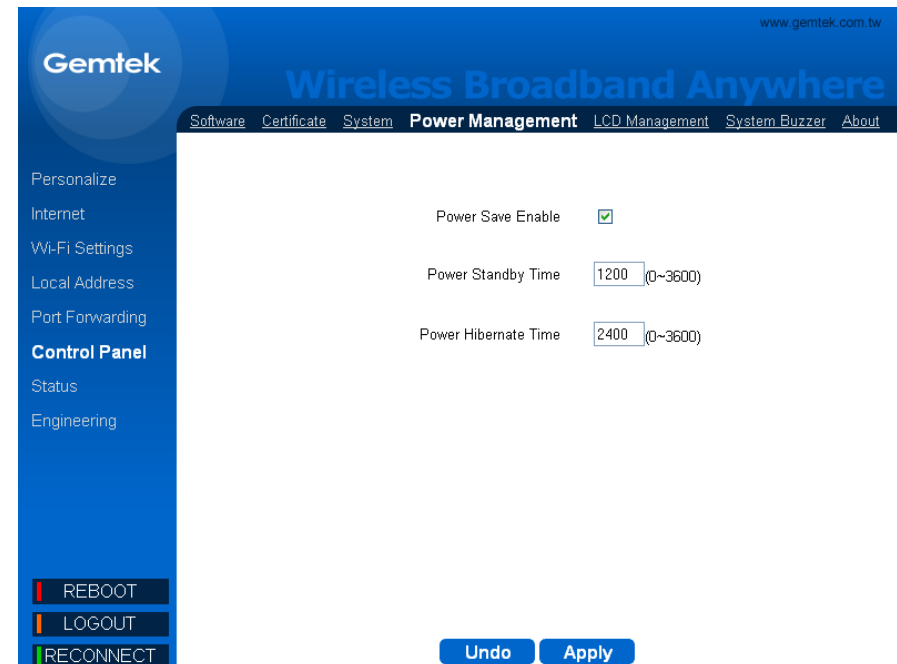
- **Undo:** Click the **Undo** button to clear the changes that you have made on this window.
- **Apply:** The changes that you have made on this window can be saved in the device by clicking the **Apply** button.



Control Panel | Power Management

Select **Control Panel > Power Management** to help you manage your device battery power.

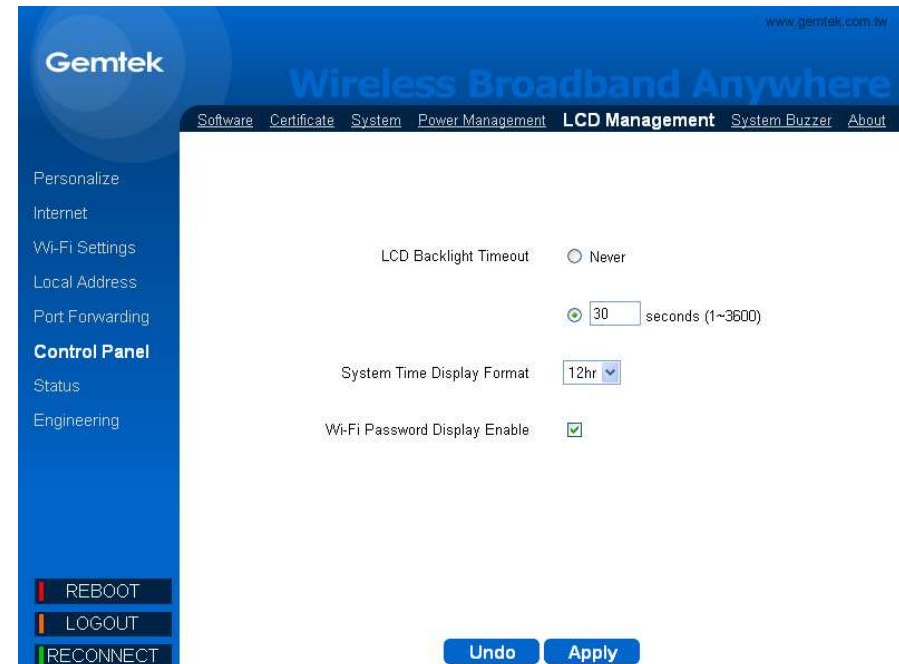
- **Power Save Enable:** Enable this option to help conserve power when using your device's built-in battery.
- **Power Standby time:** Enter the number of seconds that your device will go into standby mode.
- **Power Hibernate time:** Enter the number of seconds that your device will go into hibernate.
- **Undo:** Click the **Undo** button to clear the changes that you have made on this window.
- **Apply:** The changes that you have made on this window can be saved in the device by clicking the **Apply** button.



Control Panel | LCD Management

Select **Control Panel > LCD Management** to help you manage your device LCD display.

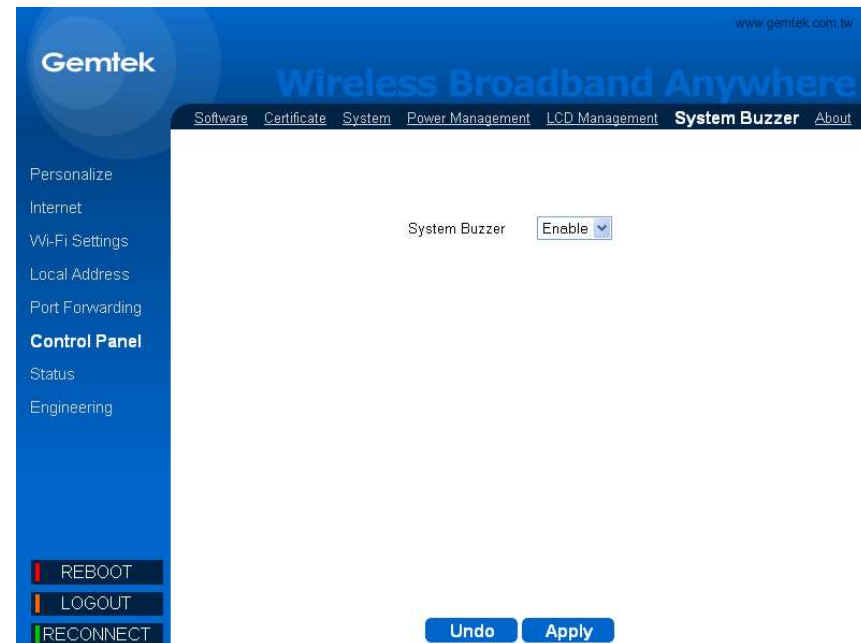
- **LCD Backlight Timeout:** Select **Never** radio button to keep the LCD backlight always on, or select the second radio button to set the backlight timeout period in seconds.
- **System Time Display Format:** Select the system time display format from the drop down menu, 12hr or 24hr.
- **Wi-Fi Password Display Enable:** Check on this checkbox to display the Wi-Fi password on the device LCD panel.
- **Undo:** Click the **Undo** button to clear the changes that you have made on this window.
- **Apply:** The changes that you have made on this window can be saved in the device by clicking the **Apply** button.



Control Panel | System Buzzer

Select **Control Panel > System Buzzer** to enable or disable (Mute) the buzzer sound during the system startup and shutdown.

- **Undo:** Click the **Undo** button to clear the changes that you have made on this window.
- **Apply:** The changes that you have made on this window can be saved in the device by clicking the **Apply** button.



Control Panel | About

Select **Control Panel > About** to display the basic information about the device: Service Provider, Product Name, WAN port MAC address, LAN Port MAC address, Model ID, Device hardware version and Serial ID.

The screenshot shows the Gemtek control panel interface. The top header features the Gemtek logo and the slogan "Wireless Broadband Anywhere" with the website URL "www.gemtek.com.tw". A navigation menu at the top includes links for Software, Certificate, System, Power Management, LCD Management, System Buzzer, and About. A left sidebar menu lists various settings: Personalize, Internet, Wi-Fi Settings, Local Address, Port Forwarding, Control Panel (highlighted), Status, and Engineering. At the bottom of the sidebar are three buttons: REBOOT, LOGOUT, and RECONNECT. The main content area displays the following device information:

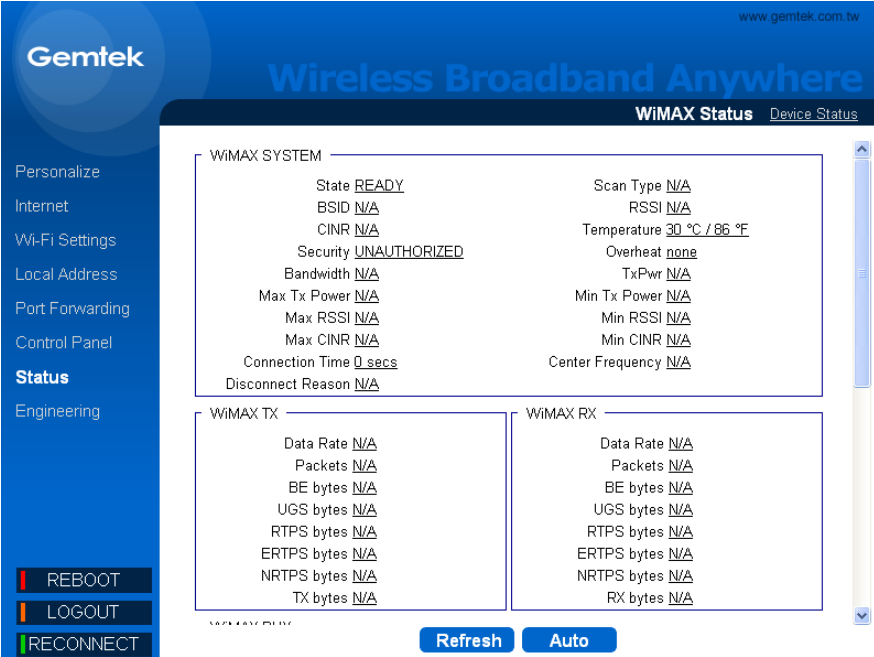
Service Provider	Clearwire
Product Name	WIXFMM-122
WAN MAC	00:08:01:02:03:04
LAN MAC	00:26:82:66:77:88
Model ID	WIXFMM-121
Hardware Version	V01
Serial ID	0000000000000001

Status

Status | WiMAX Status

Select **Status** > **WiMAX Status** to display the WiMAX connection status.

- **Refresh:** Click the **Refresh** button to refresh the current WiMAX connection status.
- **Auto:** Click the **Auto** button to update the status information periodically.



Status | Device Status

Select **Status > Device Status** to display the status of device system uptime and WAN information.

- **Refresh:** Click the **Refresh** button to update the current device status.
- **Auto:** Click the **Auto** button to update the status information periodically.

The screenshot displays the Gemtek management interface for a 4G Wi-Fi Spot. The main content area is titled "SYSTEM" and contains the following information:

- IP Address N/A
- MAC 00:0c:e7:0b:01:01
- IP Subnet Mask N/A
- IP Default Gateway N/A
- IP Connection OFF
- Firewall ON
- Lease Obtained N/A
- Lease Expires N/A
- DNS Server N/A
- Time Server N/A
- Device Up Time 0days 1hours 12minutes
- Device Restart Reason Software Upgrade

At the bottom of the page, there are two buttons: "Refresh" and "Auto".

Reboot /Log out/ Reconnect

There are 3 function buttons on the lower left corner

- **Reboot:** Click the **Reboot** button to restart your device.
- **Log out:** To logout from this management UI and go back to log in page when you click the **Log out** button.
- **Reconnect:** The device will attempt reconnection to the Base Station if you click the **Reconnect** button.

The screenshot displays the Gemtek management interface for a WIMAX device. The main content area is titled 'WIMAX Status' and shows the following data:

WIMAX SYSTEM	
State	READY
BSID	N/A
CINR	N/A
Security	UNAUTHORIZED
Bandwidth	N/A
Max Tx Power	N/A
Max RSSI	N/A
Max CINR	N/A
Connection Time	0.1833
Disconnect Reason	N/A
Scan Type	N/A
RSSI	N/A
Temperature	30.7C / 86.3F
Overheat	none
TxPwr	N/A
Min Tx Power	N/A
Min RSSI	N/A
Min CINR	N/A
Center Frequency	N/A

WIMAX TX	WIMAX RX
Data Rate	N/A
Packets	N/A
BE bytes	N/A
UGS bytes	N/A
RTPS bytes	N/A
ERTPS bytes	N/A
NRTPS bytes	N/A
TX bytes	N/A
Data Rate	N/A
Packets	N/A
BE bytes	N/A
UGS bytes	N/A
RTPS bytes	N/A
ERTPS bytes	N/A
NRTPS bytes	N/A
RX bytes	N/A

At the bottom of the page, there are 'Refresh' and 'Auto' buttons. In the bottom left corner, three buttons are highlighted with a red box: 'REBOOT', 'LOGOUT', and 'RECONNECT'.

Federal Communication Commission Interference Statement

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 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 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 radio/TV technician for help.

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

IMPORTANT NOTE:

Radiation Exposure Statement:

The product comply with the US/Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for

intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.

Due to the essential high output power natural of WiMAX device, use of this device with other transmitter at the same time may exceed the FCC RF exposure limit and such usage must be prohibited (unless such co-transmission has been approved by FCC in the future).

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

- **EN 60950-1: 2006+A11: 2009**
Safety of Information Technology Equipment
- **EN 300 328 V1.7.1: 2006**
Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
- **EN62311 : 2008**
Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz – 300 GHz)
- **EN 301 489-1 V1.8.1: 2008**
Electromagnetic compatibility and Radio Spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
- **EN 301 489-4 V1.4.1: 2009**
Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links, Broadband Data Transmission System Base stations, ancillary equipment and services
- **EN 301 489-17 V2.1.1: 2009**
Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment; Part 17: Specific conditions for Broadband Data Transmission Systems
- **EN 302 326-2 V1.2.2: 2007**
Fixed Radio Systems; Multipoint Equipment and Antennas; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE







Directive for Digital Multipoint Radio Equipment

EN 302 326-3 V1.3.1: 2008





Fixed Radio Systems; Multipoint Equipment and Antennas; Part 3: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE

Directive for Multipoint Radio Antennas.

CE 0560

 Český [Czech]	<i>[Jméno výrobce]</i> tímto prohlašuje, že tento <i>[typ zařízení]</i> je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
 Dansk [Danish]	Undertegnede <i>[fabrikantens navn]</i> erklærer herved, at følgende udstyr <i>[udstyrets typebetegnelse]</i> overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
 Deutsch [German]	Hiermit erkläre <i>[Name des Herstellers]</i> , dass sich das Gerät <i>[Gerätetyp]</i> in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
 Eesti [Estonian]	Käesolevaga kinnitab <i>[tootja nimi = name of manufacturer]</i> seadme <i>[seadme tüüp = type of equipment]</i> vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
 English	Hereby, <i>[name of manufacturer]</i> , declares that this <i>[type of equipment]</i> is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
 Español	Por medio de la presente <i>[nombre del fabricante]</i> declara que el <i>[clase de equipo]</i> cumple con

[Spanish]	los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
[Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ [<i>name of manufacturer</i>] ΔΗΛΩΝΕΙ ΟΤΙ [<i>type of equipment</i>] ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
[French]	Par la présente [<i>nom du fabricant</i>] déclare que l'appareil [<i>type d'appareil</i>] est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
[Italian]	Con la presente [<i>nome del costruttore</i>] dichiara che questo [<i>tipo di apparecchio</i>] è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
[Latvian]	Ar šo [<i>name of manufacturer / izgatavotāja nosaukums</i>] deklarē, ka [<i>type of equipment / iekārtas tips</i>] atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
[Lithuanian]	Šiuo [<i>manufacturer name</i>] deklaruoja, kad šis [<i>equipment type</i>] atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
[Dutch]	Hierbij verklaart [<i>naam van de fabrikant</i>] dat het toestel [<i>type van toestel</i>] in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
[Maltese]	Hawnhekk, [<i>isem tal-manifattur</i>], jiddikjara li dan [<i>il-mudel tal-prodott</i>] jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Dirrettiva 1999/5/EC.
[Hungarian]	Alulírott, [<i>gyártó neve</i>] nyilatkozom, hogy a [<i>... típus</i>] megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
[Polish]	Niniejszym [<i>nazwa producenta</i>] oświadczam, że [<i>nazwa wyrobu</i>] jest zgodny z zasadniczymi

[Polish]	wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
 Português [Portuguese]	<i>[Nome do fabricante]</i> declara que este <i>[tipo de equipamento]</i> está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
 Slovensko [Slovenian]	<i>[Ime proizvajalca]</i> izjavlja, da je ta <i>[tip opreme]</i> v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	<i>[Meno výrobcu]</i> týmto vyhlasuje, že <i>[typ zariadenia]</i> spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
 Suomi [Finnish]	<i>[Valmistaja = manufacturer]</i> vakuuttaa täten että <i>[type of equipment = laitteen tyyppimerkintä]</i> tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
 Svenska [Swedish]	Härmed intygar <i>[företag]</i> att denna <i>[utrustningstyp]</i> står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.