USER GUIDE

Mobile WiMAX USB Adapter US211



USER GUIDE

US211

IEEE 802.16e-2005 Mobile WiMAX USB Adapter, with 2.3, 2.5, and 3.5 GHz Frequency Band Models

> US211 E072009-AP-R01 14910000031W

COMPLIANCES

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

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.

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.

IMPORTANT NOTE:

FCC RADIATION EXPOSURE STATEMENT

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user. Due to the essential high output power nature of WiMAX devices, use of this device with other transmitters 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).

SAR (SPECIFIC ABSORPTION RATE) COMPLIANCES STATEMENT

SAR compliance has been established in typical laptop computer (s) with a USB slot, and the product can be used in typical laptop computers with USB slots. Other applications, such as handheld PCs or similar devices have not been verified and may not be in compliance with related RF exposure rules and such use shall be prohibited.

EC CONFORMANCE DECLARATION ((!)

Marking by the above symbol indicates compliance with the Essential Requirements of the R&TTE Directive of the European Union (1999/5/EC).

This device is intended for use in the following European Community countries.

NCC 警語

『減少電磁波影響請妥適使用』

ABOUT THIS GUIDE

PURPOSE This guide details the hardware features of the US211 WiMAX USB Adapter, including its physical and performance-related characteristics, and how to install the device and use its configuration software.

- **AUDIENCE** This guide is for PC users with a working knowledge of computers. You should be familiar with Windows operating system concepts.
- **CONVENTIONS** The following conventions are used throughout this guide to show information:

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NOTE: Emphasizes important information or calls your attention to related features or instructions.



CAUTION: Alerts you to a potential hazard that could cause loss of data, or damage the system or equipment.



WARNING: Alerts you to a potential hazard that could cause personal injury.

RELATED PUBLICATIONS The following publication gives basic information on how to install and use the WiMAX USB Adapter.

Quick Installation Guide

Also, as part of the card's configuration software, there is online help that describes all management features.

REVISION HISTORY This section summarizes the changes in each revision of this guide.

JULY 2009 REVISION

This is the first revision of this guide. This guide is valid for software version 2.0.0.0.

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INTRODUCTION

The WiMAX USB Adapter is a network adapter that enables a notebook PC to connect to a service provider's 2.3 GHz, 2.5 GHz or 3.5 GHz mobile WiMAX network.

The USB adapter plugs directly into a PC's compatible USB port and includes its own driver and configuration software for Windows XP and Windows Vista.

Figure 1: WiMAX USB Adapter



FEATURES

- Mobile WiMAX IEEE 802.16e-2005 Wave 2 compliant
- Three models for 2.3 GHz, 2.5 GHz or 3.5 GHz mobile WiMAX networks
- Full Non-Line-of-Sight (NLOS) operation
- Two LED indicators for power and link status
- Easy installation with a user-friendly interface for configuration.
- Driver support for Windows XP with Service Pack 2 (SP2) and Windows Vista

SYSTEM REQUIREMENTS

Before you install the WiMAX USB Adapter, check your system meets the following requirements:

- A notebook or desktop computer with a USB port
- Microsoft Windows XP or Windows Vista
- Microsoft .NET Framework Version 2.0 (or higher) installed on the host computer
- A 1 GHz Pentium CPU or higher with a minimum of 256 MB of RAM

PACKAGE CHECKLIST

The WiMAX USB Adapter package includes these items:

- WiMAX USB Adapter (US211)
- Quick Installation Guide

Inform your dealer if there are any incorrect, missing or damaged items. If possible, retain the carton, including the original packing materials. Use them to repack the product in case there is a need to return it.

Hardware Description

The US211 WiMAX USB Adapter enables notebook PC users to connect to a WiMAX Internet access service provider.

USB CONNECTOR The USB adapter can be installed in any notebook PC with a USB port. The notebook PC must be running Windows XP with Service Pack 2 or Windows Vista.

LED INDICATORS The WiMAX USB Adapter includes two status LED indicators, as described in the following figure and table.

Figure 2: LED Indicators



Table 1: LED Indicators

LED	Status	Description
Power	On Blue	The USB adapter is correctly installed in a USB port and is receiving power.
Link/Activity	On Green	The USB adapter is searching for a WiMAX base station.
	On Orange	The USB adapter has an established link with a base station and is transmitting or receiving data.

INSTALLATION

To install the WiMAX USB Adapter driver and software utility for Windows XP or WIndows Vista, follow these steps:

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NOTE: Only the installation interface for Windows XP is shown in this guide. However, the utility installation screens are similar for all Microsoft Windows systems.

- 1. Turn on your notebook and wait until the Windows system has completely started.
- 2. Insert the adapter into an available USB port. When the USB adapter is inserted correctly, its blue LED turns on (see page 10).



NOTE: If you encounter problems installing the USB adapter, see "Troubleshooting" on page 39.

3. The "InstallShield Wizard" program should start automatically. If the install program does not start automatically, use Windows Explorer to find the USB adapter, which appears as an external USB drive. Open the folder and find the file "Setup.exe" to start the install program.



CAUTION: Check if the Microsoft .Net Framework (2.0 or later) is installed on your system. You can check by opening Control Panel and then clicking "Add or Remove Programs." If you do not have the correct .Net Framework installed, go to the Microsoft web site and download it. (The .NET Framework requires approximately 23 MB of memory and is a free download.) **4.** Click Next to continue the installation.

Figure 3: InstallShield Wizard Start



5. Select to accept the license agreement terms, then click Next.

Figure 4: Accept License Agreement Terms

WCM - InstallShield Wizard	×
License Agreement Please read the following license agreement carefully.	JU
LICENSE AGREEMENT READ THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT CAREFULLY BEFORE INSTALLING WCM application (the "Software"). By installing the Software, you are accepting and agreeing to the terms and conditions of this agreement. If you do not agree to the terms of this agreement, do not install the Software. THE SOFTWARE IS COPYRIGHTED AND LICENSED (NOT SOLD). IF YOU ARE NOT WILLING TO BE BOUND BY THE TERMS OF THIS LICENSE AGREEMENT, YOU SHOULD PROMPTLY QUIT THE INSTALLATION. THIS LICENSE AGREEMENT REPRESENTS THE ENTIRE AGREEMENT CONCERNING THE SOFTWARE BETWEEN YOU AND AWB (FTL) LTD (REFERRED TO AS "LICENSBOR"), AND IT	
I accept the terms of the license agreement Print I do not accept the terms of the license agreement]
Cancel	

6. Confirm or change the location of the installation files on the PC before clicking Next.

Figure 5: Start the Installation

WCM - InstallShield Wizard	
Choose Destination Location Select folder where setup will install files.	EN
Setup will install AWB WCM in the following folder.	
To install to this folder, click Next. To install to a different folder, click Browse and sele another folder.	ect
Destination Folder	
C:\Program Files\AWB WCM\	ise
InstallShield	
< Back Next>	Cancel

7. Wait for the software installation procedure to complete.

Figure 6: Installation in Progress

WCM - InstallShield Wizard	<
Setup Status	B
AWB WCM is configuring your new software installation.	
Unpublishing assembly information	
InstallShield	

()

NOTE: If a message concerning Windows Logo testing is displayed, click the "Continue Anyway" button.

8. When the "InstallShield Wizard Complete" message displays, click Finish.







CAUTION: Safely remove the USB adapter by double-clicking the Safely Remove Hardware icon in the notification area, click the device and then click stop.

CONFIGURATION

The Wireless Connection Manager (WCM) software provides all the tools to manage and monitor your WiMAX connection. After initial installation, the software starts automatically every time you insert the WiMAX USB Adapter.

ACCESSING THE WCM UTILITY

Once the utility installation is complete, there are several methods of starting the WCM software other than by inserting the WiMAX USB Adapter. The utility screens are similar for all Microsoft Windows systems. The interface for Windows XP is described in this user guide.

From the WCM shortcut icon on the Windows XP or Windows Vista desktop:

Figure 8: WCM Desktop Icon



From the WCM icon on the Windows System Tray:

Figure 9: WCM System Tray Icon



The System Tray icon also indicates the WiMAX connection status.



White: No connection to a WiMAX network.





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Red: Connected to a network, but no IP address assigned. Lighter color bars indicate the receive signal level.

Green: Connected to network with an assigned IP address. Lighter color bars indicate the receive signal level.

DISPLAY OPTIONS

The WCM software has two display options, or "skins," to choose from. The main screens for the two skins are shown below.

Figure 10: Jet Black Skin



Figure 11: Sky Blue Skin



Other than the display style, there are no functional differences between the default Jet Black Skin and the alternate Sky Blue Skin. You can select the skin type from the Tool menu.

This guide describes the WCM software for the Jet Black Skin.

VIEW MENU OPTIONS The WCM utility's View menu includes three options that apply to the display window:

Compact View — Displays the window in compact format that uses minimum screen space. This view displays only the roaming status.

Clicking the mouse right button displays a menu where the WCM full view can be restored.

Figure 12: WCM Compact View



Docking — Forces the display window to "jump" to the nearest screen edge.

Always on Top — The display window always remains in front of other windows.

CONNECTION MANAGEMENT

The WCM Connect/Disconnect screen displays information about the wireless link to the service provider network.

Figure 13: Connect/Disconnect Screen



The displayed items on this screen can be described as follows:

Profile Name — Name of a user account profile that defines a WiMAX network connection. When a profile is set to "Auto Connection" (see "Editing a Profile" on page 20), the Profile Name cannot be changed and the utility automatically scans and connects to the WiMAX network defined by the default profile.

Connect/Disconnect — Manually connects or disconnects to the WiMAX service as defined in the selected profile. When a profile is set to "Auto Connection" (see "Editing a Profile" on page 20), the Connect button is disabled and the utility automatically scans and connects to the WiMAX network defined by the default profile.

Adapter Status — Indicates if the card is plugged into a slot on the host PC and is active or powered off.

 $\ensuremath{\textbf{Connection}}$ — Indicates the current status of the WiMAX network connection.

Signal Strength — An image that shows the current receive signal strength indicator (RSSI) of the received WiMAX radio signal.

Signal Quality — A indication of the carrier-to-interference-plus-noiseratio (CINR), which measures the strength of the receive signal compared to other interference and noise. There are three possible values; Excellent, Good, or Poor.

Roaming — Indicates when a user roams onto a network other than the home network.

USIM Status — Displays the Subscriber Identity Module (SIM) or Universal SIM (USIM) card status.

Operator — Displays the network operator name to which the card is connected.

LOST WIMAX If your card does not detect a signal from a WiMAX network, the following **CONNECTION** screen is displayed.

Figure 14: No Detected Signal

The device could not connect to the network and you are required to choose one of three options :
 Restart connecting in few seconds
O Remain unconnected to network and try to connect later using connect button
O Perform full scan (long waiting time) - use this option for roaming only
Apply

When you see this screen, you have three options:

- Restart connecting in a few seconds Use this option when you are sure there is a signal from a WiMAX network to which you want to connect.
- Remain unconnected to network and try to connect later using connect button — Use this option if you wish to remain offline and continue working.
- Perform full scan (long waiting time) use this option for roaming only — Use this option if you do not know the coverage in your local area, to determine what signals are available. Note that a full scan may take up to 30 seconds to complete.

SELECTING PROFILES

The WCM profiles enable a user to set specific settings for connecting to a WiMAX network. The WCM utility must have at least one profile configured and set as the "Default Profile" to be able to connect to a WiMAX service.

The WCM utility can contain up to ten profiles, as provided by the WiMAX service operator. One profile must be set as the "Default Profile."

AWB Wirele	ss Connection Mana	ager	
View Tool Conn	ection Manager Help		About Help
Connect	Profile Service Provider :	00:00:02	×
	Profile Name :	✓ DefaultProfile	
Setting Network			
Statistics			
		ar Delete	

Figure 15: Profile Screen

EDITING A PROFILE Clicking the Edit button on the Profile screen displays the Edit Profile window.

eneral Scan Profi		
Profi		
	le Name : DefaultProf	ile
Or	perator Id : 00:00:02	
Onerat	or Name : AME	
Onessler Deelst	A A A A A A A A A A A A A A A A A A A	
 Operator Restrictio Home Operator 	 No Operator Re: 	striction
- Connection Mode -		
 Auto Connectio 	n 🌔 Manual Connect	lion O Prompt for Password
Dever Open Maria		
 Power Save Mode- High 	Medium	Application Optimized
✓ Save as Defaul	t Profile	Lock/UnlockProfile

Figure 16: Edit Profile Screen - General Tab

The General tab on this screen displays the following items:

Profile Name — A name used to identify the new profile.

Operator ID — The ID number of the WiMAX network operator for this profile.

Operator Name — The name of the WiMAX network operator for this profile.

Operator Restriction — When set to "Home Operator," the user can only connect to the service provider specified in the profile. When set to "No Operator Restriction," the operator specified in the profile is used when the network is detected, otherwise the user can roam to other networks.

Connection Mode — When set to "Auto Connection" the utility will use the profile settings to automatically scan and connect to a WiMAX network.

Power Save Mode — To save power, the card can operate in one of three modes:

- **High:** The card will go to sleep and idle whenever it can.
- Medium: The card will go to sleep and idle only after a predefined time.
- Application Optimized: The card will go to sleep and idle only when the PC operating system allows it.

Save as Default Profile — Saves the profiles settings and sets it as the default.

Clicking the Scan tab on the Edit Profile screen displays the profile frequency and bandwidth settings.

Edit Profile General Scar Frequency 2498.5	Bandwidth				
		<< Add Remove >>	Frequency : Bandwidth :	10	MHZ
	E	ок	Cancel		

Figure 17: Edit Profile Screen - Scan Tab

The Scan tab on the Edit Profile screen displays the following items:

Frequency – Specifies a center frequency to scan.

 ${\bf Bandwidth}$ — Specifies the bandwidth of the channel; 5, 7, 8.75, or 10 MHz.

CARD SETTINGS

The Setting screen enables specific card and WCM utility features to be configured.

Figure 18: Setting Screen - General Tab



The displayed items on this screen can be described as follows:

Autolaunch on adapter insert — Automatically starts the WCM utility when the card is inserted into a PC slot.

Autolaunch minimized — When set to automatically start WCM, the utility starts in its Windows minimized form.

Debug Monitor — Enables logging of messages to the WCM debug monitor. The debug monitor window is displayed when the WCM utility restarts.



Debug Monitor		X
Option Log		
4:33:29 PM 4:33:30 PM 4:33:31 PM 4:33:31 PM 4:33:32 PM 4:33:32 PM 4:33:32 PM 4:33:32 PM	ND&S: S1, Proir List is empty, goto S2 ND&S: S2, PreConfig mode: Add center frequency:2580 ND&S: S2, PreConfig mode: Add bandwidth:10 ND&S: S2, PreConfig mode: network search response: no BS found, return false ND&S: S2, PreConfig mode: Add center frequency:2580 ND&S: S2, PreConfig mode: Add bandwidth:10 ND&S: S2, PreConfig mode: network search response: no BS found, return false ND&S: S2, S2 failed over S2toS3Counter, goto PostS2	8
		V

Prompt for Authentication — Displays a window that prompts for a user name and password when connecting to a WiMAX network.

Notice Warning Message — Enables messages to be displayed by the WCM utility for certain events:

- WiMAX Connect lost: The connection to the WiMAX base station was lost.
- **Call Guard:** Issues a warning when you are about to connect while roaming.
- Adapter eject warning: Displays a message to remove the card from its slot when WCM is closed.
- **Prompt before exit:** Requests a confirmation to close the WCM utility.

Clicking the Security tab on the Setting screen displays the card security settings.

Figure 20: Setting Screen - Security Tab

🚿 AWB Wirele	ss Connection Manager
: View Tool Coni	rection Manager Help About Help
63	Setting
Profile	General Security Data USIM Configuration Calculate Sill Security Security Lock
Network Statistics	Locking mode : Never Lock
	ОК Сапсе

USIM Configuration — Enables support for SIM card security.

Security Lock — This security feature prevents others from using the WiMAX service. When the lock mode is enabled, the WiMAX connection is terminated. The user needs to first unlock the application to be able to use the WiMAX service.

• **Never Lock** – Disables the security lock of the WiMAX USB adapter.

Lock On Power Up – When the WCM utility is started, the card is locked. To unlock the card, you need to enter a user-defined lock code. You can set the lock code when the lock option is selected. When the WCM utility starts, a window prompts for the lock code. Input the lock code to enable the WiMAX connection.

WCM - Security			
WiMAX network adapter is locked!			
Please enter the lock code for access.			
Enter			

If you forget the lock code, you will not be able to use WCM. Contact your service provider for assistance.

Clicking the Data tab on the Setting screen displays settings relating to the host PC.

AWB Wirele	ess Connection Manager
: View Tool Con	nection Manager Help
	About Help
63	Setting
Connect	General Security Data
Profile	Disable network bindings for 1X connection
4 <u>0</u>	Block standby/hibernate during WiMAX connection
Network	
Statistics	
	OK Cancel
	EWA

Figure 21: Setting Screen - Data Tab

Disable network bindings for 1X connection — When the WiMAX card is configured, the card resources bind to Windows networking. Hence, file and printer sharing protocols are automatically created. These bindings are not required and may create additional over-the-air traffic, or cause security concerns. This setting allows you to disable the Windows network bindings for the WiMAX card.

Block standby/hibernate during WiMAX connection — The host PC may go into standby or hibernate mode during a WiMAX connection. The WCM utility can prevent this by blocking Windows standby or hibernate mode.

NETWORK INFORMATION

The Network screen allows you to view the current network settings for the card.

Figure 22: Network Information



The displayed items on this screen can be described as follows:

Description — Displays the card's identification.

IP Address — The IP address assigned to the card.

Subnet Mask — Indicates the local subnet mask, such as 255.255.255.0.

Default Gateway — The gateway address provided by the WiMAX service provider.

Primary DNS Server — Address of the primary DNS server, specified in the form of 0.0.0.0.

Secondary DNS Server – Address of the secondary DNS server.

Physical Address — The physical layer MAC address of the WiMAX card.

DHCP Enable — Indicates the DHCP client status. When DHCP is enabled, the device can automatically obtain an IP address operated by the WiMAX service provider.

WIMAX CONNECTION STATISTICS

The Statistics screen allows you to view information on the WiMAX connection.

Figure 23: Statistics Information

ᄛ AWB Wirele	ess Connection Manager				×
: View Tool Con	nection Manager Help				
				About Help	
65					
Connect	Total Online Duration:				
1	Online Duration:	00:00:			
Profile	DL Data Volume:		KBytes		
<u>.</u>	UL Data Volume:		KBytes	Contraction of the local division of the loc	
Setting	DL Data Rate:		Kbps		
	UL Data Rate:	0	Kbps		
Network	CINR:	0	dB		
	RSSI:	0	dBm		
	Transmit Power:	0	dBm		
			Į	Reset	
				.₩⁄∃	

The displayed items on this screen can be described as follows:

DL Data Volume — The downloaded data volume in Kbytes for the current online session.

UL Data Volume — The uploaded data volume in Kbytes for the current online session.

DL Data Rate — The current download data rate in Mbps.

UL Data Rate — The current upload data rate in Mbps.

CINR — The current carrier-to-interference-plus-noise ratio of the received WiMAX radio signal.

 $\ensuremath{\textbf{RSSI}}$ — The current receive signal strength indicator value of the received WiMAX radio signal.

Transmit Power — The current transmit power of the WiMAX radio signal.

Online Duration — The time the unit has had a link with the base station for the current session.

Total Online Duration — The total accumulated time for all sessions since the unit was powered on.

Reset — Click the button to reset all the counters back to zero.

TOOL MENU

In addition to the main configuration screens, the WCM utility has a number of other features that can be accessed from the Tool menu.

Figure 24: Tool Menu

🐋 AWI	3 W	ireless Connection Manage	er 📃	
: View	Tool	Connection Manager Help		
_		Setting	About Help	
		Disable Menu Bar		
		Power Off		
<u> </u>	\$	Safely Remove Hardware	Connect	
	θ	Lock the WiMAX Network Adapter Now	Connect	
		Sounds for Events		

DISABLE MENU BAR The Disable Menu Bar option on the Tool menu hides all the top-level menu options on the screen. To enable the menu bar, use the menu from the System Tray icon.

Figure 25: System Tray Icon Menu



TURNING POWER ON/ The WiMAX card's power can be turned off when required. In some restricted environments, such as on an aircraft or in a hospital, it may be necessary to power-off the card. You can also power off the card when not in use just to reduce power consumption form the host PC.

The card can be powered on/off from the Tool menu or from the System Tray icon menu.

SAFELY REMOVE Provides access to the Windows control for powering off and disabling the **HARDWARE** card so that it can be safely removed from host PC slot.

The Safely Remove Hardware option is available from the Tool menu and the System Tray icon menu.

NETWORK ADAPTER Now

LOCK WIMAX This locks the card and prevents others from using the WiMAX service. For the lock mode to operate, you must first configure a lock mode and code on the Security tab of the Setting screen. See "Card Settings" on page 22.

Figure 26: Lock USB Adapter



When the lock mode is enabled, the WiMAX connection is terminated. The user needs to first unlock the application to be able to use the WiMAX service.

The Lock/Unlock option is available from the Tool menu and the System Tray icon menu.

SOUNDS FOR EVENTS The WCM utility allows alert sounds to be configured for certain system events. You can configure a sound for WiMAX connection established and connection lost.

> In the configuration window, use the Browse button to locate a ".wav" sound file. The file may be a Windows system sound file or any other you may want to select.

Figure 27: Sounds for Events

🐳 WCM - Sounds for Even	t	×			
Select Sounds for Events					
Connection Established	C:\Program Files\W Browse				
Connection Lost	C:\Program Files\W Browse				
Roaming Alert	Browse				
OK Cancel					

SOFTWARE UPGRADE

The About page displays information about the software version the WCM utility.

The About WCM screen and Check for Update option is also available from the Help menu.

Figure 28: About WCM Information



Click the Upgrade button to check for available WCM software updates. A pop-up window indicates if a new version of software is available. Click the Download button download the software file, then click the Install button to upgrade the WCM utility.

Figure 29: Upgrade File Download

Check for Update				
	Current WCM version : 2.0.0.0. This is the latest version			
	Download Install Cancel Help			