User Manual

BandLuxe C500 Series

PN: 65006900011 Rev.D



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Chapter 1

Getting Started

What's content

BandLuxe C5XX USB dongle modem



Features

 <u>C50x series</u> : support 3.5G, HSPA+ and LTE standard (LTE/HSPA+/HSPA/WCDMA/ EDGE/GPRS)

C52x series : support LTE/EVDO Rev A

- Support SMS Message
- USB Interface
- Support microSD/microSDHC storage
- Support systems: Windows 7, Windows Vista, Windows XP,
- Does not interfere with other USB peripherals
- Multi language interface (English, French, German, Italian, Spanish, Traditional Chinese, Russian, Portuguese, Finnish, Polish, Thai, Dutch and Arabic)
- Plug & Play

Before You Install

Information

Before installing the C50X, we recommend obtaining the following information from the SIM Card Mobile network operator:

Access Point Name (APN)

- For many carriers, the APN may simply be Internet.

Phone Number

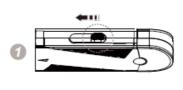
- The Phone Number to dial to establish a network connection. BandLuxe software helps input this number correctly.

Password (Optional)

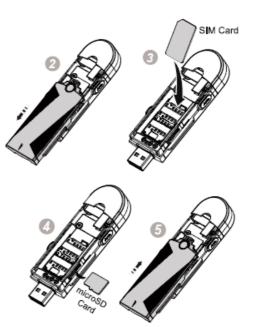
- Some (but not many) carriers require a password.

Notice: BandLuxe C5XX is a radio device. Please be aware to keep metal materials away from the device.

Insert the SIM Card & microSD Memory Card







- 1. USB connector can be extended by shifting the switch (fig. 1)
- 2. Remove the front cover.(fig. 2)
- 3. Follow the arrow direction insert the SIM card(fig. 3)
- micro SD card reader is equipped. Golden color contact of microSD card should be faced up to insert. (fig. 4).
 *micro SD card is an optional purchased accessory.
- 5. Replace the front cover

Hardware Installation

With the SIM card properly inserted, the C5XX may now be installed into the computer via USB port.

- 1. Insert the C5XX into the computer.
- The LED should light up when connection is established, though it may be obscured.



Software Installation

The process and appearance of certain software elements in Windows Vista will be somewhat different than in XP. These differences are minor and should not limit the functionality of the C5XX in any way.

New Hardware Detection

Windows XP

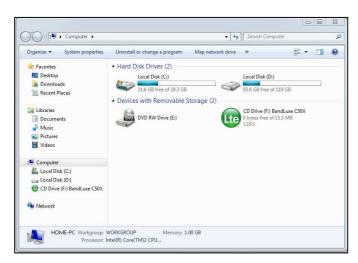
Once the C5XX is connected, a dialog box should pop up from the Toolbar Hardware Connection Icon. The device will be identified as the BandLuxe C5XX LTE Utility.

Windows Vista / Windows7

In Vista, a pop-up window may appear. Click Allow to proceed.

After the first pop-up, all other aspects for software installation will be identical in all compatible versions of Windows.

Software installation should proceed automatically. If it does not, it may be initiated from *My Computer*, where the C5XX will be identified as a CD-ROM device. Sometimes a restart will occur during installation. If it does, reinitiate installation from *My Computer*.



Install Shield Wizard

Setup Language

Choose	Setup Language	
Z	Select the language for this installation from the cho	bices below.
-	English (United States)	•]
	OK Cancel	

Preparation

InstallShield Wizard	
N	Preparing to Install
	Mobile Broadband Utility Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
	Checking Operating System Version
	Cancel

The C5XX will automatically use the appropriate language for your OS, if available.

Welcome

😸 Mobile Broadband Utility	- InstallShield Wizard
	Welcome to the InstallShield Wizard for Mobile Broadband Utility
	The InstallShield(R) Wizard will install Mobile Broadband Utility on your computer. To continue, click Next.
	WARNING: This program is protected by copyright law and international treaties.
	< Back Next > Cancel

The Setup Wizard window opens automatically. The first page contains OS compatibility and legal disclaimers. Click **Next** to continue.



License Agreement



Click I accept the terms in the license agreement > Next to continue.

Select Installation Folder



Click Change to manually select a folder.

Change Current Destination Folder

륏 Mobile Broadband Utility - InstallShield Wizard			.
Change Current Destination Folder		1	
Browse to the destination folder.			
Look in:			No.
📸 Mobile Broadband Utility		-	
			17.0
Folder name:			
C: Program Files/BandRich/Mobile Broadband Utility			
Provide the resolution of the carbon card of the second second second second second second second second second			
istallShield	01		Concert.
	OK		Cancel

Highlight the folder and click **OK** to select it. Click **Cancel** to close the *Browse* window.

Confirm Installation

🔀 Mobile Broadband Utility - InstallShield Wizard	-X-
Ready to Install the Program	San Street
The wizard is ready to begin installation.	1
Click Install to begin the installation.	
If you want to review or change any of your installation settings, dick Back. Click exit the wizard.	Cancel to
InstallShield	
< Back Install	Cancel

Click **Back** to change any preceding information or settings. Click **Install** to begin installation.

Installation

) Mobile B	roadband Utility - InstallShield Wizard		00
and here and	Mobile Broadband Utility ram features you selected are being install	ed.	
P	Please wait while the InstallShield Wizard This may take several minutes. Status:	installs Mobile Broadband	Utility.
InstallShield -	< Bad	<] Next >	Cancel

Installation time will depend on variable computer.

Installation Complete

🔡 Mobile Broadband Utility - I	nstallShield Wizard	X
	InstallShield Wizard Completed	
	The InstallShield Wizard has successfully installed Mobile Broadband Utility. Click Finish to exit the wizard.	
	Kack Einish Cance	

When installation is completed, click **Finish** to exit. The Connection Manager will open automatically



Home Screen

- 1. Signal Strength
- 2. Minimize
- 3. Radio Technology
- 4. Mobile Network Operator
- 5. Connection Status
- 6. Connection Time Elapse
- 7. Total Data Uploaded
- 8. Total Data Downloaded
- 9. Menu
- 10. Home Screen
- 11. Connect/Disconnect
- 12. Close

Note: The Home screen only indicates LTE (internet) connection status. After installation, the C5XX automatically initiates SMS functions upon successful connection to the computer. Text messages can be sent or received, even if the Home screen indicates no connection.

Menu Screen

SMS: Text message folders such as Inbox, Draft, etc.
Setting: General, SMS, SIM, Radio and Network preferences.
Statistics: Upload/Download graphs, totals and connection log.
Contacts: SIM Card, Outlook and dongle contact lists

Profile: Connection profile setup/options.

Information: IMEI, software, firmware version, and model name.







Chapter 2

Connecting

<u>Chapter 2</u>Connecting

Establishing a Connection

With the C5XX installed, an online connection can be ready to use. The C5XX will automatically scan your system and create a default profile, which should work in the vast majority of cases. To test it, simply click the Connect button.



Connection should take about 5 seconds. When established, the Home screen should show Connected, with the onscreen clock running and the DownLoad/UpLoad tallies running. The toolbar icon (the will also change color to indicate the connection protocol (same

as LED indicator). See Specifications for details.

If connection is unsuccessful, check if the device and SIM card are properly connected and inserted. If they are, a new internet profile may need to be created.

Create a Profile

1. Click **Menu > Profile**. The profile menu will contain the default profile, showing *the operator's name of the SIM card*.

Default	Name	New
ΈS	user2	
	user1	Edit
		Delete
		Default

2. Click **New** to create a new profile. Depending on the carrier, all 5 spaces may not need to be filled to proceed.

Profile Name : Number :	Bandluxe *99#	Save
User Name :		Cancel
Password :		
APN :	internet	Detail

- 3. Choose a *Profile Name*. The name is arbitrary and is helpful when different connection methods are available.
- 4. Inquire with the Mobile network operator (SIM carrier) as to whether the User Name and Password are required.
- 5. The *Password* can be any combination of letters, numbers or symbols and is case sensitive.
- 6. Enter the Access Point Name (*APN*) supplied by the SIM card carrier.

7. Enter the phone number for establishing the wireless connection, supplied by the SIM card carrier; click **Save**.

Default	Name	New
	connect2 connect1 connect3	Edit
		Delete
		Default

- On the *Profile* window, click the newly created profile and then click Default. Click OK to set this profile as the default (only the default can be connected).
- The BandLuxe C5XX is now ready for a wireless connection. Click the Connect icon to establish. Connection should take about 5 seconds. When established, the Home screen should show Connected, with the onscreen clock running and the DownLoad/ UpLoad tallies counting.
- Note: If you switch to a different SIM card, the default profile will no longer be valid. You will have to create a new profile in the manner just described. If you can not access to all the information necessary to create a new profile, just uninstall and reinstall the BandLuxe software. The new default profile should work for the new SIM card

Choose a Profile

Different profiles may be needed, depending on changeable location. 1. Click **Menu > Profile**.

	New
nnect3	Edit
	Delete
	Default
1	nnedž nnedž nnedž

2. Highlight the desired profile and click Default.

Default	Name	New
	connect2 connect1	
CMa	inager 🛛 🔯	Edit
C	Set connect1 to default connection ?	Delete
		Default

3. Click OK on the confirmation window if this is the desired profile.

Default	Name	New
YES	CHT user2 user1	Edit
		Delete
		Default

4. The word YES will appear next to the default profile.



<u>Chapter 2</u>Connecting

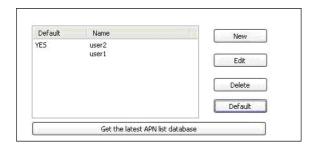
Profile Properties

In the *Profile* window, click **Edit** to adjust the default profile. To adjust a non-default profile, highlight it and then click **Edit**. Click **Detail** on the *Edit* window to view the *Properties* menu, *General* Tab.

eneral Optio	ons Security Networking	Sharing
Connect using	j :	
🗹 🥮 Mode	m - BandLuxe Wideband Mod	em Adapter (COM 🛐
🗆 🎯 Mode	m - Motorola SM56 Speakerph	none Modem (COI
	W	
	1440 - 1111 0 1111 0	
Al devices	a call the same numbers	Configure
🕖 Di <u>a</u> l only fi	rst available device	
Phone numb	perfor BandLuxe Wideband M	lodem Adapter
Ar <u>e</u> a code		lodem Adapter
		lodem Adapter
Ar <u>e</u> a code	Phone number:	
	Phone number:	
Ar <u>e</u> a code	Phone number:	
Arga code	Phone number:	
Arga code	Phone number: • • • • • • • • • • • • • • • • • • •	Alternates
Arga code Country/re	Phone number: • • • • • • • • • • • • • • • • • • •	Alternates
Arga code Country/re	Phone number: • • • • • • • • • • • • • • • • • • •	Alternates

Get the latest APN List Database

The **Profile** provides the APN List Update function. When the network connection is established, the APN List will be updated after clicking this button.



General

Connect using

If other modems are available, they will be listed here. Click **Configure** to adjust the BandLuxe modem settings.

Phone number

Check **Use dialing rules** to access the *Location Information* window to add more specific dialing information such as **tone/pulse dialing**, **current region**, **area & carrier code**, and **outside line access number**.

Click **OK** when completed.

This and other *Properties* menu tabs are generic to the Windows OS and will not be discussed further.

Connecting & Disconnecting



If a default profile has been selected, a connection can be made or ended at any time by clicking the Connect button on the *Menu* screen. However, connection status will not be obvious unless the Home screen is displayed. The *Statistics* or *Signal Information* windows also clearly display connection status.



Chapter 3 **SMS**

Chapter 3 SMS

The Connection Manager allows the standard SMS options as any other mobile devices. The related information, including Contact's name, number, body text and the stored date of each message in the *Inbox, Outbox, Sent* and *Draft* folders will be displayed.

Inbox

It contains received messages. Save, Delete or Reply to Inbox messages by highlighting them and pressing the appropriate button. Highlight a message to make it scroll open above. Unread messages are closed envelopes while read messages are opened.

Name Number Text Date ✓ 886970071015 Outside now 12/15 △ 886970071015 Meet at 3 pm 12/15 △ 886970071015 Ok i understand 12/15 ○ 886970071015 Ok i understand 12/15 ○ B86970071015 Ok i understand 12/15	Inbox	Sent Outbox	🗸 Compose 🎽 Draft 🔪		
886970071015 Meet at 3 pm 12/15 886970071015 Ok i understand 12/15	Name	Number	Text	Date	
Save		886970071015	Meet at 3 pm	12/15	Delete

Received : 12/15/2006 14:12:06 Meet at 3 pm Exit	
Inbox Sent Outbox Compose Draft	
Name Number Text Date	
886970071015 Outside now 12/15	
886970071015 Meet at 3 pm 12/15	
A 886970071015 Ok i understand 12/15 Reply	
Delete	
Save	

Sent

It contains all successfully sent messages. Highlight a message and press $\ensuremath{\text{Delete}}$ to erase it.

Outbox

It contains completed but unsent messages. Send or Delete messages by highlighting them and pressing the appropriate button.

Compose

It contains all tools for creating messages.

To: Contains the Phone Number of the recipient.

Message Body: Key in the content.

то :		
Cover for me at the meeting.	~	
		Send
		Template
	~	Cancel
t	LEnvelope 28/160	

Press to see contact lists.

- SIM Card Contacts
- Outlook Contacts
- 🕍 C5XX Contacts

Cover for me at the meeting.	Inbox Sent Out	box Compose	Draft
Name Number ate george 965578976 Image: Select el tom 437865987 Image: Select image: Select image: Select jill 623489765 Exit Exit image: Select	Cover for me at the	meeting.	
george 965578976 tom 437865987 jill 623489765 mary 349867546 V Exit		Number	ate
	george tom jill mary	965578976 437865987 623489765 349867546	E Select

Highlight a Contact and click **Select** to choose it. Click **Exit** to return to the Compose screen.

Click Template to view all stored templates, or create/delete one.

Highlight a template and click Select to insert it into the message. Click **New** to create a new template. Click **Save** to add the new template to the list of existing ones. Click **Cancel** to return to the Template list window.

Highlight a template and click **Delete** to erase it.

Inbox / Sent / Outbox / Compose / Draft /		
	۲	
I am sorry but I will be home late tonight. Cover for me at the meeting.	Select	
I appreciate your effort in this matter.	Cancel	
	New	
	Delete	

Draft

It contains saved but unfinished messages. Highlight a draft and click **Edit** to send the message back to the *Compose* window.



Chapter 4

Setting

Chapter 4 Setting

General

Check Auto connect on startup to have the C5XX connect to the internet automatically during startup.

Auto connect on startup	
anguage	
English - United States (1)	Save
Connection Mode	
NDIS	
🔿 Modem	

Language

The Connection Manager offers multi languages interface. To choose a language, click the menu to highlight and select a language. Click **Save** to implement the chosen language. The Connection Manager will then return to the Home Screen with the chosen language.

Connection Mode

There are two options for connecting to the internet by using NDIS or Modem. The default setting is in NDIS mode.

SMS

Preference

New SMS Notify: Check to be notified when a new text message arrives. If enabled, the Toolbar Connection Manager Icon will change to an Envelope Icon. An envelope icon will also appear in the upper left corner of the Home screen when a new message arrives.

SMS Service Center

Use default number in phone: Uncheck to manually input service center number.

Click Save after making any changes.

General SMS SIM Radio Network IP	
Preference	Save
SMS Service Center Image: SMS Service Center Image: SMS Service Center Image: SMS Service Center Phone number :	
Phone number : +886931000099	

SIM

Enable/Disable or change the SIM card Personal Identification Number (PIN). Press **Apply** after making any changes. A SIM card must be inserted for this function to be activated.

Enable/Disable		
		Apply
Current PIN	••••	. 46.1
Change PIN code		
New PIN		
		Apply

If a PIN code is enabled, it will be asked during SIM card initialization. After 3 incorrect PIN code entries, the SIM card will be locked. Contact your operator to unlock it.

	Initial SIM card	£
	Please input pin code (3)	57
C	OK Cancel	
Do miniour	орсона орсонаточ	NB.

Radio

Dual Mode- Features various network search options. Note that Auto mode is the default setting. The default preferred sequence is LTE>WCDMA>GSM.

General	SMS SIM Radio Network	¢ IP
Dual M	ode	
Auto		•
	Preferred sequence:	Apply
ſ	LTE WCDMA GSM	·
Ŷ		Ŧ

After making changes to either, click Apply.

Notice: data transferring will be disconnected when you apply new "Radio" setting.

BandLuxe

Chapter 4 Setting

Network

Network Selection

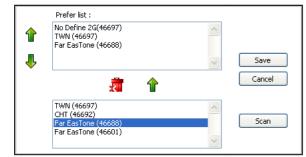
Standard (auto) Search for networks in the order specified in the *Prefer* list. Click Standard (auto) > Next to view and adjust the *Prefer* list.

General SMS SIM Radio Network	P
Network selection	
 Standard(auto) 	Next
Manual	

The top list is the *Prefer* list; the bottom lists all available networks. Click **Scan** to bring up the list of all available networks.

In the *Prefer* list, highlight a network and click the up arrow to the left to move it up the list (increase its preference); clicking the down arrow does the opposite. Clicking the red icon removes the highlighted network from the *Prefer* list.

In the bottom list, highlight a network and click the up arrow above to move that network to the *Prefer* list.

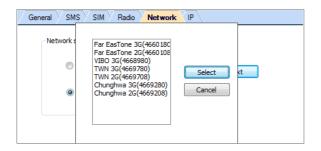


If changes are made, click Save.

Manual

Choose a network from all the available. Click **Manual** > **Next** to see the list. Highlight a network and click **Select**. If no change is needed, click **Cancel**.

Note that **Network** can only be accessed when the C5XX is not connected to a network.



IP

The device can set priority of IPV4 or IPV6. It's allowed to choose preferred IP.

General SMS SIM Radio Network IP	
IP ● IPV4 ● IPV6	Save
	Detail
	Optimize

Click Detail to choose PDP Type to IPV4, IPV6 or both.

General S	iMS $igsty$ SIM $igsty$ Radio $igsty$ Netwo	rk IP	
_ IP	PDP type	X	Save
© C	 IPV4 IPV6 	Apply	Jave
	O IPV4V6	Cancel	Detail
			Optimize

Click Optimize can change MTU setting.

/	Tep Optimization				
	MTU :	Current	Custom	Apply Cancel	



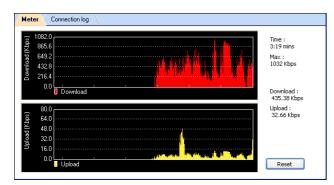
Chapter 5

Statistics & Information

<u>Chapter 5</u>Statistics & Information

Statistics

The *Statistics* screen displays a graph of recent upload and download activities. If there is no data shown, the C5XX is disconnected. Click **Menu > Statistics**.



Time: Elapsed Connection Time

- Returns to zero upon disconnection
- Reset does not affect it
- Max: Maximum Throughput

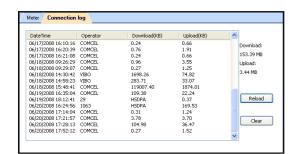
Download: Current Downloading Throughput

Upload: Current Uploading Throughput

Click **Reset** to end the current graphs and start over. This will not affect the actual connection.

Connection log

Click **Menu > Statistics > Connection log** to see data counting by each connection status and accumulated connection status



Each data counting

- DateTime: The date and time of connection log
- Operator: Telecom network operator
- Download(KB): Downloaded Throughput
- Upload(KB): Uploaded Throughput

Accumulated data counting

- Download: Total Downloaded Throughput
- Upload: Total Uploaded Throughput

Click **Reload** to reload the latest data information. Click **Clear** to clear all data counting information

* The data counting here is only for reference, please check operator for real data throughput if any.

Information

The *Information* screen offers version or signal specifications. Click **Menu** > **Information**.

About

Click Menu > Information > About tab to see version data.

IMEI: International Mobile Equipment Identity number

Version: Connection Manager Software Version

F/W Version: Firmware Version

Model: Model name

About

IMEI : 357473040011635

Version : 1.31.055 Build001 Jan 5 2012 Model :C501

F/W Version : QC_0_00013411_0_001_0350 [Jan 5 2012 14:47:27]

Connection Manager © 2011 BandRich Inc. All Rights reserved.



Chapter 6

Q&A

Chapter 6 Q&A

Q: Why does the Home screen display *No Device*?



- A: Make sure that the C5XX is plugged in/inserted correctly. If it is, and *No Device* is still displayed, check the LED.
- If the LED is not lit, the problem could be:
- The USB port is not activated. Check the Device Manager.

Q: The Home screen is stuck on *Initial SIM Card*, what should I do?

- A: Replug/reconnect the C5XX . If this does not work, restart the computer. If reconnection doesn't make the C5XX activate, check the SIM card, which may have a poor connection or be locked.
- Q: The SIM card is working, so why can't the C5XX make a connection?



A: Check the profile information; click Menu > Profile. See Chapter 2 for details.

If profile setting is in order, the radio or network setting may need adjustment. Click **Menu > Setting**. See *Chapter 4* for details. If *Radio* and *Network settings* are in order, please check the signal strength indicator in the upper left corner of the Connection Manager.

Q: How do I import contacts into the Connection Manager?

A: Click Menu > Contacts >

- Import from the SIM Card.
- Import from Outlook.

Import from the C5XX Contacts folder.

Q: Can I prevent others from using my C5XX ?

A: Yes. Click Menu > Setting > SIM to enable or change the SIM card PIN code.

Enable/Disable		
Current PIN	••••	Apply
Change PIN code		
New PIN		
Confirm PIN		Apply

Q: Why do some SMS text symbols display incorrectly on the receiving phone?

A: This is related to the different decoding schemes used by various mobile phones. Known problem symbols include:
~! @ # \$ % ^ & * () _ + ` - = { } ! : " <> ? [] \; ', . /

Q: The Install Shield Wizard does not automatically pop-up when I first plug in the C5XX, what should I do?

A: In *My Computer*, right click on the drive with the Connection Manager icon and select AutoPlay. This should initiate the Install Shield Wizard.



BANDLUXE C5XX (H:)

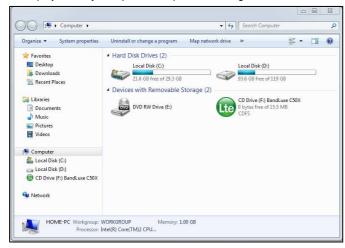




Chapter 6 Q&A

Q: My computer cannot boot with the C5XX connected. Why?

A: As discussed in Chapter 1, during installation the C5XX is displayed in *My Computer* as a portable storage device.



The computer treats the C5XX as if it were a CD drive. Therefore, your computer may be trying to boot from it, as if it were expecting a Boot CD. Disconnect the C5XX before booting.

Q: How do I view the .pdf Quick Start Guide and User Manual?

A: Click Start > Programs > BandLuxe > Mobile Broadband Utility and choose either document. Both files require Adobe Acrobat 6.0+.

Q: The Connection Manager is having troubles running on Vista. What should I do?



- A: You may have a problem with Vista's user control functions.
 - 1. Open the Connection Manager folder.
 - 2. Right click CManager.exe > Properties > Compatibility tab.
 - 3. Check Run this program as an administrator.



4. Click **Apply** > **OK**.

Q: What microSDHC[™] card tested in the BandLuxe C50X?

A: BandLuxe C5XX have microSDHC reader and support up to 16GB microSDHC cards. Due to the availability of microSDHC cards, we recommend SanDisk microSDHC cards.





Chapter 7

Important Safety Information and Glossary

Safety Information

Important Notice

Due to the transmission and reception properties of cellular communications, data can occasionally be lost or delayed. This can be due to the variation in radio signal strength that results from changes in the characteristics of the radio transmission path.

Although data loss is rare, the environment where you operate the C5XX may adversely affect communications. Variations in radio signal strength are referred to as fading. Fading is caused by several different factors including signal reflection, the ionosphere, and interference from other radio channels.

BandRich Inc. or its partners will not be held responsible for damages of any kind resulting from the delays or errors in data transmitted or received by the BandLuxe C5XX or failure of the BandLuxe C5XX to transmit or receive such data.

BandLuxe[™] is a registered trademark of BandRich Inc.

Potential Hazards

Do not operate the BandLuxe C5XX in an environment that may be susceptible to radio interference resulting in danger; specifically:

Areas where prohibited by the law.

 Follow any special rules and regulations and obey all signs and notices. Always turn off the host device and remove the C5XX from the card slot when instructed to do so, or when you suspect that it may cause interference or danger.

Where explosive atmospheres may be present.

- Do not operate your C5XX in any area where a potentially explosive atmosphere may exist. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Be aware and comply with all signs and instructions.
- Users are advised not to operate the C5XX while at a refueling point or service station. Users are reminded to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.
- Areas with a potentially explosive atmosphere are often but not

always clearly marked. Potential locations can include gas stations, below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

Near Medical and life support equipment.

 Do not operate your C5XX in any area where medical equipment, life support equipment, or near any equipment that may be susceptible to any form of radio interference. In such areas, the host communications device must be turned off. The C5XX may transmit signals that could interfere with this equipment.

On an aircraft, either on the ground or airborne.

In addition to FAA requirements, many airline regulations state that you must suspend wireless operations before boarding an airplane. Please ensure that the host device is turned off and your C5XX is removed from the card slot prior to boarding aircraft in order to comply with these regulations. The C5XX can transmit signals that could interfere with various onboard systems and controls.

While operating a vehicle.

The driver or mobile network operator of any vehicle should not operate a wireless data device while in control of a vehicle. Doing so will detract from the driver or mobile network operator's control and operation of that vehicle. In some countries, operating such communications devices while in control of a vehicle is an offense.



Regulations

CE Marking

This device has been tested to and conforms to the regulatory requirements of the European Union and has attained CE Marking. The CE Mark is a conformity marking consisting of the letters "CE". The CE Mark applies to products regulated by certain European health, safety and environmental protection legislation. The CE Mark is obligatory for products it applies to: the manufacturer affixes the marking in order to be allowed to sell his product in the European market.

This product conforms to the essential requirements of the R&TTE directive 1999/5/EC in order to attain CE Marking. A notified body has determined that this device has properly demonstrated that the requirements of the directive have been met and has issued a favorable certificate of expert opinion. As such the device will bear the notified body number after the CE mark. C501 is marked with CE1177 and C508 is CE2200.

The CE Marking is not a quality mark. Foremost, it refers to the safety rather than to the quality of a product. Secondly, CE Marking is mandatory for the product it applies to, whereas most quality markings are voluntary.

The device obtained the following R&TTE standards for MAX SAR EN 62311 EN 62209 Where R&TTE follows to European standard (ICNIRP)

15.21 Federal Communications Commission (FCC) Statement

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b) Federal Communications Commission (FCC) 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 or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
 You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- this device must accept any interference, including interference that may cause undesired operation of the device.



FCC RF Radiation Exposure Statement:

- This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 0.5 centimeters between the radiator and your body

SAR compliance has been established in a laptop computer with side USB port configuration as tested in this filing, and can be used in laptop computers with substantially similar physical dimensions, construction, and electrical and RF characteristics. Compliance of this device in all final host configurations is the responsibility of the Grantee. End-users must be provided with specific information required to satisfy RF exposure compliance for all final host devices.

Max. SAR levels: 1.1 W/kg in avoid of radio interference, please do not use this device close to another transmitters.

The FCC identifier of C505 is UZI-C505.

The FCC identifier of C525 is UZI-C525.

Specifications

System Requirements

Operating System: Windows 7, Windows Vista, Windows XP SP2+,

Web Browser: Internet Explorer 6.0+

LED Indicators

Color	Indicator	Flashing	Solid
Off	Not Connected	NA	NA
		No. or vor or /	Error (SIM card
Red 🔴	SIM Card/Service	No coverage/	missing, failed
		still searching	verification)
Green 🌑	WCDMA	Available	Connected
Blue 🌒	LTE/HSPA+/HSPA	NA	Connected
Pink/Purple ●/	GPRS/EDGE	Available	Connected

Hardware

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Weight:

Onboard Memory: 128 MB NAND Flash

32g

Model	C501	C501A	C502	C505	C506A	C508	C509	C525
DL Peak Data Rate	100 Mbps	100 Mbps	100 Mbps	100 Mbps	100 Mbps	68 Mbps	68 Mbps	100 Mbps
UL Peak Data Rate	50 Mbps	50 Mbps	50 Mbps	50 Mbps	50 Mbps	17 Mbps	17 Mbps	50 Mbps
LTE Band	2600 (B7), 1800	1800 (B3)	2600 (B7), B20	700 (B17), AWS	700 (B13)	2300 (B40)	2500 (B38)	B13, B12, B4
EVDO Rev A	NA	NA	NA	NA	NA	NA	NA	BC0(800), BC1(PCS), BC15(AWS)
HSPA/ UMTS Band	2100, 900	2100, 900	2100, 900	AWS, 850, 1900	No	2100	2100	NA
EDGE/ GSM Band	850, 1900, 900,	No	850, 1900, 900,	850, 1900	No	900, 1800	900, 1800, 850,	NA
Diversity band	2600 (B7), 1800	1800 (B3)	2600 (B7), B20	700 (B17), AWS	700 (B13)	2300 (B40)	2500 (B38)	B13, B12, B4

77.5 x 27.5 x 14.5 mm Typical (USB retracted)

Environment

Operation Temperature	0°C to 45°C (32°F to 112°F)
Storage Temperature	-20°C to 65°C (-4°F to 149°F)

Connectivity

Internet:	NDIS
Data Speed	Downlink: 100 Mbps* (Max)
in bps:	Uplink: 50 Mbps
IP Settings:	APN, DNS, DHCP vs. Static, Radius

* Varies from different channel bandwidth.

Glossary

2G: Second-generation mobile networking technology. Represents a switchover from analog to digital; most 2G networks use GSM.

3G: Third-generation mobile networking technology that enables simultaneous transfer of voice and non-voice data; most 3G networks use WCDMA.



3.5G/ HSPA: A more recent standard of mobile networking technology; generally uses HSDPA

3.75G/ HSPA: A more recent standard of mobile networking technology; generally uses HSUPA

4G/LTE: LTE is the next-step of the evolution of UMTS (3G) and HSDPA (3.5G), now known as 4G.

APN (Access Point Name/Network): Provides GPRS routing information. Consists of:

Network ID: Identifies the external service requested by a GPRS user.

Mobile network operator ID: Specifies routing information.

ARFCN (Absolute Radio Frequency Channel Number): The specific ID numbers for all radio channels used in cellular mobile communications.

bps (bits per second): How data flow is measured.

DNS (Domain Name System): Helps route network traffic by making the addressing process more user-friendly.

DHCP (Dynamic Host Configuration Protocol): How devices obtain IP addresses from a server.

EDGE (Enhanced Data GSM Environment/Enhanced Data for Global Evolution): Advanced GPRS that delivers multimedia and other data needing greater bandwidth at up to 237 kbps.

GPRS (General Packet Radio Service): Delivers data in packets at up to 86 kbps.

GSM (Global System for Mobile Communications): The most popular cellular network, mostly operates in 850-900 or 1800-1900 MHz; the primary 2G system.

IMEI (International Mobile Equipment Identity): A number unique to each GSM/UMTS device that can be used block network access by a stolen mobile device.

IP (Internet Protocol): Routes packets over a network.

HSDPA (High Speed Downlink Packet Access): Advanced WCDMA that delivers downlink bandwidth intensive data at up to 7.2Mbps; typically associated with 3.5G.

HSUPA (High Speed Uplink Packet Access): Advanced WCDMA that delivers uplink bandwidth intensive data at up to 5.76Mbps;

typically associated with 3.75G.

3.75G/HSPA+ (High Speed Packet Access +): This is also known as HSPA Evolved, is the next step and is more focused on delivering data service enabling speeds of up to 42Mbps in the downlink and 11Mbps in the uplink..

LTE(long term evolution): LTE is the next-step of the evolution of UMTS (3G) and HSDPA (3.5G), now known as 4G. that delivers downlink bandwidth intensive data at up to 100Mbps and uplink bandwidth intensive data at up to 100Mbps

Kbps (Kilobits per second): A data flow measure; 1024 bits/second.

LAN (Local Area Network): A data network with limited range but good bandwidth.

Mbps (Megabits per second): A data flow measure; 1,048,576 bits/second.

NDIS (Network Driver Interface Specification): a Windows device driver interface that enables a single network interface card to support multiple network protocols.

PPP (Point-to-Point Protocol): An internet connection method.

PIN (Personal Identity Number): Four to eight digital numbers SIM card security code; allows access to the carrier's network.

Rx: Shorthand for Reception.

SIM (Subscriber Identity Module): A small card that contains key mobile device identification, subscription and contact information.

SMS (Short Messaging Service): Allows text messages of up to 160 characters.

Tx: Shorthand for Transmission.

UMTS: Universal Mobile Telecommunications System is one of the third-generation (3G) cell phone technologies

WCDMA (Wideband Code Division Multiple Access): Advanced EDGE that supports 384kbps data flow. Most 3G networks use this standard; aka UMTS.

EVDO (Evolution-Data Optimized) Rev. A: The EV-DO feature of CDMA2000 networks provides access to mobile devices with forward link air interface speeds of up to 3.1 Mbit/s.

