## **Axesstel 1xEV-DO Wireless Modem**

## **User Manual**

Rev: 0.01.01

Axesstel, Inc.

## **Table of Contents**

Introduction	3
Features	3
Safety Precaution	4
Contents	5
Desktop Installation	6
Wall Mount Installation	6
Getting to know the modem	7
Connecting Axesstel EVDO Wireless Modem	8
Configuring Your Wireless Modem	9
USB Driver Installation	14
TCP/IP Settings	16
Troubleshooting	18
SPECIFICATIONS	19

### Introduction

Axesstel's 1xEv-DO Broadband Wireless Modem allows users to "get connected" to high speed data services with unprecedented ease. Powered by QUALCOMM's MSM6500 processor, these modems provide high speed data service through USB and Ethernet interfaces at rates of up to 2.4Mbps download and 153.6 Kbps upload. With RJ-45 Ethernet connection, the users can enjoy true plug and play connection without driver installation.

## Features

- CDMA 1xEV-DO data service with speed up to 2.4Mbps download and 153.6Kbps upload
- Backward compatible to CDMA2000 1xRTT Data service (153.6 Kbps max)
- Receive diversity (2 antennas) for enhanced RF performance
- 4 LED indicators (Power, Signal Strength, Connection, and Ethernet)
- RJ-45 Ethernet and High Speed USB 1.1 data port
- Web based Admin tool
- Desktop or Wall-Mountable
- Optional Range-extending Patch Antenna

## **Safety Precaution**

- 1. Avoid placing the unit in a dusty location, or near a source of gas or fire.
- 2. Do not shake, hit or drop the unit.
- 3. To clean the unit, use only a soft, dry cloth. The chemicals in alcohol, benzine or acetone can damage the surface of the unit.
- 4. Do not twist or pull the cord out of the unit.
- 5. Do not disassemble the phone.
- 6. DO NOT use the power adapter if the power cord is damaged or the unit has been dropped or damaged in any way.
- 7. Only use the power adaptor provided by Axesstel. Do not use the AXESSTEL adapter for any other purpose.
- 8. Use only the antenna provided with the unit. Do not use the antenna for any other purpose.
- 9. Do not use the unit near water, for example, near a bathtub, sink, wet basement, or swimming pool.

NOTE: The input voltage and the shape of the plug on this phone may vary from country to country.

## Contents

After opening the package, check to make sure that you have all the parts shown below. If any piece is missing or broken, please call your agent or customer service. Items marked optional may be available only on select models.

- 1. Main Unit
- 2. Antenna (2)
- 3. AC/DC Adapter and AC Cord
- 4. User's Manual
- 5. USB Cable (Optional)
- 6. Ethernet Cable (Optional)

### **Desktop Installation**

The 1xEV-DO Modem operates by receiving electricity from an electrical outlet.

1 Connect the antennas on the connectors of each side of the unit..

2 Connect the Modem to computer using RJ-45 Ethernet Cable (CAT 5) or USB cable.

3 Move the connection selector switch to USB or Ethernet.

- 4 Connect the power adaptor to the DC 9V socket of the modem.
- 4 Plug the AC adaptor into an appropriate electrical wall outlet.
- 5 Turn on the power switch located next to the DC 9V socket.

## Wall Mount Installation

- . 1 Mark two mounting holes on the wall using the hole locator on the last page of the manual.
  - 2 Drill two holes at the marked locations.
  - 3 Tighten the screws until the head is about 5mm from the wall.
  - 4 Hang the modem on the screw using the two holes in the back.
  - 5 Push the modem down until the unit is firmly locked into place.

### Getting to know the modem

#### **LED** indications

LED	Color	Meaning			
Power	Green	Power is on			
1 OWCI	Off	Power is off			
	Green	Excellent Signal			
Signal	Orange	Good Signal			
Signal	Red	Poor Signal			
	Off	No Signal or Service is present			
Connect	Green	Modem is connected to the CDMA network			
Connect	Off	Modem is not connected			
	Green	PC connected to the Ethernet			
Ethernet	Blinking	Indicates data activity			
	Off	No PC is connected to the Ethernet			

#### **Power ON/OFF Switch**

There's power switch on the front side of the modem.

Turn on the modem by moving switch to ON position. Turn off the modem by moving switch to OFF position.

NOTE: When you turn on the modem, it automatically searches for service signal. When it successfully acquires service signal, the signal LED turns to green, orange or red.

#### **Connection Type Switch**

Connection Type Switch is located between Ethernet port and USB port. Set this switch to Ethernet or USB depending on type of connection you are using.

## **Connecting Axesstel EVDO Wireless Modem**

#### Before you start

- 1. Make sure that your account is active. Please contact your ISP for account setup and activation information.
- 2. Configure your PC to obtain TCP/IP settings automatically from DHCP server feature of Wireless Modem. Refer to "TCP/IP Settings" for more information on how to set up TCP/IP settings on your PC.
- 3. In order to connect multiple PCs to Wireless Modem and share internet connection, you will need a Broadband Router, Ethernet Switch, or Hub. Please refer to instructions on your Broadband Router for information on connecting multiple PCs.

#### Connection using Ethernet port

- 1. Connect coaxial cable to Ethernet port of Wireless Modem.
- 2. Connect other end of coaxial cable to RJ-45 port of your PC's Ethernet network adapter or a network device, such as router or hub.
- 3. Connect the included Power Adapter to Power connector of Wireless Modem. Connect the other end of Power Adapter to an electrical outlet.
- 4. Power on Wireless Modem.
- 5. It will take few seconds for Wireless Modem to establish a connection.

#### **Connection using USB port**

- 1. Power off your PC.
- 2. Connect the included USB Cable to USB port on your PC.
- 3. Connect other end of USB Cable to USB port on Wireless Modem.
- 4. Connect the included Power Adapter to Power connector of Wireless Modem. Connect the other end of Power Adapter to an electrical outlet.
- 5. Power on Wireless Modem.
- Power on your PC. During the boot up process, your PC will recognize Wireless Modem and ask to install Wireless Modem drivers. You need to install Wireless Modem USB driver that was supplied with Wireless Modem. Refer to "USB Driver Installation" for more information.

## **Configuring Your Wireless Modem**

Wireless Modem provides an embedded Web-based Management Utility. Configure your Wireless Modem by using your Web Browser.

Log In

- Open Web browser and enter IP address of Wireless Modem. Default IP address of Wireless Modem is 192.168.0.1
- When prompt for User name and password, enter admin/admin.
- Click on appropriate tab to access System, Network, Security, or Status settings.

### System Window

	D2TERM	IINAL System
	Vendor Name	Axesstel Inc.
System Information	S/W Version	2.4.18-v302 Sep-27-2004 00:03:17
	Host Name	D2TERMINAL CHANGE
Change Password System Upgrade	New Password	Browse UPGRADE
Restore Factory Default	Configuration	RESTORE
Reboot the System		RESTART

Host Name:	Name of the Wireless Modem. You may change this
	name according to your network need.
Change Password:	To change the password of your account, enter your old
	password and new password.
System Upgrade:	To download new firmware.
Restore Default:	Restore all settings to factory default settings.
Reboot System:	Restart Wireless Modem.

#### Network

		Local Area Ne	twork Setup				
	IP Address		192.168.0.1				
LAN	Subnet Mask		255.255.255.0				
	• Fnable	e O Di	sable				
	Range from	192.168.0.2	to 192.168.0	).253			
DHCP Server	DNS IP Addres	SS	216.70.224.17	]			
	DITOR D 1 O			-			
	DHCP Kelay S	APF	0.0.0.0 PLY				
	DHCP Relay S	Server APF Wide Area Net	0.0.0.0 PLY work Setup				
WAN Connection	DHCP Kelay S	Wide Area Net	0.0.0.0 PLY twork Setup				
WAN Connection Physical Address	Type	Wide Area Net EvDO Moden 00:0b:ae:00:00	0.0.0.0 PLY work Setup n V 0:03				
WAN Connection Physical Address PPP Configuratio	DHCP Kelay S	Wide Area Net EvDO Moden 00:0b:ae:00:00	0.0.0 PLY work Setup n V 0:03				
WAN Connection Physical Address PPP Configuratio User ID	Type	Wide Area Net EvDO Moden 00:0b:ae:00:00	0.0.0.0 PLY work Setup n V 0:03 Authentication	Dial Number			

IP Address:	IP address of Wireless Modem. You will access Web-
	based Configuration through this address.
DHCP Server:	Enable if using Dynamic IP Address.
DHCP Server IP Range:	Range of IPs that can be assigned by the DHCP
	Server to each PC.
PPP Configuration:	Enter User ID, Password, Authentication type, and dial
	number of your wireless data network account.
APPLY:	After making changes to Network settings, always
	click APPLY button to saves changes.

### Security

Client Filtering         Local client PC group cannot access specified remote application           I         Local client IP from         0.0.0         o         0.0.0         0           2         Local client IP from         0.0.0         to         0.0.0         0           3         Local client IP from         0.0.0         to         0.0.0         0           4         Local client IP from         0.0.0         to         0.0.0         0           5         Local client IP from         0.0.0         to         0.0.0         0           5         Local client IP from         0.0.0         to         0.0.0         0           6         0.0.0         to         0.0.0         0         0           7         Port F         Local PC IP         Protocol         Port #         Local PC IP           1         TCP         0         0.0.0         4         TCP         0         0.0.0           5         TCP         0         0.0.0.0         4         TCP         0         0.0.0.0           7         TCP         0         0.0.0.0         8         TCP         0         0.0.0.0           9         TCP         0	Fi	rewall S	uppo	rt	OD	isal	le	۲	Enable	•						
I         Local Client PC Group         Port Num           1         Local client IP from         0.0.0         60         0.0.0         0           2         Local client IP from         0.0.0         60         0.0.0         0           3         Local client IP from         0.0.0         60         0.0.0         0           4         Local client IP from         0.0.0         60         0.0.0         0           5         Local client IP from         0.0.0         60         0.0.0         0           5         Local client IP from         0.0.0         60         0.0.0         0           Protocol Port # Local PC IP         Port # Local PC IP           1         TCP w         0         0.0.0         4         TCP w         0         0.0.0           3         TCP w         0         0.0.0         4         TCP w         0         0.0.0           5         TCP w         0         0.0.0         8         TCP w         0         0.0.0           5         TCP w         0         0.0.0.0         8         TCP w         0         0.0.0.0           9         TCP w         0         0.0.0.0         10<	С	lient Filt	terin	g Local cli	ent PC	grou	p cannot acc	ess spec	ified re	mote	aj	oplic	ation			
1         Local client IP from         0.0.0         to         0.0.0         0           2         Local client IP from         0.0.0         to         0.0.0         0           3         Local client IP from         0.0.0         to         0.0.0         0           4         Local client IP from         0.0.0         to         0.0.0         0           4         Local client IP from         0.0.0         to         0.0.0         0           5         Local client IP from         0.0.0         to         0.0.0         0           5         Local client IP from         0.0.0         to         0.0.0         0           Protocol Port # Local PC IP         Protocol Port # Local PC IP           1         TCP ♥         0         0.0.0         4         TCP ♥         0         0.0.0           3         TCP ♥         0         0.0.0         4         TCP ♥         0         0.0.0           5         TCP ♥         0         0.0.0         8         TCP ♥         0         0.0.0           6         TCP ♥         0         0.0.0         8         TCP ♥         0         0.0.0           9         TCP ♥ </td <td></td> <td></td> <td></td> <td></td> <td colspan="3">Local Cli</td> <td colspan="5">lient PC Group</td> <td>Port N</td> <td>umb</td>					Local Cli			lient PC Group					Port N	umb		
2         Local client IP from         0.0.0         to         0.0.0         0           3         Local client IP from         0.0.0         to         0.0.0         0           4         Local client IP from         0.0.0         to         0.0.0         0           5         Local client IP from         0.0.0         to         0.0.0         0           Protocol lient IP from         0.0.0         to         0.0.0         0           Protocol Port #         Local PC IP         Protocol         Port #         Local PC IP           1         TCP ♥         0         0.0.0         4         TCP ♥         0         0.0.0           5         TCP ♥         0         0.0.0         4         TCP ♥         0         0.0.0           5         TCP ♥         0         0.0.0         8         TCP ♥         0         0.0.0           7         TCP ♥         0         0.0.0         8         TCP ♥         0         0.0.0           9         TCP ♥         0         0.0.0         10         Netmeeting User         0.0.0.0           MAC Filtering         Machine that have specified MAC address cannot acces network         MAC Filterin	1	Lo	ocal	client IP fr	om 0.0	0.0.0	)	to 0.0.0.0					(	0		
3         Local client IP from         0.0.0         to         0.0.0         0           4         Local client IP from         0.0.0         to         0.0.0         0           5         Local client IP from         0.0.0         to         0.0.0         0           5         Local client IP from         0.0.0         to         0.0.0         0           Protocol         Port #         Local PC IP         Protocol         Port #         Local PC IP           1         TCP ₩         0         0.0.0         4         TCP ₩         0         0.0.0           3         TCP ₩         0         0.0.0         4         TCP ₩         0         0.0.0           5         TCP ₩         0         0.0.0         4         TCP ₩         0         0.0.0           7         TCP ₩         0         0.0.0         8         TCP ₩         0         0.0.0           9         TCP ₩         0         0.0.0         8         TCP ₩         0         0.0.0           4         OC0.00.00.00         10         Netmeeting User         0.0.0.0         0         0.0.0.0         0           4         OC0.00.00.00	2	Lo	ocal	client IP fr	om 0.0	D.O.(	)	to	0.0.0	0.0					(	)
4       Local client IP from       0.0.0       to       0.0.0       0         5       Local client IP from       0.0.0       to       0.0.0       0         Protocol Port#       Local PC IP       Protocol Port#       Local PC IP       0       0.0.0       0         1       TCP w       0       0.0.0       4       TCP w       0       0.0.0       0         3       TCP w       0       0.0.0       4       TCP w       0       0.0.0       0         5       TCP w       0       0.0.0       4       TCP w       0       0.0.0       0         7       TCP w       0       0.0.0       8       TCP w       0       0.0.0       0         7       TCP w       0       0.0.0       8       TCP w       0       0.0.0       0         9       TCP w       0       0.0.0       10       Netmeeting User       0.0.0.0       0         Machine that have specified MAC address cannot access network         MAC Filtering Support       © Disable       Deny       Allow         1       00:0:0:0:0:0:0       5       0:0:0:0:0:0:0       6       0:0:0:0:0:0:0:0       0	3	Lo	ocal	client IP fr	om 0.0	0.0.0	)	to	0.0.0	0.0					(	)
5         Local client IP from         0.0.0         10         0.0.0.0         0           Protecol         Port#         Local PC IP         Protecol         Port#         Local PC IP           1         TCP w         0         0.0.0         4         TCP w         0         0.0.0           3         TCP w         0         0.0.0         4         TCP w         0         0.0.0           5         TCP w         0         0.0.0         6         TCP w         0         0.0.0           7         TCP w         0         0.0.0         8         TCP w         0         0.0.0           9         TCP w         0         0.0.0         8         TCP w         0         0.0.0           MAC Filtering Support         ©         0.0.0         0         Netmeeting User         0.0.0.0           Allow           Allow           OU 0.0.0.0.0.0.0         0         0.0.0.0.0.0.0           4         00.0.0.0.0.0.0         5         00.0.0.0.0.0         6         00.0.0.0.0.0         0         0            00.0.0.0.0.0         5<	4	Lo	ocal	client IP fr	om 0.0	D.O.(	)	to	0.0.0	0.0					(	)
Packet Forward Specified application to local PC           Protocol         Port #         Local PC IP         Protocol         Port #         Local PC IP           1         TCP ♥         0         0.0.0.0         2         TCP ♥         0         0.0.0.0           3         TCP ♥         0         0.0.0.0         4         TCP ♥         0         0.0.0.0           5         TCP ♥         0         0.0.0.0         6         TCP ♥         0         0.0.0.0           7         TCP ♥         0         0.0.0.0         8         TCP ♥         0         0.0.0.0           7         TCP ♥         0         0.0.0.0         8         TCP ♥         0         0.0.0.0           9         TCP ♥         0         0.0.0.0         10         Netmeeting User         0.0.0.0           MAC Filtering Support         Image: Colsect Colse	5	Lo	ocal	client IP fr	om 0.0	D.O.(	)	to	0.0.0	0.0					(	)
Protocol         Port #         Local PC IP         Protocol         Port #         Local PC IP           1         TCP ♥         0         0.0.0.0         2         TCP ♥         0         0.0.0.0           3         TCP ♥         0         0.0.0.0         4         TCP ♥         0         0.0.0.0           5         TCP ♥         0         0.0.0.0         6         TCP ♥         0         0.0.0.0           7         TCP ♥         0         0.0.0.0         8         TCP ♥         0         0.0.0.0           9         TCP ♥         0         0.0.0.0         8         TCP ♥         0         0.0.0.0           9         TCP ♥         0         0.0.0.0         10         Netmeeting User         0.0.0.0           MAC Filtering Support         ③ Disable         Deny         ○ Allow         0         0.0.0.0.0.0.0.0         0           1         00.00.00.00.00         5         00.00.00.00.00         6         00.00.00.00.00         0         0         0.0.0.00.00.00         0         0         0.0.0.00.00.00         0         0         0.0.0.00.00.00         0         0         0.0.0.00.00.00         0         0         0.0.0.00.00.00         0	P	acket For	wan	d Forward	specifie	ed ar	oplication to I	local PC								
1         TCP w         0         0.0.0.0         2         TCP w         0         0.0.0.0           3         TCP w         0         0.0.0.0         4         TCP w         0         0.0.0.0           5         TCP w         0         0.0.0.0         4         TCP w         0         0.0.0.0           5         TCP w         0         0.0.0.0         6         TCP w         0         0.0.0.0           7         TCP w         0         0.0.0.0         8         TCP w         0         0.0.0.0           9         TCP w         0         0.0.0.0         10         Netmeeting User         0.0.0.0           MAC Filtering Support         © Disable         Deny         O Allow           1         00.0.0.00.00.00         2         00.0.0.00.00         3         00.0.0.00.00.00           4         00.0.0.00.00.00         5         0.0.0.00.00.00         6         00.00.00.00.00           DMZ Server         Open the client PC to public         E         Local client IP address of Virtual DMZ Server         0.0.0		Protoc	ol	Port #		Loc	al PC IP		Prot	ocol		Po	rt #	Lo	ocal PC	IP
3       TCP ♥       0       0.0.0.0       4       TCP ♥       0       0.0.0.0         5       TCP ♥       0       0.0.0.0       6       TCP ♥       0       0.0.0.0         7       TCP ♥       0       0.0.0.0       8       TCP ♥       0       0.0.0.0         9       TCP ♥       0       0.0.0.0       10       Netmeeting User       0.0.0.0         MAC Filtering Support       Image: Control Cont	1	TCP	*	0	0.0.0	.0		2	TCP	~		(	0	0.0.0.0		
5         TCP w         0         0.0.0.0         6         TCP w         0         0.0.0.0           7         TCP w         0         0.0.0.0         8         TCP w         0         0.0.0.0           9         TCP w         0         0.0.0.0         10         Netmeeting User         0.0.0.0           MAC Filtering Support         © Disable         Deny         Allow           1         00.00.00.00.00         2         00.00.00.00         3         00.00.00.00.00           4         00.00.00.00         5         00.00.00         6         00.00.00.00         0           DMZ Server         Open the client PC to public         Local client IP address of Virtual DMZ Server         0.0.0         0.0.0	3	TCP	~	0	0.0.0	.0		4	TCP	~		(	0	0.0.0.0		
7         TCP         0         0.0.0.0         8         TCP         0         0.0.0.0           9         TCP         0         0.0.0.0         10         Netmeeting User         0.0.0.0           MAC Filtering Support         © Disable         Deny         Allow           1         00:00:00:00:00         3         00:00:00:00:00         4         00:00:00:00:00         6         00:00:00:00:00         00:00         00:00:00:00:00         00:00:00:00:00         0         0         0.0.00:00:00:00         0         0         0.0.00:00:00:00:00         0	5	TCP	~	0	0.0.0	.0		6	TCP	~		(	0	0.0.0.0		
9         TCP         0         0.0.0.0         10         Netmeeting User         0.0.0.0           MAC Filtering Support         © Disable         Deny         Allow           1         00.00.00.00.00         2         00.00.00.00.00         3         00.00.00.00.00           4         00.00.00.00.00         5         00.00.00.00         6         00.00.00.00         0           DXZ Server         Open the client PC to public         Local client IP address of Virtual DMZ Server         00.0.0         0.0.0	7	TCP	~	0	0.0.0	.0		8	TCP	~		(	0.0.0.0			
MAC Filtering Machine that have specified MAC address cannot access network           MAC Filtering Support         © Disable         Deny         Allow           1         00:00:00:00:00         2         00:00:00:00         3         00:00:00:00:00         4           00:00:00:00:00         5         00:00:00:00:00         6         00:00:00:00:00         0           DMZ Server         Open the client PC to public         Local client IP address of Virtual DMZ Server         00:00:00         0	9	TCP	~	0	0.0.0	.0		10	Netm	eetin	g	User	User 0.0.0.0		1	
MAC Filtering Support         O Disable         Deny         Allow           1         00:00:00:00:00         2         00:00:00:00:00         3         00:00:00:00:00         4           4         00:00:00:00:00         5         00:00:00:00:00         6         00:00:00:00:00         0           DMZ Server         Open the client PC to public         Local client IP address of Virtual DMZ Server         00:00:00         0 <td< th=""><th>N</th><th>AC Filte</th><th>ring</th><th>Machine</th><th>that hay</th><th>ie sr</th><th>ecified MAC</th><th>addres</th><th>s canno</th><th>ot acc</th><th>29</th><th>s net</th><th>work</th><th></th><th></th><th></th></td<>	N	AC Filte	ring	Machine	that hay	ie sr	ecified MAC	addres	s canno	ot acc	29	s net	work			
1         00:00:00:00:00         2         00:00:00:00:00         3         00:00:00:00:00           4         00:00:00:00:00         5         00:00:00:00:00         6         00:00:00:00:00           DXZ Server         Open the client PC to public         Local client IP address of Virtual DXIZ Server         00:00:00	M	AC Filter	ring	Support		0	Disable	0	Deny	ŗ		0	Allov	v		
4         00:00:00:00:00         5         00:00:00:00:00         6         00:00:00:00:00           DMZ Server         Open the client PC to public           Local client IP address of Virtual DMZ Server         0.0.00	1	00:00:	00:0	0:00:00	]	2 00:00:00:		:00:00:00:00				3	00:00:00:00:		00:00	
DMZ Server Open the client PC to public Local client IP address of Virtual DMZ Server 0.0.0.0	4	00:00:	00:0	0:00:00	]	5	00:00:00:	00:00:00	0			6	00:0	00:00:00:	00:00	
Local client IP address of Virtual DMZ Server 0.0.0.0	D	M7 Sam		Open the oli	ant PC		ublic									
	Lo	cal client	t IP a	ddress of V	/irtual	DM	Z Server					1	0.0.0	0		
Blocking WAN Ping Deny ping request with WAN IP address from hacker	B	locking V	WAN	Ping Der	iy ping	requ	est with WA	N IP ad	dress f	rom h	ac	ker	<u> </u>			

Firewall Support:	Enable/Disable built-in firewall feature.
Client Filtering:	Local Client PC group can not access specified remote application.
Packet Forward:	Enable specific ports to be opened for specific applications.
MAC Filtering:	Block specific MAC addresses.
DMZ Server:	Open a virtual server to public.
Blocking WAN Ping: APPLY:	Deny Ping request from WAN IP. Click APPLY to apply any of the Security setting changes.

#### Status

Local Area Network					
Link Status	Running				
H/W Address	20:61:78:65:73:73				
MTU	1500				
Tx Packet	625				
Rx Packet	637				

Wide Area Network (Dial PPP)							
Link Status	Stopped	мти	0				
My IP	0. 0. 0. 0	Remote IP	0. 0. 0. 0				
Tx Packet	0	Rx Packet	0				

Local Area Network: Wide Area Network: Current operation and connection status of LAN.

Current operation and connection status of WAN.

## **USB Driver Installation**

Power on the PC. After the boot up process, you will see Found New Hardware screen and Add New Hardware Wizard screen.



Insert 1xEV-DO Wireless Modem Installation CD into CD-ROM drive of PC.

Select Specify the location of the driver (Advanced) and click Next.

Follow the onscreen prompts to install the software driver from the CD. The software is located under "Drivers" folder named "USB\_Driver".

When windows locates the device driver, click Next. PC will copy the necessary driver files from the CD.



Click Finish after files are installed. Click Yes to re-start PC. USB Driver Installation is completed.

## **TCP/IP Settings**

You will need to configure your PC to request IP address dynamically from the gateway.

Click the Start button, select Settings, and select Control Panel. Double click the Network Connection icon. Go to Local Area Connection Properties. Select the TCP/IP protocol line that has been associated with your network card. If there is no TCP/IP line listed, you will need to install TCP/IP first.

🛨 Local Area Connection Prope ? 🔀
General Authentication Advanced
Connect using:
Intel(R) PRO/100 VE Network Conne
This connection uses the following items:
<ul> <li>Client for Microsoft Networks</li> <li>File and Printer Sharing for Microsoft Networks</li> <li>QoS Packet Scheduler</li> <li>Internet Protocol (TCP/IP)</li> </ul>
Install     Uninstall     Properties       C Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Show icon in notification area when connected ✓ Notify me when this connection has limited or no connectivity
OK Cancel

Click the Properties of the TCP/IP component.

Choose Obtain an IP address automatically.

Internet Protocol (TC	CP/IP) Properties ? 🔀
General Alternate Configuration	
You can get IP settings assigned aut this capability. Otherwise, you need t the appropriate IP settings.	tomatically if your network supports to ask your network administrator for
⊙ Obtain an IP address automatic	cally
Use the following IP address: -	
IP address:	
S <u>u</u> bnet mask:	
Default gateway:	
⊙ O <u>b</u> tain DNS server address aut	tomatically
O Use the following DNS server a	addresses:
Preferred DNS server:	
Alternate DNS server:	· · ·
	Ad <u>v</u> anced
	OK Cancel

Choose Obtain DNS Server address automatically.

Click Ok to exit Properties. If asked to re-start the PC, click YES.

### Troubleshooting

- Q: My Wireless Modem is not working.
- A: Check for the appropriate power indication on the LED. If no power, check the adaptor (or External Power Supply) connection between the electrical outlet and the modem. Check for the appropriate Received Signal Strength Indication (RSSI), Power, and Message Indication through the designated LED, respectively.
- Q: I can't get good signal. My connection is unstable.
- A: Use Signal LED to check signal strength of current connection. If Signal LED is showing red, it means current signal is weak. Try placing Wireless Modem at different locations or Rotating Wireless Modem to different direction. Avoid areas with high level of radio interference.
- Q: I can't connect to the Internet.
- A: Check with your ISP to ensure your account was properly setup and it is active. Then check TCP/IP settings of your PC and make sure your PC is obtaining IP address automatically from Wireless Modem. For more information on TCP/IP settings, Refer to "TCP/IP Settings"
- Q: How do I renew PC's IP?
- A: Use IP repair feature in the connection. Or use Command window as following.
  - 1. Click Start and Click Run.
  - 2. Type cmd in the prompt and click OK.
  - 3. In Command Prompt (C:\), type ipconfig/release and press Enter.
  - 4. In Command Prompt (C:\), type ipconfig/renew and press Enter.
  - 5. Exit the Command Prompt.

## SPECIFICATIONS

Frequency Range	AXW-D800	TX: 824.64 ~ 848.37 MHz RX: 869.64 ~ 893.37 MHz
	AXW-D1900	TX: 1850 ~ 1909.95 MHz
Channel Bandwidth		CDMA 1.25 MHZ
USB Connector		1 Туре В
Ethernet Connector		1 RJ-45
Power Supply (Adapter)		Input: AC 110~240V 50~60Hz
		Output: DC 9V 1A
Temperature of operation		-20°C~ +50°C
Relative humidity		5% ~ +90%
Temperature of storage		-25°C ~ +75°C
Dimension		160 x 197 x 50 (mm)
Weight (without internal battery)		540g

# **Safety Information**

#### **1. SAFETY INFORMATION FOR FIXED WIRELESS TERMINALS**

#### .POTE NTIALLY EXPLOSIVE ATMOSPHERES

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cauls e an explosion or fire resulting in bodily injury or even death.

#### INTERFERENCE TO MEDICAL DIVICES

Certain electronic equipment may be shielded against RF signal from you wireless phone. (pacemakers, Hearing Aids, and so on) Turn your phone OFF in health care facilities when any regulations posted in these areas instruct you to do so.

RF signals may affect improperly installed or inadequately shielded electronic system in motor vehicles.

#### **.EXPOSURE TO RF ENERGY**

Use only the supplied or an approved replacement antenna.

Do not touch the antenna unnecessarily when the phone is in use.

Do not move the antenna close to, or touching any exposed part of the body when making a call.

# **SAR INFORMATION**

#### THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless modem is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. \* Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output. Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model when tested for use at the when worn on the body, as described in this user guide, is 0.144 W/Kg. (Body-worn measurements differ among models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various and at various positions, they all meet the government requirement for safe exposure. The FCC has granted an Equipment Authorization for this model with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/ oet/fccid after searching on FCC ID: PH7AXWD800.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at http://www.wow-com.com.

\* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a sub-stantial margin of safety to give additional protection for the public and to account for any variations in measurements.

## **SAFETY INFORMATION FOR RF EXPOSURE**

#### **Body worn operation**

This device was tested for typical body-worn operations with the back of the phone kept 15 mm. from the body. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 15 mm. separation distance between the user's body and the back of the phone, including the antenna. The use of belt-clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

## **FCC Compliance Information**

This device complies with Part 15 of 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.

## U.S.A.

# U.S.FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

## **INFORMATION TO THE USER**

NOTE : This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful Interference in a residential installation This equipment generates, uses, and 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 of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

Changes or modification not expressly approved by the party responsible for Compliance could void the user's authority to operate the equipment. Connecting of peripherals requires the use of grounded shielded signal cables.