

# WiMAX USB Dongle

## User Manual



# Contents

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Contents.....	1
About this Manual.....	3
Purpose.....	3
Conventions Used in this Document .....	3
Chapter 1 – Installation on Windows OS.....	4
Chapter 2 – Reference Manual for Windows OS .....	8
Main Menu .....	8
Settings   Basic .....	9
Settings   Authentication .....	111
Status   IP Network .....	12
Status   WiMAX.....	13
Status   About .....	14
How to Connect to WiMAX Network .....	15

Chapter 3 – Installation on MAC OS ..... 17

Chapter 4 – Network Service ..... 23

Chapter 5 – Reference Manual for MAC OS ..... 24

    Main Menu ..... 24

    Settings | Basic ..... 26

    Settings | Authentication ..... 28

    IP Network ..... 29

    WiMAX..... 30

    About..... 31

    How to Connect to WiMAX Network ..... 32

## About this Manual




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### Purpose

This document provides information and procedures on installation and configuration of WiMAX USB Dongle. 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:

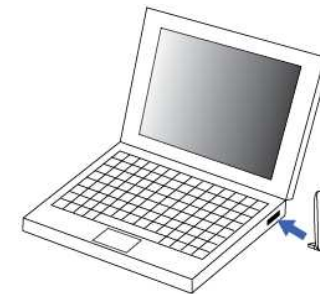
	Very important information. Failure to observe this may result in damage.
	Important information that should be observed.
	Additional information that may be helpful but which is not required.
<b>bold</b>	Menu commands, buttons and input fields are displayed in bold

## Chapter 1 – Installation on Windows OS

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This chapter describes the procedure of installing WiMAX USB Dongle for Windows XP, Windows Vista and Windows 7. Please follow the steps below to install WiMAX Connection Manager.

**Step1:** Plug-in WiMAX Dongle to your PC/ Laptop.



*Plug-in WiMAX Dongle*

**Step2:** A new drive called “WiMAXCM” would be shown after the device plug-in. If auto run of your system is enabled, the installer will be launched automatically. Otherwise, please execute the installer manually.



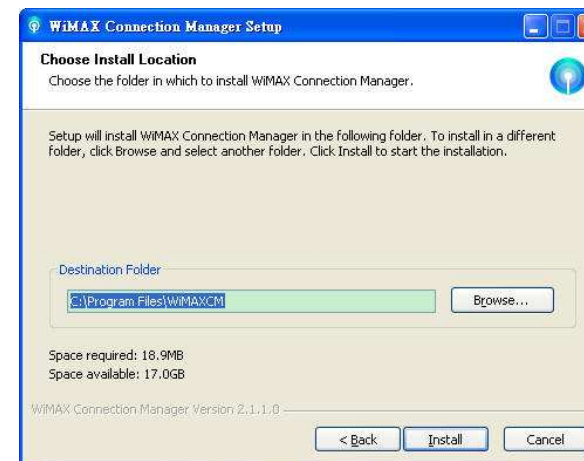
*New Device “WiMAXCM”*

**Step3:** Click **Next** to continue the Setup Wizard.



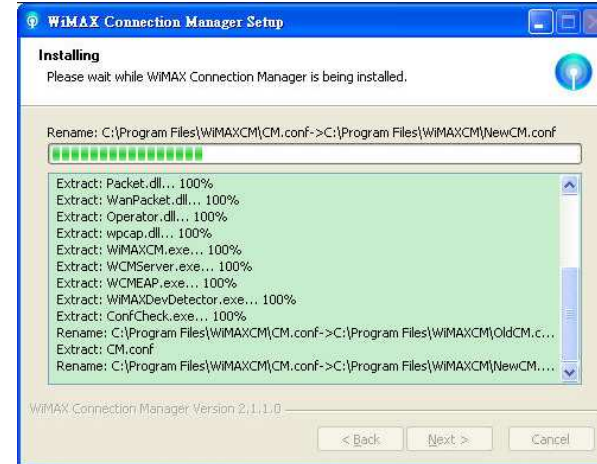
*Setup Wizard – Welcome Page*

**Step4:** Click **Browse** to select the installation path, and then click **Install** to start the installation.



**Step5:** Starting the installation.

*Setup Wizard – Browse Installation Path*



**Step6:** Click **Finish** to complete the installation.

*Setup Wizard – Installing*



**Step7:** The WiMAX Connection Manager window will appear after the setup wizard is completed.

**Step8:** Now you could configure your dongle through the Connection Manager.

*Setup Wizard –Complete Setup Wizard*



*WiMAX Connection Manager*



## Chapter 2 – Reference Manual for Windows OS

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This chapter shows the definition of the configurations on the Connection Manager.

### Main Menu

- λ **Connect Button:** Click the **Connect** button, then your dongle will connect to the Base Station.
- λ **Settings Button:** Click the **Settings** button to change the configurations.
- λ **Status Button:** Click **Status** button to view the device status.
- λ **[X] Button:** Close WCM.
- λ **[-] Button:** Minimize the window to system tray.
- λ **[?] Button:** Launch user manual.



*Connection Manager – Main Menu*

## Settings | Basic

### Default Setting

λ **Automatically Start CM when Device is Plugged:**

WiMAX Connection Manager will start automatically when the dongle is plugged to PC.

λ **Automatically Connects When CM Starts:**

WiMAX Connection Manager will try to connect to WiMAX network automatically when it starts.

λ **Upgrade Button:** If DM is supported and this button is enabled, user can click on it to check whether there is a newer version of WiMAX

Connection Manager. 



*Settings – Basic*

- λ **OK button:** Click OK to apply the changes.
- λ **Cancel button:** Click Cancel to cancel and close the setup window.

## Settings | Authentication

### Authentication

- λ **Method:** Select the Authentication **Method** as suggested by your service provider and enter the **login credentials, User Identity and User Password.**
- λ **Realm:** Enter the **Realm** provided by your service provider.
- λ **OK button:** Click OK to apply the changes.
- λ **Cancel button:** Click Cancel to cancel and close the setup window.



*Settings – Authentication*

## Status | IP Network

Display the Physical Address, IP Address, Subnet Mask, Default Gateway and DNS Servers.

λ **Close button:** click **Close** to close the status window.

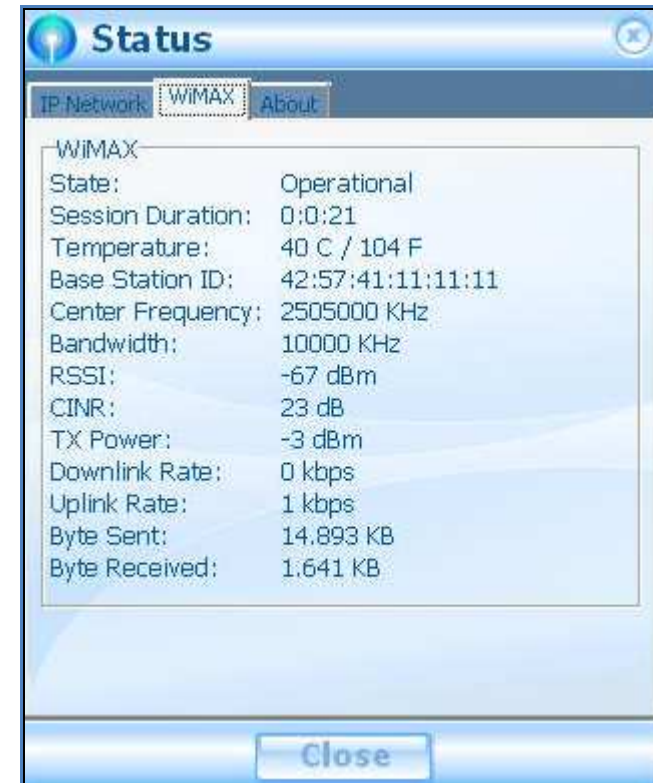


*Status – IP Network*

## Status | WiMAX

Display the State, Session Duration, Temperature, Base Station ID, Center Frequency, Bandwidth, RSSI, CINR, TX Power, Downlink Rate, Uplink Rate, Byte Sent and Byte Received

λ **Close button:** click **Close** to close the status window.



Status – WiMAX

## Status | About

Display the Product Name, Product Version, Driver Version, Firmware,

Version and URL

λ **Close button:** click **Close** to close the status window.



*Status – About*

## How to Connect to WiMAX Network

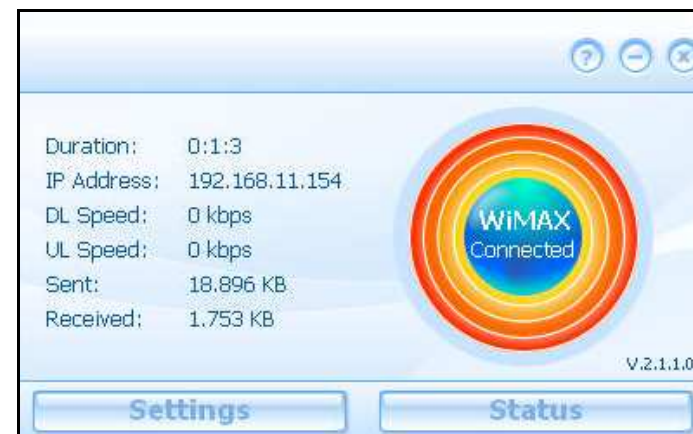
λ If **Automatically Connects When CM Starts** is enabled, a blue button with dynamic background will be shown and WiMAX Connection Manager will try to connect to any available WiMAX BS.



*Automatic Connection Mode*

λ When being connected to WiMAX network, a small blue button with colorful concentric circles that represents the WiMAX signal strength would be shown.

Some basic information is also shown on this window, and details can be found on the status window shown once Status button is clicked.



*WiMAX Connected*



λ By clicking the orange button, your WiMAX network will be disconnected.



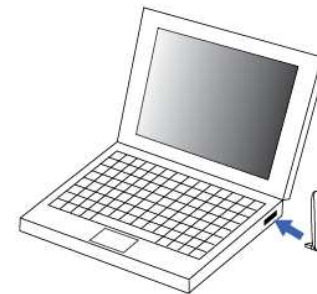
*WiMAX Disconnected*

## Chapter 3 – Installation on MAC OS

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This chapter provides the software installation of WiMAX 802.16e USB dongle for Mac OS X 10.5 and above. Please follow the steps below to install WiMAX Connection Manager.

**Step1:** Plug-in WiMAX Dongle to your PC/ Laptop.



*Plug-in WiMAX Dongle*

**Step2:** A volume image named “WiMAXCM” will be mounted automatically after the device plug-in. Browse “Mac” folder in this volume image.



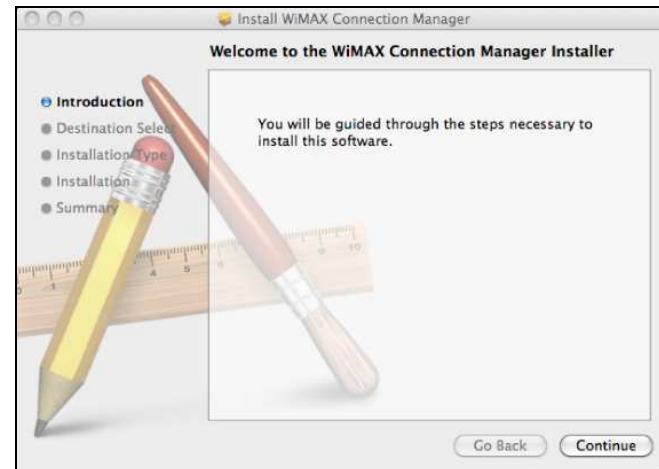
*New Device “WiMAXCM” – “MAC” Folder*

**Step3:** Double click on “WiMAXCMInst.mpkg” to start the installation procedures.



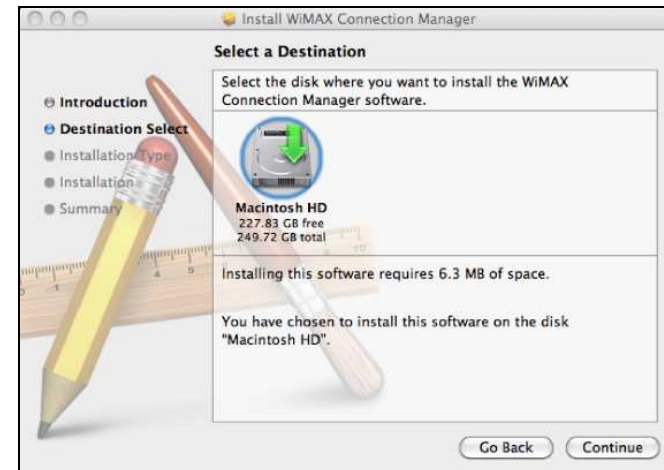
*Double click on WiMAXCMInst.mpkg*

**Step4:** Click **Continue** to continue the Setup Wizard.



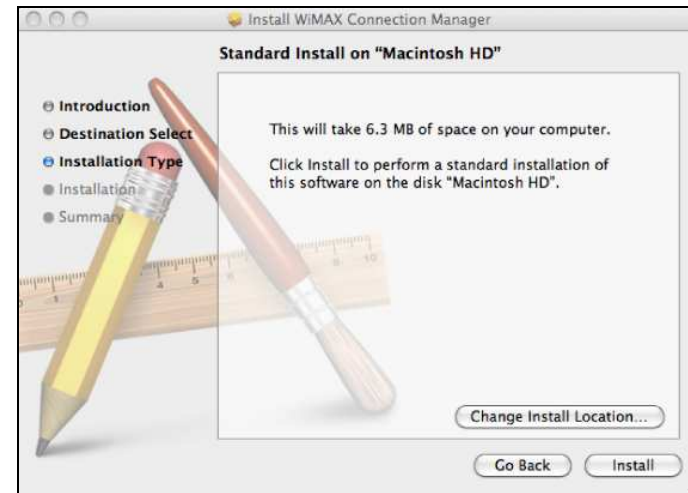
*Introduction*

**Step5:** Select the destination disk and then click **Continue** to continue the setup wizard.



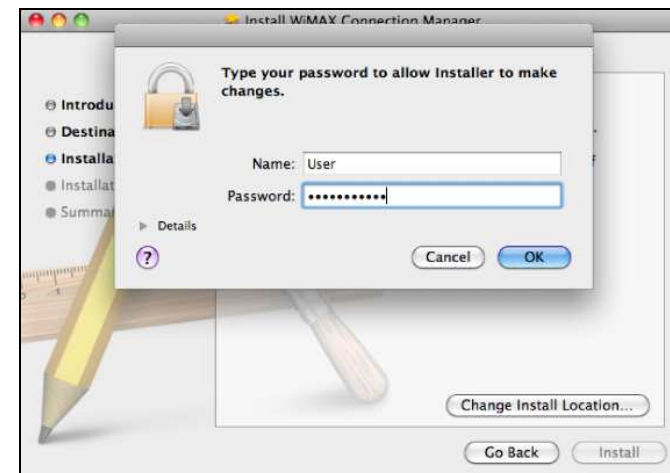
*Destination Select*

**Step6:** Click **Install** to start installation.



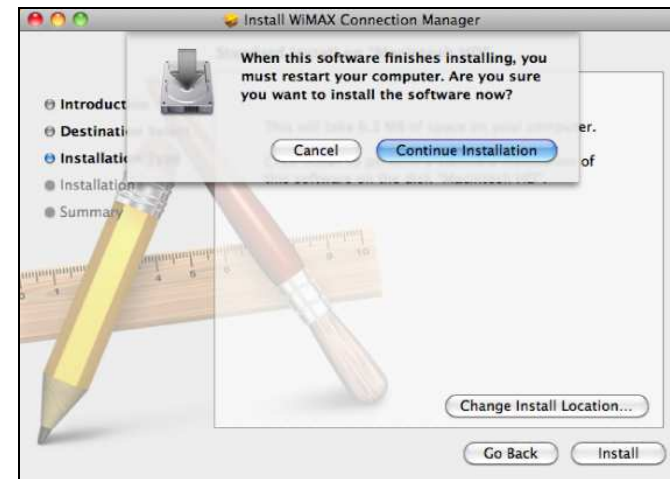
**Step7:** Before starting installation, please enter **User Name** and **Password** of the account with root privilege and then click **OK** to continue.

## *Installation Type*



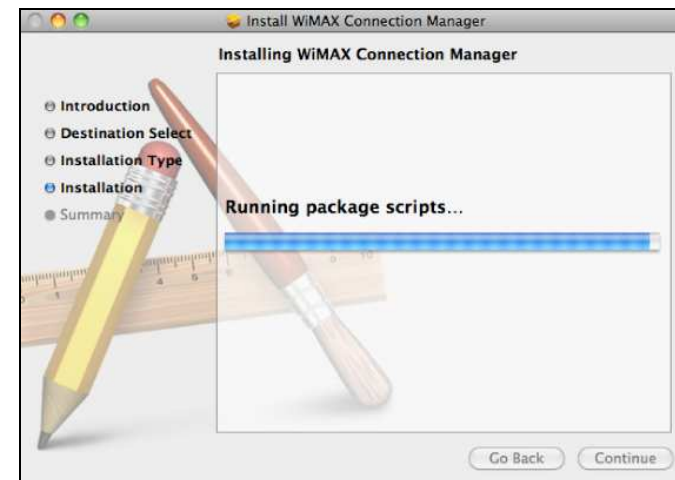
*Enter User Name and Password to Make Changes*

**Step8:** A message window will pop-up and show that the user must **restart the system** after installation. Click **Continue Installation** to continue.



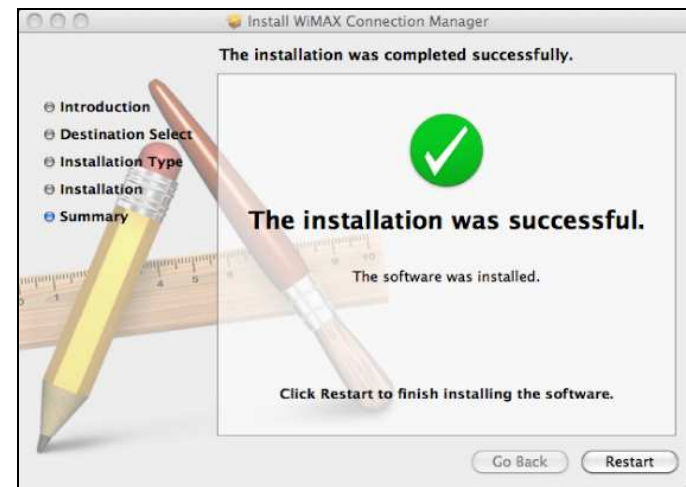
*Pop-up Message Window*

**Step9:** Starting the installation.



*Starting the installation*

**Step10:** Click **Restart** to complete the installation.



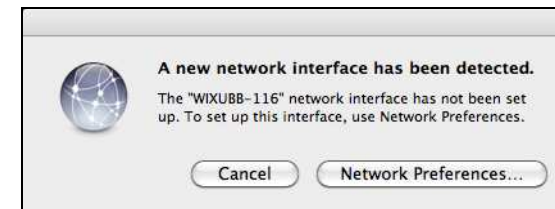
*Summary*

## Chapter 4 – Network Service

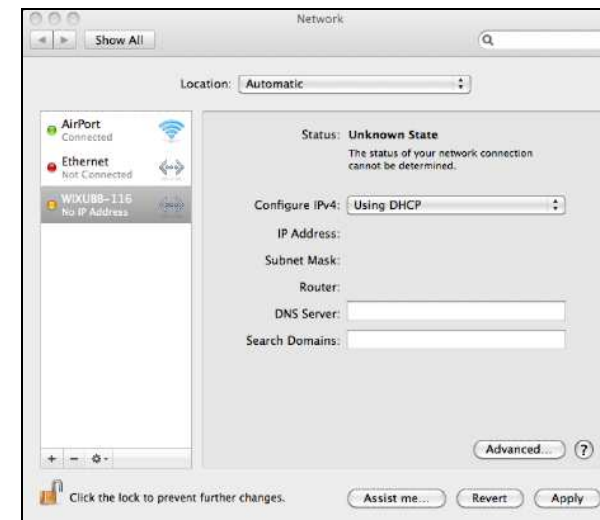
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This chapter describes how to create a network service related to the new WiMAX network interface in Mac OS X.

- λ If it is the first time to use the device on your computer, the system will pop up a window that asks you to add a new network service. Click **Network Preferences...** to continue.
  
- λ Select the device at the list and click on **Apply** to complete the configuration.



*Network Preferences*



*Complete Network Preferences*



## Chapter 5 – Reference Manual for MAC OS

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This chapter shows the definition of the configurations on the Connection Manager.

### Main Menu

- λ **Connect Button:** Click the **Connect** button, then your dongle will connect to the Base Station.
- λ **Settings Button:** Click the **Settings** button to change the configurations.
- λ **IP Network:** Click **IP Network** button to view the device network status.
- λ **WiMAX:** Click **WiMAX** button to view the device WiMAX status.
- λ **About Button:** Click **About** button to view the device status.



*Connection Manager – Main Menu*

- λ **Red Button:** Close WCM.
- λ **Yellow Button:** Minimize the window to system tray.
- λ **[?] Button:** Launch user manual.

## Settings | Basic

λ **Automatically Start CM when Device is Plugged:**

WiMAX Connection Manager will start automatically when the dongle is plugged to PC.

λ **Automatically Connects When CM Starts:**

WiMAX Connection Manager will try to connect to WiMAX network automatically when it starts.

λ **Upgrade Button:** If DM is supported and this button is enabled,

user can click on it to check whether there is a newer version of

WiMAX Connection Manager.

λ **OK button:** Click OK to apply the changes.



*Settings – Basic*

λ **Cancel button:** Click Cancel to cancel and close this window.

## Settings | Authentication

- λ **Method:** Select the Authentication **Method** as suggested by your service provider and enter the **login credentials, User Identity and User Password.**
- λ **Realm:** Enter the **Realm** provided by your service provider.
- λ **OK button:** Click OK to apply the changes.
- λ **Cancel button:** Click Cancel to cancel and close the setup window.

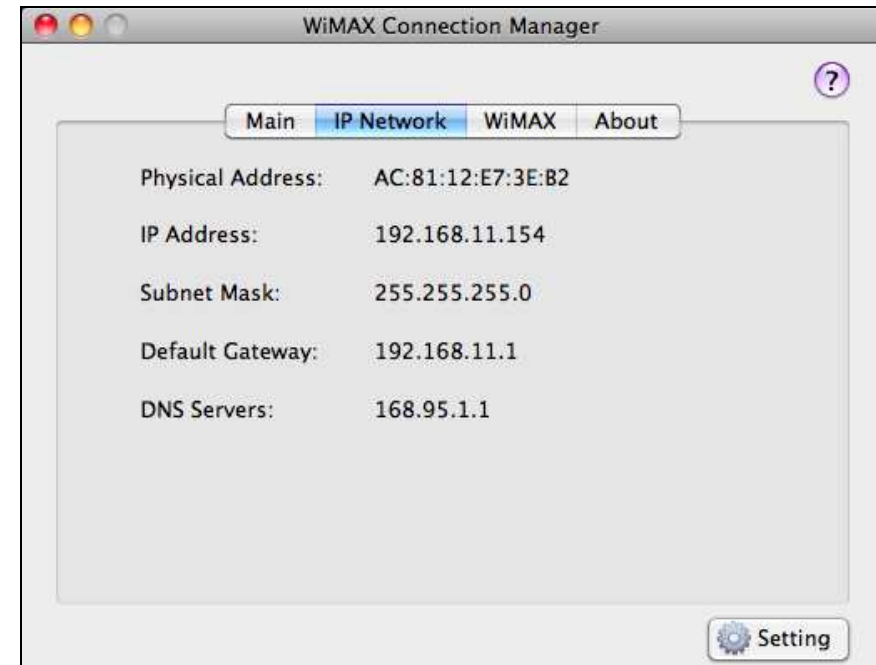


*Settings – Authentication*

## IP Network

Display the Physical Address, IP Address, Subnet Mask, Default

Gateway and DNS Servers.



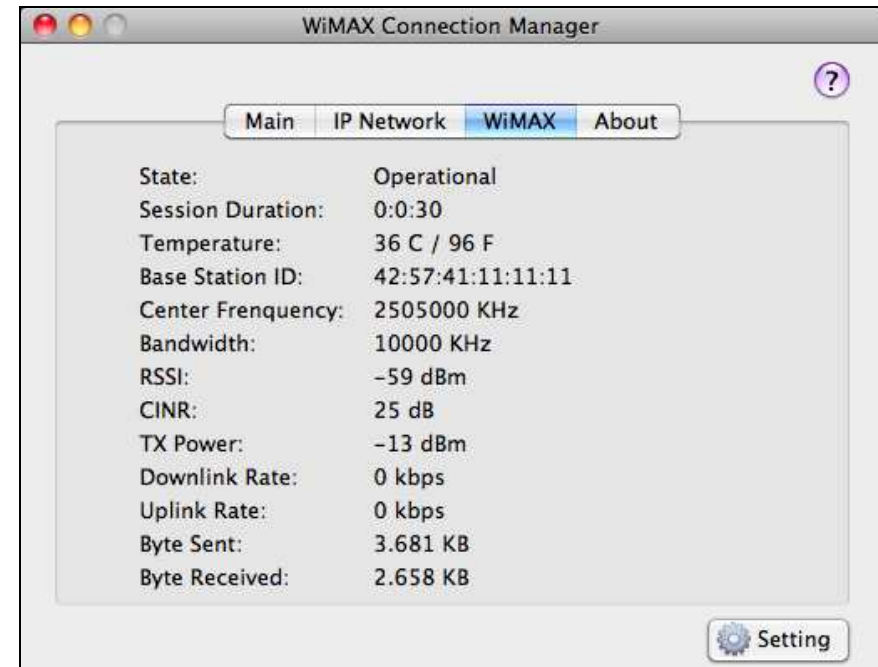
*Status – IP Network*

## WiMAX

Display the State, Session Duration, Temperature, Base Station ID,

Center Frequency, Bandwidth, RSSI, CINR, TX Power, Downlink

Rate, Uplink Rate, Byte Sent and Byte Received

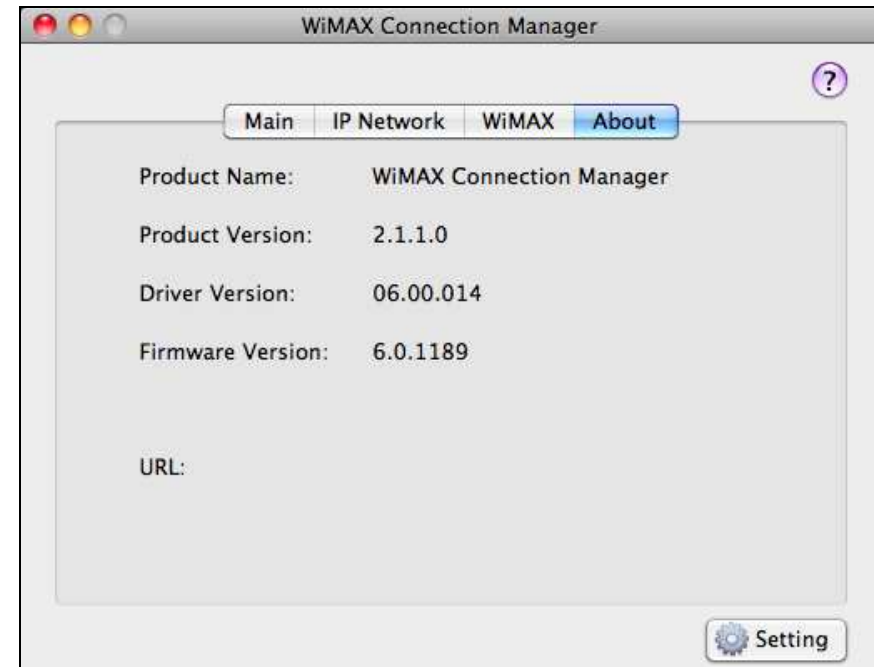


*WiMAX Status*

## About

Display the Product Name, Product Version, Driver Version,

Firmware, Version, Copyright and URL



*Status – About*



## How to Connect to WiMAX Network

- λ If **Automatically Connects When CM Starts** is enabled, WiMAX Connection Manager will try to connect to any available WiMAX BS. Otherwise, click on the **Connect** button on Main Menu.

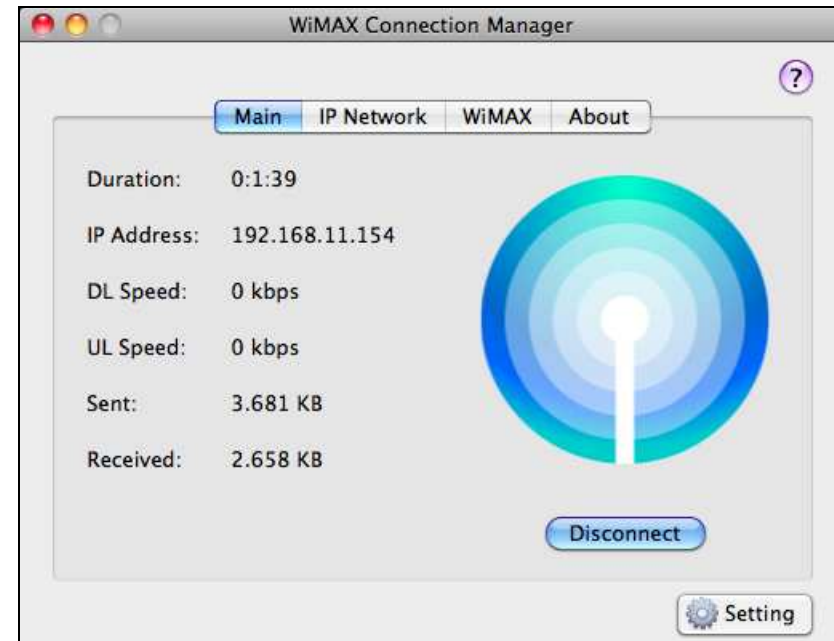


*Automatic Connection Mode*

λ When being connected to WiMAX network, the blue concentric circles that represent WiMAX signal strength would be shown.

And some basic information is also shown on this window.

λ By clicking the **Disconnect** button, network will be disconnected.



*WiMAX Connected*

### **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.

SAR compliance has been established in typical laptop computer(s) with USB slot, and product could be used in typical laptop computer with USB slot. Other application like handheld PC or similar device has not been verified and may not compliance with related RF exposure rule and such use shall be prohibited.

The USB dongle transmitter is approved for use in typical laptop computers. To comply with FCC RF exposure requirements, it should not be used in other devices or certain laptop and tablet computer configurations where the USB connectors on the host computer are unable to provide or ensure the necessary operating configurations intended for the device and its users or bystanders to satisfy RF exposure compliance requirements.

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).