



USB 598 Modem with



User Guide (Windows)



2131176
Rev 1.1

Important Notice

Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices such as the Sierra Wireless modem are used in a normal manner with a well-constructed network, the Sierra Wireless modem should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. Sierra Wireless accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using the Sierra Wireless modem, or for failure of the Sierra Wireless modem to transmit or receive such data.

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- Where explosive atmospheres may be present
- Near medical equipment
- Near life support equipment, or any equipment that may be susceptible to any form of radio interference. In such areas, the Sierra Wireless modem MUST BE POWERED OFF. The Sierra Wireless modem can transmit signals that could interfere with this equipment.

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Note: Some airlines may permit the use of cellular phones while the aircraft is on the ground and the door is open. The Sierra Wireless modem may be used at this time.

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5,515,013	5,629,960	5,845,216	5,847,553	5,878,234
5,890,057	5,929,815	6,169,884	6,191,741	6,199,168
6,339,405	6,359,591	6,400,336	6,516,204	6,561,851
6,643,501	6,653,979	6,697,030	6,785,830	6,845,249
6,847,830	6,876,697	6,879,585	6,886,049	6,968,171
6,985,757	7,023,878,	7,053,843	7,106,569	7,145,267
7,200,512	7,287,162	7,295,171	D442,170	D459,303
D559,256	D560,911			

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Additional information and updates

For up-to-date product descriptions, documentation, application notes, [firmware](#) upgrades, troubleshooting tips, and press releases, visit www.sierrawireless.com.

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>>| 1: Introducing the USB 598 modem 1

- Welcome
- Feature summary
- Package contents
- System components
- Care and maintenance of your modem

Note: This document applies to you, only if your wireless device is the USB 598 modem from Sierra Wireless.

Welcome

The Sierra Wireless USB 598 modem is a wireless USB modem for cellular and PCS networks, and the GPS frequency band. The modem enhances the functionality of your mobile computing device by adding 2-way messaging and high-speed mobile data in extended areas, compared to wireless local area networks.

This modem allows you to do the following (subject to feature availability), without using a wireline phone or network:

- Connect to the Internet, [VPN](#) and corporate networks
- Send and receive large e-mail messages
- Send and receive [SMS](#) messages
- Use location-based services
- Conduct video-conferencing
- Access streaming, real-time media
- Play games online

Note: You can view this guide online or print it to keep on hand. If you're viewing it online, simply click a topic in the Table of Contents, or a page number in the Index, or any page reference or section reference. (Most text that is blue is a clickable link.) The PDF automatically displays the appropriate page.

Feature summary

Note: For step-by-step instructions to access features of the modem, consult the [online help](#) available with the Watcher® software ([page 34](#)).

The USB modem is designed to provide a wide range of capabilities using **CDMA** network technology. Implementation of these features depends on the particular service provider and account features you have chosen.

Some features described in this manual may not be supported by your service provider or may not be available with your network account. For details of the services and accounts available, contact your service provider.

Wireless modem

Once installed and configured, the modem can connect to the **CDMA** network automatically. You just insert the modem, allow Watcher to autolaunch and authenticate your account on the network, then launch your Internet browser (which you can also configure in Watcher to launch automatically)—you're online!

Alternatively, you can make a high-speed data connection without running Watcher—simply by launching whatever application you want to use (such as your web browser or e-mail application). For details, see the [online help](#) topic “Autoconnect behaviour”.

The modem also allows you to dial up a modem (such as a corporate server).

TRU-Install

TRU-Install™ is a Sierra Wireless feature that installs the necessary software and drivers the first time you insert the modem into your computer. An installation CD is not required.

TRU-Locate

With TRU-Locate™, you can use location-based services (GPS) to query, for example, the network for information on points of interest (POI) that are near your current location, or display driving instructions.

Note: TRU-Locate is subject to feature availability.

Your modem requires an unobstructed view of GPS satellites (in the sky), and, like any other GPS device, might not perform well within forested areas or near tall buildings.

Depending on your account, you may be charged for each position fix or after you have performed a certain number of fixes. For details, contact your service provider.

Depending on the mechanism that the network and your modem use to obtain location information, GPS may not be supported:

- If Network Mode is set to "EVDO Only"
- If you're roaming
- If you do not have network coverage
- Due to other reasons.

If you're having problems using GPS, contact your service provider.

CDMA 3G services

The modem operates over a type of wireless network called [CDMA](#) (Code Division Multiple Access).

CDMA 3G technology provides a variety of connectivity features, depending on your service provider and account:

- [1x-EVDO](#) Rev. A supports Internet connections with data rates up to 3.1 [Mbps](#) (downlink from the network) and 1.8 Mbps (uplink to the network). Average data rates are 450-800 [Kbps](#) (downlink from the network) and 300-400 Kbps (uplink to the network). Actual speed depends on the network conditions.
- [1x-EVDO](#) Rev. 0 supports Internet connections with data rates up to 2.4 [Mbps](#) (downlink from the network) and 153 [Kbps](#) (uplink to the network). Average data rates are 400-700 Kbps (downlink from the network) and 40-80 Kbps (uplink to the network). Actual speed depends on the network conditions.
- [1X](#) supports Internet connections with data rates up to 153 [Kbps](#). Actual speed depends on the network conditions.

Once the connection is established, you can open your browser and connect to any web site that is accessible through the Internet, or access other Internet services (such as e-mail).

The connection is "active" when data transmission is occurring. If data transmission stops for a period of time (determined by the network), the connection becomes dormant.

- Circuit switched (dial-up) data, using the earlier **CDMA IS-95** specification, supports data connections to any dial-in service at rates up to 14.4 **Kbps**.
- QNC (Quick Net Connect) provides a simplified way to dial into an Internet connection (using circuit switched data) where 3G (1xEV-DO or 1X) high-speed **packet** service is not available.
- **SMS** (Short Message Service) allows you to send and receive short text messages using the modem.

Watcher auto-update

The auto-update feature keeps your firmware, drivers and Watcher software up-to-date. You can set your own preferences for when updates are downloaded.

To configure the auto-update feature:

1. In Watcher, click the Menu button  and select **Options**.
2. In the User Options window, select the Check for updates field.
3. From the drop-down list, select how often Watcher should check for updates.
4. Click **OK**.

Additional features of the modem

Beyond the features of the **CDMA** network, the modem provides additional software features:

- PIN security code to protect your modem and account from unauthorized use.
- A wizard to assist with activating your CDMA account.
- Sound options to customize ringtones for SMS messages.
- A Call Log to track outgoing calls and determine the amount of data transferred.

The modem has a microSD™ slot that can be used, with a microSD card (sold separately), for file transfer or storage. For more information, see “[Using a microSD card](#)” on page 22.

Package contents

Your package contains the following items:

- USB 598 modem
- Quick Start Guide
- USB extension cable
- Laptop clip
- Carrying pouch
- Lanyard

Note: To meet FCC (regulatory) requirements, use only the supplied USB extension cable and laptop clip; other cables and laptop clips should not be used.

To install the modem drivers and software, you do not need an installation CD. Your modem uses the Sierra Wireless TRU-Install feature. The drivers and software are installed when you insert the modem into your computer and go through the software installation; an installation CD is not required.

System components

Your modem is just one part of a system designed to provide you with a wide range of communication features. Every component of the system is needed to enable these capabilities.

Your host computing device

Your notebook or desktop computer hosts the modem hardware and runs the communication software: your web browser or e-mail application, and Watcher—the enabling software for the modem.

You may also have other software on your computer that can be used wirelessly with the modem, such as: file transfer applications (FTP), chat or instant messaging, a **VPN** (Virtual Private Network) client, client software for a corporate server application.

The USB modem

The modem provides your computer with a connection to the CDMA wireless network.

The modem fits into a USB slot available on most notebook and desktop computers.

Every [CDMA](#) network operates on one of three radio frequency bands. As a dual-band product, the modem operates on two of these bands (see [page 36](#)), providing a wide coverage area.

The modem drivers and enabling software

The modem drivers and enabling software (Watcher) monitor and manage your wireless connections.

Your modem uses the Sierra Wireless TRU-Install feature—the drivers and software are installed when you insert the modem into your computer.

The device driver software enables the modem to work with your computer's operating system.

Using the Watcher software, you can manage the modem and monitor your connections.

For step-by-step instructions to access features of Watcher, use the application's [online help](#).

CDMA service provider account

Companies that operate [CDMA](#) networks and provide access to these networks are called *service providers*. To use the modem, you must have an account with a CDMA service provider.

Each service provider has its own pricing options. There may be flat rate accounts, which provide you a maximum number of minutes of network usage for a fixed monthly fee. There may be accounts for which you are charged for network usage by the minute or by the amount of data transmitted.

Your account may include a variety of other services such as SMS messaging or location-based services.

Each modem has been provisioned at the factory for use with a particular service provider. This sets the modem to use particular radio channels and enables services specific for that provider.

Note: You can use the Lock Modem feature to prevent others from using your account, should your modem be stolen.

The process of setting up your account is called *activation*. Activation involves action by the service provider and configuration of the modem.

The procedure to configure (activate) your modem is covered in “[Activation](#)” on page 25.

The CDMA wireless network

Note: More information about CDMA networks is available on the CDMA Development Group web site, www.cdg.org.

Note: Most service providers have coverage maps on their web sites.

Note: The fee for service is usually higher when you are roaming (connecting to a network other than the one belonging to your service provider).

This is the worldwide infrastructure providing the radio coverage that allows you to stay connected. Made up of radio towers and a variety of network switches, routers, and servers, the network is an interconnection of many service providers.

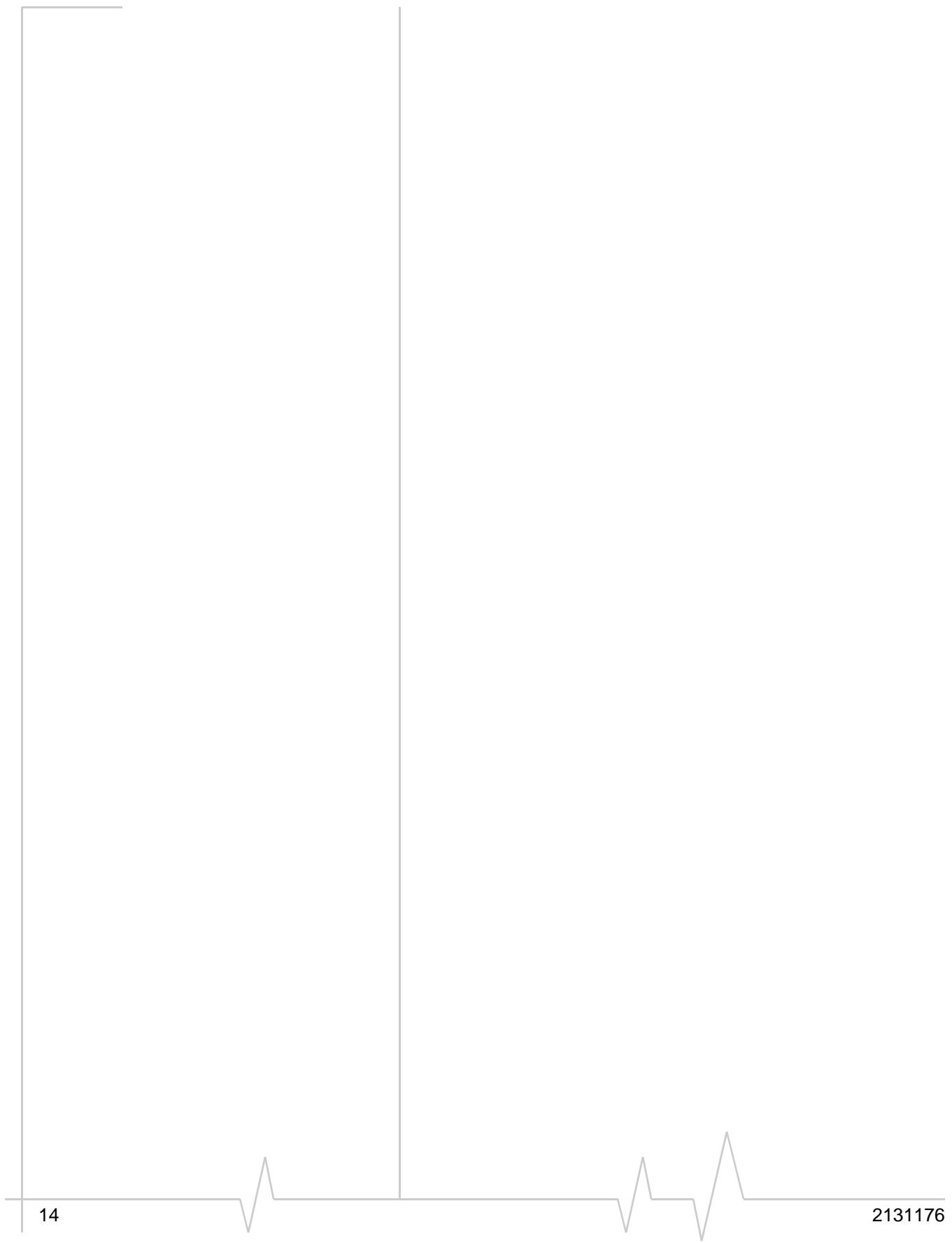
There are **CDMA** networks that operate in the frequency bands supported by the modem throughout North America and parts of Latin America, Asia, and New Zealand. However, each service provider operates a network that covers a limited geographical area within the overall CDMA coverage area.

Most service providers have “**roaming**” agreements with other service providers, so that they can offer service outside of the coverage area of their own networks. For example, assuming you live in Vancouver (Canada), and travel frequently to Seattle (United States), you can obtain an account with a Vancouver service provider that has a roaming agreement with a service provider in Seattle. You would then have local service in Vancouver, and roaming service in Seattle.

Care and maintenance of your modem

As with any electronic device, the modem must be handled with care to ensure reliable operation. Follow these guidelines in using and storing the modem:

- The modem should fit easily into your USB slot. Forcing the modem into a slot may damage connector pins.
- When inserting or removing the modem, always grip it by the sides rather than the end.
- Protect the modem from liquids, dust, and excessive heat.
- When not installed in your computer, store the modem in a safe place.



>>| 2: Getting Started

- [The USB 598 software](#)
- [Account activation and configuration](#)

Before you can begin using the modem, you must:

1. Insert the modem, to install the enabling software and drivers.
2. Activate an account and configure the modem to use your account (unless the modem has been pre-activated).

This section provides an overview of this process.

The USB 598 software

The modem comes with the following software:

- Watcher application that you use to manage the modem and monitor your connections on your computer
- The driver software that provides the interface between the modem and your Windows operating system

Detailed instructions for installing the modem and its software are provided in "[Installation](#)" on page 17.

Account activation and configuration

To use the modem, you must have an account with a [CDMA](#) service provider. The process of setting up an account is called *activation*.

If you purchased the modem directly from a service provider, you may already have an account; your modem may be pre-activated.

Otherwise, run the Watcher software and the Activation Wizard, which guides you through the activation and configuration process. (Depending on your configuration, the software and the activation procedure may start automatically.)

Configuring the modem involves setting the phone number assigned by your service provider and may involve entering other network parameters and settings such as a user name and password to access services.

Your service provider may need to know:

- The billing information to use to collect payment for your network usage.
- The [ESN](#) (Electronic Serial Number) or [MEID](#) (Mobile Equipment Identifier) assigned to your modem during the manufacturing process. (The ESN or MEID is printed on a label on the modem and can be displayed in the software.) This number is used to help authenticate your account when you connect for service.

You require from your service provider:

- An activation code that gives you access to configure the account.
- A phone number for your modem.
- Additional information specific to your service provider such as:
 - A user ID (username) and password to authenticate your network connection.
 - A SID (System IDentifier) that identifies your home network area and is used together with your phone number to determine if you are "home" or "[roaming](#)".

>>|3: Installation

- System requirements
- Installing the modem and software
- Removing the modem
- Using the USB extension cable and laptop clip
- Using a microSD card

This chapter guides you through the steps necessary to install the modem on a notebook or desktop computer.

The basic steps are:

1. Insert the modem into the USB slot to install the modem drivers and software.
2. If the modem has not been pre-activated, use the Activation Wizard to configure the modem (as described in “Activation” on page 25).

Before you begin the installation process, ensure your computer meets the requirements described below.

System requirements

The modem is supported on notebook and desktop computers running:

- Windows 7
- Windows Vista
- Windows XP (Home and Professional versions) with Service Pack 2 or later
- Windows 2000 with Service Pack 4 and Update Rollup 1

To install the modem, you require one USB slot.

Installing the modem and software

Note: If you're running Windows XP, you may require administrative privileges, depending on the Windows XP installation.

If you're running Windows 7, Windows Vista or Windows 2000, you must be logged in with administrative privileges to install the modem software.

If you're running Windows 2000, your computer might be restarted, as part of the installation process; save any open documents.

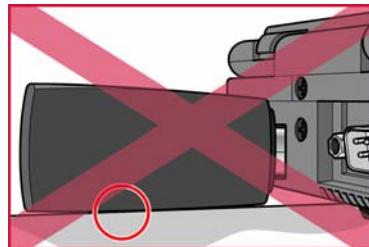
To install Watcher and the modem drivers:

1. If your computer has a WiFi or Bluetooth adapter, turn it off. (For instructions, see the user guide or online Help of your computer).
2. Remove the protective cap from the USB connector of the modem.
3. Gently insert the modem into the USB slot. Alternatively:
 - You can attach the USB extension cable (included in your package) to your computer's USB slot, connect the modem and laptop clip to the USB extension cable, and then attach the laptop clip to the top of your laptop's screen (see page 21 through page 22).

Note: If your computer's USB slot is vertical, use the supplied USB extension cable and laptop clip.

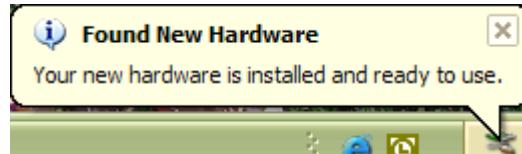
Do not insert the modem or the USB extension cable into a USB hub or, if your keyboard is separate from your laptop, a USB slot on your keyboard.

Warning: If the orientation of your computer's USB slot or the thickness of your computer are such that pressure is applied to the modem's end or side (as shown by the red circle in the drawing below), you may damage the modem or your computer. In such cases, do not insert the modem directly into your computer's USB slot; use the supplied USB extension cable and the supplied laptop clip instead (see [page 21](#)).



4. If the TRU-Install window is not displayed, in Windows Explorer browse to the TRU-Install entry (under **My Computer**), then browse to the **Win** folder and run **Setup.exe**; alternatively, if you're running Windows Vista and the AutoPlay window is displayed, click **Run setup.exe**.
5. In the TRU-Install window, click **OK**.
6. In the "Welcome to the InstallShield Wizard" window, select **Install** to launch the InstallShield® Wizard.
7. If the Open With... window appears, cancel the installation (your computer is missing some files required for the installation). Search for **Instmsiw.exe** (if you're running Windows 2000) among the downloads at www.microsoft.com. Install the file on your computer, remove the modem from your computer, then rerun the installation.
8. If the **Ikernel Application Error** window appears:
 - a) Cancel the installation.
 - b) Download the file:
<http://support.installshield.com/kb/files/Q108312/ikernelupdate.exe>.
 - c) Install the file on your computer, remove the modem from your computer (see [page 20](#)), then rerun the installation.
9. Use the **Next** and **Back** buttons to navigate through the wizard noting the following:
 - To proceed with the installation, you must click **I accept the terms in the license agreement** to indicate your acceptance of the terms of the license agreement.

Windows detects the modem and installs the drivers for it. This may take a few minutes. Once completed, the [system tray](#) may display the message "Your devices are ready to use" or "Your new hardware is installed and ready to use":



10. If you are prompted to restart your computer:
 - a) Save any open documents.
 - b) Select the option to restart your computer.
 - c) Wait until your computer restarts and Windows is ready.
11. When you are notified that the installation is complete, click **Finish**.
12. If Watcher has not started automatically, start it: double-click the Watcher icon
13. Proceed to configure the modem to use your account (if it was not pre-activated). See "[Activation](#)" on page 25.

Removing the modem

To remove the modem:

1. Close Watcher if it is open.
2. If a microSD card is inserted into the modem, ensure you've completed any file transfers.
3. Click the Safely Remove Hardware icon in the [system tray](#) to display the option to stop the device.

Windows Vista	Windows XP	Windows 2000
4. Click the Safely remove USB Mass Storage Device entry (Windows Vista or Windows XP) or Stop USB Mass Storage Device and Stop Sierra Wireless USB 598 EVDO Network Adapter entries (Windows 2000) for the modem.
5. If a dialog box appears notifying you that it is safe to remove the device, click **OK**.
6. Pull the device out of the slot by gripping both sides of the device and pulling the device straight out.

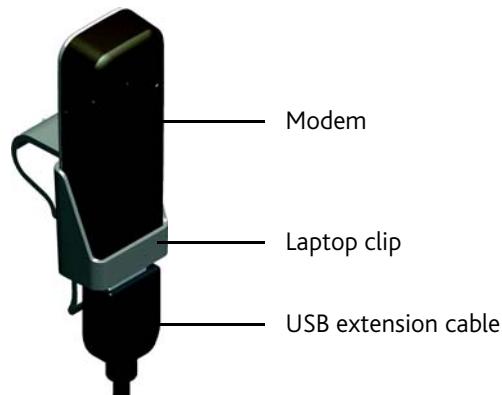
Using the USB extension cable and laptop clip

Optionally, you can use the provided USB extension cable and laptop clip. The laptop clip fits on top of your laptop screen and holds your modem. This allows you to use your modem in crowded spaces.

Note: To meet FCC (regulatory) requirements, use only the supplied USB extension cable and laptop clip; other cables and laptop clips should not be used.

To connect the USB extension cable and laptop clip:

1. Remove the protective cap from the USB connector of the modem.
2. Slide the modem into the laptop clip.
3. Connect the USB extension cable to the modem.



4. Insert the other end of the USB extension cable into the USB slot of your computer.

When the modem and the cable are properly connected, the  LED indicator is lit (blue, or blinking amber).

5. Place the laptop clip, with the modem in it, on top of your laptop screen, as shown in the photo below.



Using a microSD card

Your computer recognizes the microSD card as a removable storage device.

Note: If your microSD card has not been formatted, or is in a format that your computer does not recognize, you will need to format the microSD card before you can use it on your Windows computer. The formatting procedure erases all the data on the microSD card, after which the files CANNOT be retrieved. To prevent the loss of important data, please check the contents before you format the microSD card.

The modem supports microSD cards up to 32 GB capacity.

Note: Using microSD cards larger than 32 GB can cause data loss and damage your modem.

Inserting the microSD card

To insert the microSD card:

1. Gently flip open the tab (labelled "microSD") on the side of the modem (1), as shown in the photo below.



2. Hold the modem with the LEDs facing up.
3. Gently insert the microSD card (label facing up—see the above photo) into the slot on the side of the modem (2) until the microSD card clicks into place.

Removing the microSD card

To remove the microSD card:

1. Ensure you've completed any file transfers.
2. Safely remove the hardware:

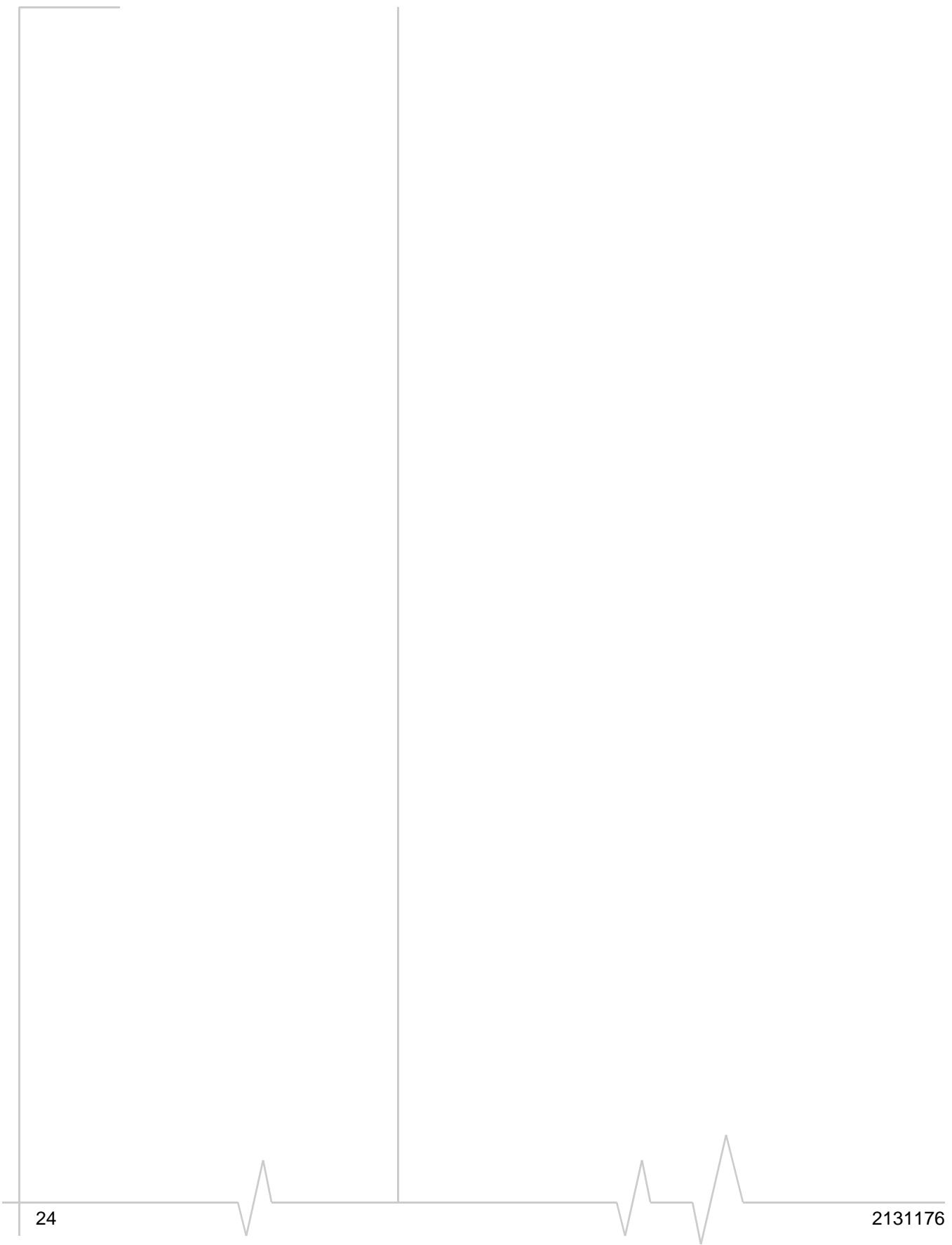
Windows Vista and Windows XP: Click the Safely

Remove Hardware icon (in Windows Vista; in Windows XP) in the system tray, and click the Safely remove USB Mass Storage Device entry for the microSD card.

Windows 2000: Click the Safely Remove Hardware icon in the system tray, and click the Stop USB Mass Storage Device entry for the microSD card.

3. Using your fingernail or a thin blunt object, gently press the microSD card in and then release; it should partially pop out of its slot, as shown in the photo.
4. Remove the microSD card and store it in a safe place.
5. Close the tab over the microSD slot of the modem.





>>| 4: Activation

- Account configuration procedures

Account configuration procedures

The final step to making the modem operational is configuring it to use your CDMA service provider account. The process of activation configures your modem with the required account parameters (phone number, username, password, and so on).

If you purchased a pre-activated modem, this step is not necessary. Once the application software and drivers are installed, the modem is ready for use. Proceed to “[Watcher Basics](#)” on page 27.

Otherwise, you must either allow use the Activation Wizard to activate and configure your account.

Activation Wizard

The Activation Wizard walks you through the process of configuring an account. The process and options vary based on the service provider.

This section is a guide only. Consult the Quick Start Guide, and follow the directions on screen and instructions given by your service provider representative.

If your modem does not have an activated account, and Watcher has started automatically, then the Activation Wizard should start automatically. If this does not happen:

1. Ensure Watcher is running. If it is not, double-click the Watcher icon  on your desktop.
2. Start the Activation Wizard: click the Menu button  and select **Activation Wizard**.
3. If the **Automated Activation** option is not available, select **Manual Activation** and go to “[Manual activation](#)” on page 26.
4. Select the **Automated Activation** option.

The activation progress is displayed in the Activation Wizard window. If the process is successful, the window displays “Activation successful”.

Note: If the window does not display “Activation successful”, retry the process. If the process continues to fail, use manual activation (below) or contact your service provider.

At this point your modem is ready to use.

Proceed to “[Watcher Basics](#)” on page 27.

Manual activation

Manual activation involves phoning your service provider, exchanging information, and entering your account information into the appropriate fields in the wizard. (To use this method, you require a phone.)

Use the **Next** and **Back** buttons to navigate through the wizard, noting the following:

- Prepare your billing information, before you phone the service provider or proceed to the next window.
- Contact your service provider. Inform your service provider that you are activating a Sierra Wireless wireless device. The representative will request your **ESN** (Electronic Serial Number) or **MEID**. This is displayed in the Activation Wizard (and is printed on the modem box and on the label on the back of the modem).
- As prompted by the wizard, enter the information provided by the service representative.
- Select **Finish** in the final window of the wizard.

On completion of the Activation Wizard, the modem is ready for use. Proceed to “[Watcher Basics](#)” on page 27.

>>| 5: Watcher Basics

- Starting and closing Watcher
- Components of the Watcher Window
- Interpreting icons
- GPS Monitor window
- Online Help
- Warranty
- Troubleshooting

Watcher is the application that allows you to manage and monitor the connection between the modem and the [CDMA](#) network. You use Watcher to:

- Determine your signal strength, [roaming](#) status, 3G high-speed data availability, and other network connection parameters
- Initiate and end data calls
- Use location-based services (subject to feature availability)
- View call statistics
- Receive and send SMS messages
- Customize features and options

Depending on Watcher settings, you may be able to connect to the CDMA network without starting Watcher—simply by launching whatever application you want to use (such as your web browser or e-mail application); for details, see the [online help](#) topic “Autoconnect behaviour”. However, Watcher and its icon in the system tray won’t be available for you to monitor the status of the connection. Location-based services also won’t be available.

Starting and closing Watcher

Depending on your settings in the Options window, Watcher may launch automatically anytime you insert the modem. You can also launch Watcher by:

- Double-clicking the Watcher icon  on your desktop
- Selecting:
In Windows 7, Windows Vista or Windows XP: **Start > All Programs > Sierra Wireless > Watcher > Watcher**;
In Windows 2000: **Start > Programs > Sierra Wireless > Watcher > Watcher**.

The standard Windows control buttons in the upper right corner of the window are used to minimize or close Watcher. When minimized, Watcher does not appear as a taskbar button. Instead, an icon is shown in the [system tray](#), usually at the right end of the taskbar. (See “[Minimized icons](#)” on page 32.)

Components of the Watcher window

The Watcher window has the following items, as shown in [Figure 5-1](#):

- Status indicators (see [Table 5-1](#) on page 29)
- Menu button 
- Buttons to open various windows (these windows can also be accessed by clicking the Menu button)
- Connect/Disconnect button
- Windows control buttons (in the top right corner)

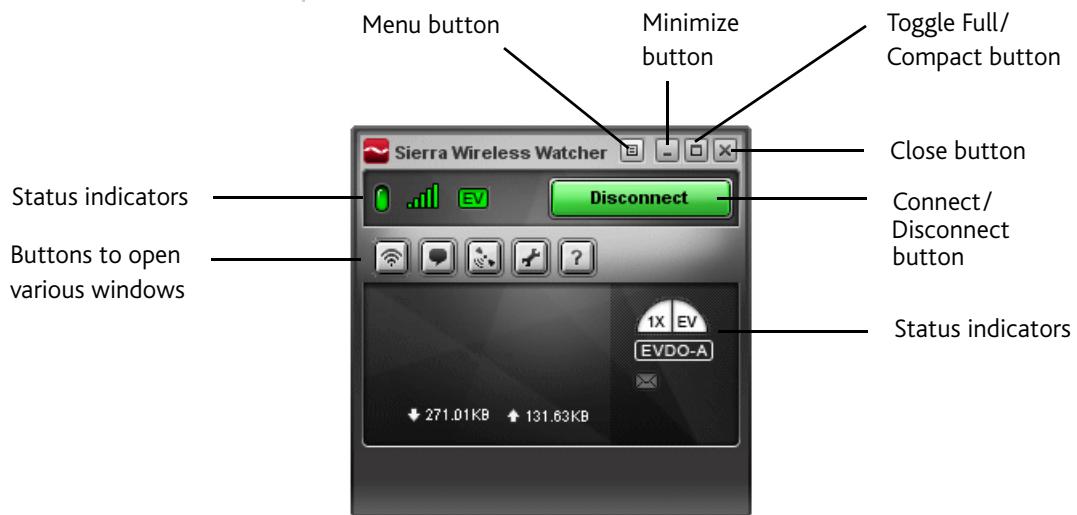


Figure 5-1: Watcher window

For a detailed description of the indicators and windows, see the [online help](#).

Window controls

- The **Minimize** button closes the Watcher window but leaves the application running. When Watcher is minimized, you can use the Watcher icon in the [system tray](#) to determine the modem status. (See “[Minimized icons](#)” on page 32.) This icon replaces a taskbar button for Watcher. Once minimized, you can redisplay the Watcher window by doing one of the following:
 - Clicking the Watcher icon in the system tray
 - Double-clicking the Watcher desktop shortcut
 - Launching Watcher from the Start menu.
- The **Toggle Full/Compact** button  is used to switch between the full Watcher window and the compact view:



The compact view allows you to see connection status and indicators while using less space on the desktop. If you

click the Menu button , a menu is displayed. From this menu you can open other Watcher windows and perform various operations.

To return to full view, click the **Toggle Full/Compact** button in the top right.

- The **Close** button  is used to exit Watcher.

Interpreting icons

Watcher makes extensive use of icons to indicate status and events. The various icons are described in the following table.

Table 5-1: Watcher icons

Icon	Meaning
	<p>Modem not detected.</p> <p>You may be able to resolve this by doing one of the following:</p> <ul style="list-style-type: none"> - Unlocking the modem (from the Menu button , select Unlock Modem) - Powering the modem on (from the Menu button , select Turn Radio On) - Ejecting the modem and re-inserting it <p>If this icon is still displayed, restart your computer.</p>

Table 5-1: Watcher icons (continued)

Icon	Meaning
	Modem detected but not connected to the network.
	Modem detected and connected to the network.
	The Signal Strength indicator uses bars to show the intensity of the radio signal. The number of bars increases as signal strength increases, to a maximum of five bars.
	When the indicator has an "X", no connection is possible, for one of these reasons: <ul style="list-style-type: none"> You are outside the CDMA network coverage area The signal strength is too weak A network or account problem is preventing the modem from obtaining service
	Coverage. This icon indicates the types of service that are currently available. A shaded area indicates this type of service is not available. For example, the icon at the left means 1X service is not available, but EVDO is available. The ToolTip shows the types of coverage available (for example, EVDO Rev. 0 or Rev. A).
	Fastest service available. The icons indicates the fastest service that is: <ul style="list-style-type: none"> Available in your current coverage area Supported by your modem
	The ToolTip shows the types of coverage available. When the indicator has a dark background and no white border, you have acquired service (but have not established a data connection).
	When the indicator has a white border around it, you have a data connection on the wireless service.
	When the indicator has a white background, the network connection is dormant. (You are connected, but there is currently no traffic.)

Table 5-1: Watcher icons (continued)

Icon	Meaning
	<p>The Roaming Status indicator shows whether you are roaming onto the network of a service provider other than your own.</p> <p>When the indicator is off (gray), you are within the local coverage area of your service provider. When the indicator is on (solid black), you are roaming.</p> <p>Your coverage area and account charges depend upon your service provider and the type of account you have.</p> <p>There may be surcharges for roaming service. If there is no roaming agreement between your service provider and the local carrier, you may be unable to establish data connections and use other features.</p> <p>Location-based services may not be available (depending on the settings of your device, the mechanism that the network and your device use to obtain location information, and other factors).</p>
	<p>The SMS message indicator shows whether you have unread messages. A blinking icon indicates that there are one or more urgent or important unread messages.</p> <p>To display the SMS Express window (in which the messages are displayed), double-click the icon, or click the SMS Express button , or from the Menu button select SMS Express.</p>
	<p>If you position the mouse pointer over the GPS icon, the ToolTip shows the GPS status (on or off). Double-click the icon to open the GPS Monitor window (page 32).</p> <p>(Network operator dependent; this icon may not be displayed.)</p>

Minimized icons

Watcher displays an icon in the Windows system tray (which is usually located in the lower right corner of your screen). The system tray icon indicates your connection status or notifies you when you have SMS messages.



Table 5-2: System tray icons

Icon	Meaning
	Watcher cannot detect the modem. Ensure that the modem is powered on, not locked, and properly connected to your computer.
	You are in service on the network but have no active data connection. The number of red bars indicates the signal strength.
	You have an active data connection. The number of green bars indicates the signal strength.
	You have a new SMS message.

Only one icon can be displayed at a time. The priority of icons, from highest to lowest, is:

- No modem detected
- SMS message(s)
- Active or inactive connection.

For example, if you have unread SMS messages, and then establish a data connection, the icon still displays as an unread SMS message.

GPS Monitor window

The GPS Monitor window reports GPS data from your modem.



The modem must have a fix on at least four satellites to report latitude, longitude, altitude, velocity and heading. (The status bar at the bottom of the GPS Monitor window indicates how many satellites are being tracked.)

To open the GPS Monitor window, in Watcher:

1. Click the Menu button  and select **Display GPS**.

- or -

- Click the Display GPS button .

- or -

Double-click the GPS icon  in the main Watcher window (network operator dependent; this icon may not be available).

The GPS Monitor window reports:

- Longitude and Latitude — your coordinates in degrees, minutes, and seconds.
- Direction — your direction in degrees from true north (0), increasing clockwise.
- Speed — calculated based on your current latitude and longitude and the last reading (one second previous). This is either in kilometers per hour or miles per hour, depending on your chosen option.
- Updated — date/time that the GPS values were last acquired. The display format is based on your Control Panel settings in Windows.
- GPS port — port used for GPS activity.
- Altitude — your altitude relative to mean sea level, in either feet or meters, depending on your chosen option.
- HEPE — Horizontal Estimated Position Error. Reflects accuracy (horizontal/vertical precision).

From the GPS Monitor window you can:

- Determine the number of satellites being tracked
- Get your current location
- View a map of your current location
- Start/stop a tracking session
- Configure GPS settings

For detailed information on using GPS and configuring the settings, see the online Help of GPS Monitor.

Online Help

The Watcher and GPS Monitor applications include extensive online help to provide operating hints and step-by-step instructions for getting the most from your modem.

You can access online help in several ways:

- Press <F1> in any window.
- In Watcher, click the Menu button  and select **Help Topics**, or click the Help Topics button  (displays the online Help of Watcher).
- Use Windows Explorer to navigate to **Program Files > Sierra Wireless Inc > Watcher > Help**, and double-click **Watcher_ENU.chm** (for Watcher help) or **GPS_ENU.chm** (for GPS Monitor help).

The help files have a table of contents, an index, and search capabilities.

Warranty

You can access a PDF of the warranty, in:

- Windows 7, Windows Vista or Windows XP: **Start > All Programs > Sierra Wireless > Watcher**
- Windows 2000: **Start > Programs > Sierra Wireless > Watcher**

Troubleshooting

The [online help](#) includes descriptions of most common error messages. Look in the table of contents under Troubleshooting.

For help with other problems:

- Consult the Sierra Wireless web site at www.sierrawireless.com, where you will find an extensive knowledge base that can be searched to address most problems.
- Contact your service provider.

>>| 6: Technical Specifications

- LED operation
- Radio frequency and electrical specifications
- Environmental specifications

This chapter describes the function of the LEDs, and provides technical product data for the modem.

LED operation

The modem has two LED lights. The LEDs operate as follows:

Table 6-1: LED operation

LED	State	Indicates
	Off	<p>The modem has no power, or the LED has been disabled through the software.</p> <p>Check whether any of the following apply:</p> <ul style="list-style-type: none"> • You have powered off the modem. • The modem is not completely inserted into the USB slot. • The computer is in suspend mode, which powers down the modem. • You have set Disable LED (in the General pane of the User Options window) to “Yes” (subject to feature availability).
	Blue, not blinking	The modem has power and is working properly.
	Blue, blinking	The modem’s firmware is being updated. Do not remove the modem.
	Amber, blinking	<p>The modem is searching for service.</p> <p>If this LED state persists:</p> <ul style="list-style-type: none"> • Ensure the modem is properly connected to your computer. • If you are inside a building or near a structure that may be blocking the signal, change the position or location of your computer. • Ensure you are within the CDMA network coverage area. For coverage information, contact your service provider. • Check with your service provider—a network or account problem may be preventing the wireless device from obtaining service.
	Amber, not blinking	An error has occurred. Remove the modem (page 20) and reinsert it.

Table 6-1: LED operation (continued)

LED	State	Indicates
	Off	No service is available. See the suggestions for "Amber, blinking" on page 35.
	Amber, blinking	1X coverage is detected. Ready to connect to the network (click Connect).
	Amber, not blinking	The modem is connected to the 1X network, and can send or receive data.
	Blue, blinking	1x-EVDO coverage (Rev. 0 or Rev. A) is detected. Ready to connect to the network (click Connect).
	Blue, not blinking	The modem is connected to the 1x-EVDO network, and can send or receive data.

Radio frequency and electrical specifications

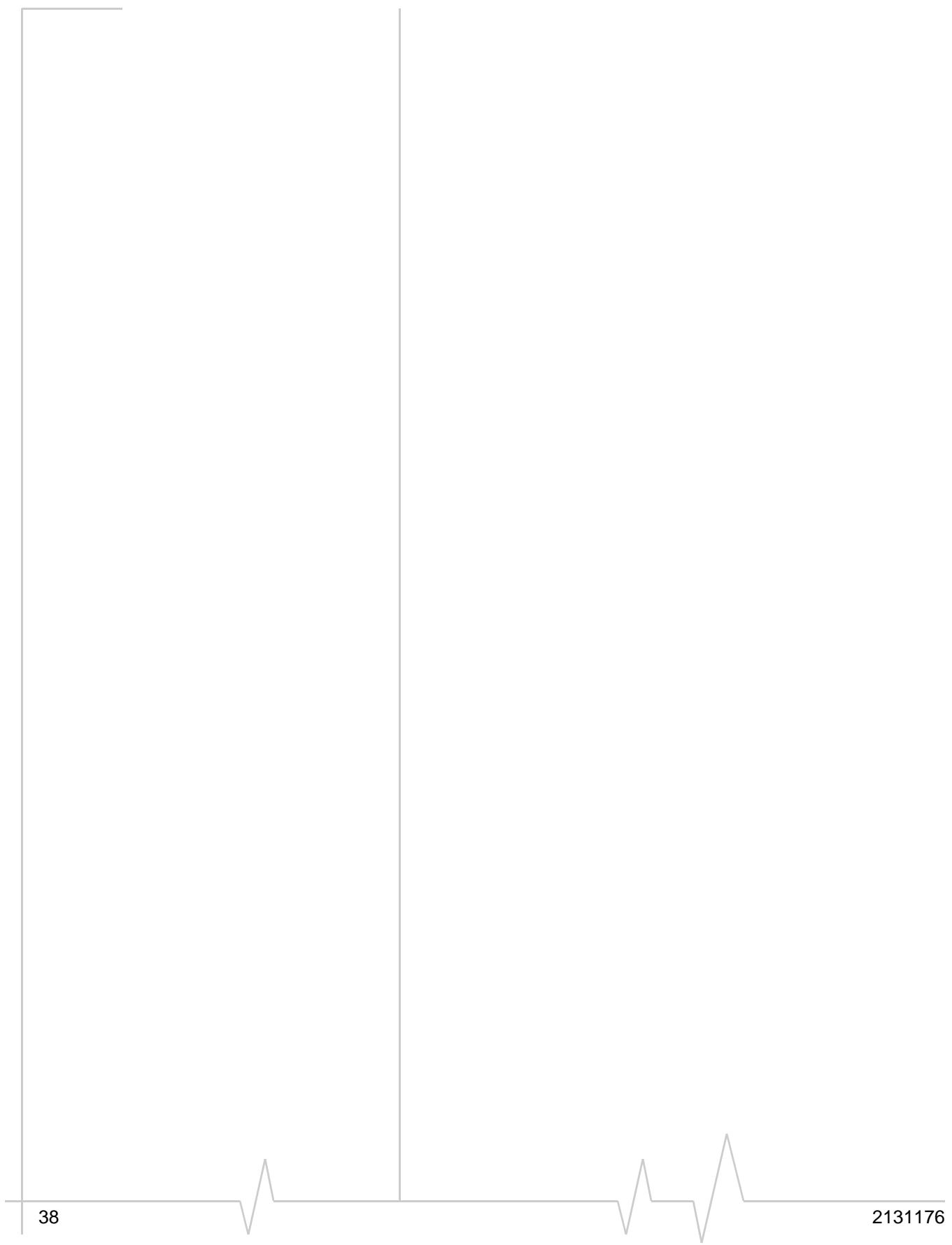
Table 6-2: Radio frequency and electrical specifications

Approvals	Compliant with: IS-2000 Release 1.0 (CDMA 1X) IS-707-A Data, IS-856 (CDMA 1x-EVDO), IS-866, IS-878, IS-890, CDMA Development Group FCC Industry Canada
Voltage	+5.0 Vdc from USB slot
Current	Maximum: 650 mA (from USB port) Typical data call current (talk mode): 300 mA (1X) 390 mA (1xEV-DO) Standby: 55 mA (1xEV-DO/IS2000 hybrid mode)
Transmitter power	250 mW (+24 dBm) average
Transmit	PCS: 1850 to 1909.95 MHz Cellular: 824.04 to 848.97 MHz
Receive	PCS: 1930 to 1989.95 MHz Cellular: 869.04 to 893.97 MHz GPS: 1575.42 MHz
Channel spacing	1.25 MHz
Frequency stability	±150 Hz

Environmental specifications

Table 6-3: Environmental specifications

Operating temperature	-20 to +55°C
Storage temperature	-40 to +85°C
Humidity	95%, non-condensing
Vibration	Random vibration, 10 to 1000 Hz, nominal 6G RMS in each of 3 mutually perpendicular axes. Test duration of 60 minutes for each axis, for a total test time of 3 hours (non-operating).
Drop	1 m on concrete on each of 6 faces, 2 times



>>| 7: Regulatory Information

- Important safety/compliance information

Important safety/compliance information

Note: This USB modem is approved for use in normal-size laptop computers only (typically with 12" or larger display screens). To comply with FCC RF exposure requirements, this modem should not be used in configurations that cannot maintain at least 12 mm (~0.5") from users and bystanders. For example, this modem should not be used in certain laptop and tablet computers and configurations where the USB connectors are unable to provide or ensure the necessary separation is available between the modem and its users to satisfy compliance.

The design of the USB 598 modem complies with U.S. Federal Communications Commission ([FCC](#)) and Industry Canada (IC) guidelines respecting safety levels of radio frequency (RF) exposure for portable devices, which in turn are consistent with the following safety standards previously set by Canadian, U.S. and international standards bodies:

- ANSI / IEEE C95.1-1999, *IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3kHz to 300 GHz*
- National Council on Radiation Protection and Measurements (NCRP) Report 86, -1986, *Biological Effects and Exposure Criteria for Radio Frequency Electromagnetic Fields*
- Health Canada, Safety Code 6, 1999, *Limits of Human Exposure to Radio frequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz*
- International Commission on Non-Ionising Radiation Protection (ICNIRP) 1998, *Guidelines for limiting exposure to time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz)*

FCC ID: N7NU598.

CAUTION: The USB 598 modem must be 1.2 cm or more from users during operation, to satisfy FCC RF exposure requirements. The USB 598 modem has been tested for compliance with FCC / IC RF exposure limits in the laptop computer(s) configurations with horizontal and vertical USB slots and can be used in laptop computers with substantially similar physical dimensions, construction, and electrical and RF characteristics. This USB modem must not be used with any

other antenna or transmitter that has not been approved to operate in conjunction with this modem. **Note:** This USB modem must not be used in any unapproved configurations. For details, contact Sierra Wireless.

WARNING: If the orientation of your computer's USB slot or the thickness of your computer are such that pressure is applied to the modem's end or side, you may damage the modem or your computer. In such cases, do not insert the modem directly into your computer's USB slot; use the supplied laptop clip and USB extension cable instead.

WARNING (EMI) - United States FCC Information - This device complies with Part 15.19(a) (3) 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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15.105(b) of [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. If not installed and used in accordance with the instructions, it 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 distance 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.

WARNING (EMI) - Canada - This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference causing equipment standard entitled "Digital Apparatus", ICES-003 of the Department of Communications.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques", NMB-003 édictée par le ministre des Communications.

If you have purchased this product under a United States Government contract, it shall be subject to restrictions as set forth in subparagraph (c)(1)(ii) of Defense Federal Acquisitions Regulations (DFARs) Section 252.227-7013 for Department of Defense contracts, and as set forth in Federal Acquisitions Regulations (FARs) Section 52.227-19 for civilian agency contracts or any successor regulations. If further government regulations apply, it is your responsibility to ensure compliance with such regulations.

Information pertaining to OEM customers

The USB 598 modem has been granted modular approval for mobile applications. Integrators may use the USB 598 modem in their final products without additional FCC / IC certification if they meet the following conditions. Otherwise, additional FCC / IC approvals must be obtained.

1. At least 20 cm separation distance between the antenna and the user's body must be maintained at all times.
2. To comply with FCC / IC regulations limiting both maximum RF output power and human exposure to RF radiation, the maximum antenna gain including cable loss in a mobile-only exposure condition must not exceed 2.4 dBi in the cellular band and 2.0 dBi in the PCS band.
3. The USB 598 modem and its antenna must not be co-located or operating in conjunction with any other transmitter or antenna within a host device.
4. A label must be affixed to the outside of the end product into which the USB 598 modem is incorporated, with a statement similar to the following:
This device contains FCC ID: N7NU598.
This equipment contains equipment certified under IC: 2417C-U598.
5. A user manual with the end product must clearly indicate the operating requirements and conditions that must be observed to ensure compliance with current FCC / IC RF exposure guidelines.

The end product with an embedded USB 598 modem may also need to pass the FCC Part 15 unintentional emission testing requirements and be properly authorized per FCC Part 15.

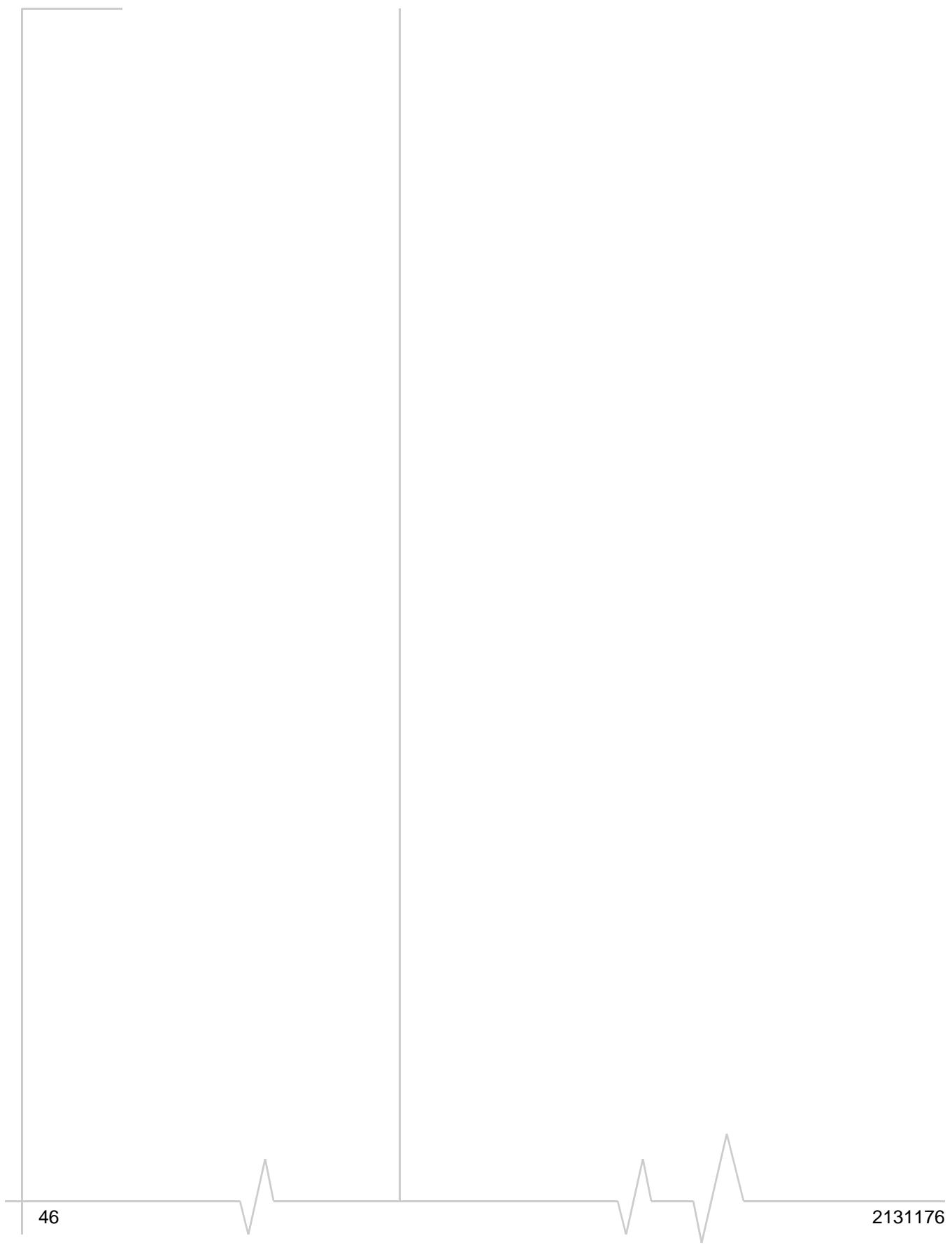
Note: If this modem is intended for use in a portable device, you are responsible for separate approval to satisfy the SAR requirements of FCC Part 2.1093.

>>| Appendix A: Glossary

1X	One Times Radio Transmission Technology (the "one times" refers to the frequency spectrum). Supports Internet connections with data rates up to 153 Kbps . Actual speed depends on the network conditions. Compare to 1x-EVDO .
1x-EVDO	A high-speed standard for cellular packet data communications. Rev. A supports Internet connections with data rates up to 3.1 Mbps (downlink from the network) and 1.8 Mbps (uplink to the network). Rev. 0 supports Internet connections with data rates up to 2.4 Mbps (downlink from the network) and 153 Kbps (uplink to the network). Average data rates are: for Rev. A: 450–800 Kbps (downlink from the network) and 300–400 Kbps (uplink to the network); for Rev. 0: 400–700 Kbps (downlink from the network) and 40–80 Kbps (uplink to the network). Actual speed depends on the network conditions. Compare to 1X .
bps	bits per second—The actual data speed over the transmission medium.
CDMA	Code Division Multiple Access—A wideband spread spectrum technique used in digital cellular, personal communications services, and other wireless networks. Wide channels (1.25 MHz) are obtained through spread spectrum transmissions, thus allowing many active users to share the same channel. Each user is assigned a unique digital code, which differentiates the individual conversations on the same channel.
CDMA 1X	Also known as 1X , this is a high-speed standard for CDMA cellular communications.
dormant	The packet data connection has the logical PPP session left open while the underlying physical link (the radio channel) is released. When traffic is to resume, a radio channel is re-acquired and the original PPP session resumes.
ESN	Electronic Serial Number—The unique first-generation serial number assigned to the modem for cellular network use. Compare to MEID .

FCC	Federal Communications Commission—The U.S. federal agency that is responsible for interstate and foreign communications. The FCC regulates commercial and private radio spectrum management, sets rates for communications services, determines standards for equipment, and controls broadcast licensing. Consult www.fcc.gov .
firmware	Software stored in ROM or EEPROM; essential programs that remain even when the system is turned off. Firmware is easier to change than hardware but more permanent than software stored on disk.
GPS	Global Positioning System—A system that uses a series of 24 geosynchronous satellites to provide navigational data.
host	<ul style="list-style-type: none"> • A computer that uses a modem or a similar device to answer a calling computer. • A source or destination in the communication network. • A computer that contains data or files to be accessed by client computers. Also known as a server.
IS	Interim Standard—After receiving industry consensus, the TIA forwards the standard to ANSI for approval.
IS-95	The standard for CDMA .
Kbps	Kilobits per second—Actually 1000, not 1024, as used in computer memory size measurements of kilobytes.
LAN	Local Area Network
LED	Light Emitting Diode—A semiconductor diode that emits visible or infrared light.
MEID	Mobile Equipment Identifier—The unique second-generation serial number assigned to the modem for cellular network use. Compare to ESN .
Mbps	Megabits per second
MHz	Mega-Hertz—One million cycles per second.
packet	A short fixed-length block of data, including a header, that is transmitted as a unit in a communications network.
PCS	Personal Communications Services—A cellular communication infrastructure that uses a different frequency range than AMPS.
roaming	A cellular subscriber is in an area where service is obtained from a cellular service provider that is not the subscriber's provider.

SMS	Short message services—A feature that allows users of a wireless device on a wireless network to receive or transmit short electronic alphanumeric messages (up to 160 characters, depending on the service provider).
system tray	Usually located in the lower right corner of your screen
TIA	Telecommunications Industry Association—A standards-setting trade organization, whose members provide communications and information technology products, systems, distribution services and professional services in the United States and around the world. Consult www.tiaonline.org .
VPN	Virtual Private Network



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