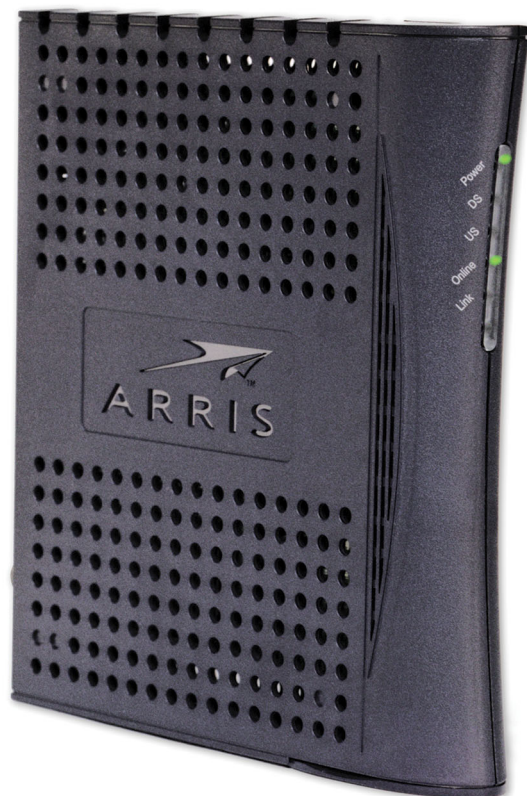


Touchstone™ CM550 Cable Modem

User's Guide



Get ready to experience the Internet's express lane! Whether you're checking out streaming media, downloading new software, or checking your email, the Touchstone CM550 Cable Modem brings it all to you faster and more reliably. The high-speed, always-on connection won't keep you waiting.

The Touchstone Cable Modem provides an USB connection for easy hookup. The Touchstone Cable Modem also provides an Ethernet connection for use with either a single computer or home/office LAN. You can even hook up two separate computers at the same time using both these connections.

Installation can be as simple as making three connections and restarting your computer. Your cable company will provide help with any special requirements.

Follow the links below for more information and detailed instructions.

[Safety Requirements](#)

[Getting Started](#)

[Installing and Connecting Your Cable Modem](#)

[Installing USB Drivers on Your PC](#)

[Using the Cable Modem](#)

[Troubleshooting](#)

[Glossary](#)



Export Regulations

This product may not be exported outside the U.S. and Canada without U.S. Department of Commerce, Bureau of Export Administration authorization. Any export or re-export by the purchaser, directly or indirectly, in contravention of U.S. Export Administration Regulation is prohibited.

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The information in this document is subject to change without notice. The statements, configurations, technical data, and recommendations in this document are believed to be accurate and reliable, but are presented without express or implied warranty. Users must take full responsibility for their applications of any products specified in this document. The information in this document is proprietary to ARRIS.

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Release 5 Standard 1.0 January 2006

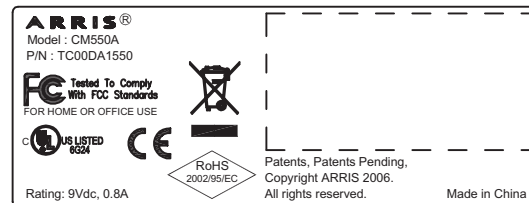
Safety Requirements

ARRIS complies with the applicable requirements for performance, construction, labeling, and information as outlined below:

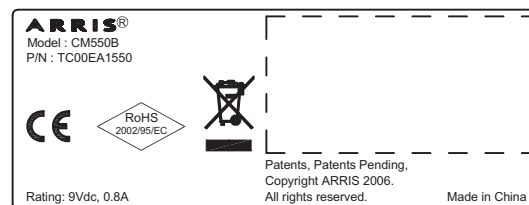
- Do not use the Cable Modem near water (i.e. wet basement, bathtub, sink or near a swimming pool, etc.). Avoid pouring or spilling liquids on the Cable Modem.
- Avoid using and/or connecting the Cable Modem during an electrical storm.
- Do not locate the Cable Modem near a heat source (i.e. heat registers, space heaters, fireplaces, etc.).
- To prevent overheating your Cable Modem, please do not block the ventilation holes on the sides of the unit.
- Use only AC adapter and power cord included with the Cable Modem.
- Install the Cable Modem near an easily accessible AC socket-outlet.

Markings, Symbols, and Labels

Regulatory Symbols (DOCSIS modems)



Regulatory Symbols (Euro-DOCSIS modems)



Functional Indicators

Symbol	Definition
	Instructions: The exclamation point within a triangle alerts you to the presence of important operating and maintenance instructions.
	Alternating Current: A terminal to which or from which an alternating (sine wave) current or voltage may be applied or supplied.
	Direct Current: A terminal to which or from which a direct current or voltage may be applied or supplied.

Radio Frequency Emissions and Immunity

United States Compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Product Safety

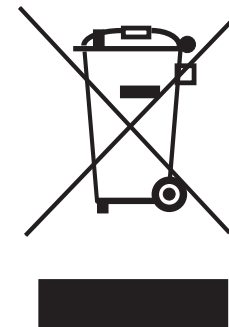
UL listed per UL60950.

European Compliance

This product complies with the provisions of the Electromagnetic Compatibility (EMC) Directive (89/336/EEC), the Amending Directive (92/31/EEC), the Low Voltage Directive (73/23/EEC), and the CE Marking Directive (93/68/EEC). As such, this product bears the CE marking in accordance with the above applicable Directive(s).

A copy of the Declaration of Conformity may be obtained from: ARRIS International, Inc., 3871 Lakefield Drive, Suite 300, Suwanee, GA 30024.

As indicated by the symbol below, disposal of this product or battery is governed by Directive 2002/96/EC of the European Parliament and of the Council on waste electrical and electronic equipment (WEEE). WEEE could potentially prove harmful to the environment; as such, upon disposal of the Cable Modem the Directive requires that this product must not be disposed as unsorted municipal waste, but rather collected separately and disposed of in accordance with local WEEE ordinances.



This product complies with directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances (RoHS) in electrical and electronic equipment.



Getting Started

About Your New Cable Modem

The Touchstone CM550 Cable Modem is a DOCSIS 2.0 or Euro-DOCSIS 2.0 (A-TDMA and S-CDMA) ready cable modem with the following features:

- Speed: much faster than dialup or ISDN service
- Convenience: supports USB 1.1 and Ethernet; both can be used simultaneously
- Compatibility: supports tiered data services (if offered by your cable company)

What's in the Box?

Make sure you have the following items before proceeding. Call your cable company for assistance if anything is missing.

- Cable Modem
- AC Adapter
- Quick Installation Guide
- End User's License Agreement
- USB Cable
- Ethernet Cable
- CD-ROM

What's on the CD?

The CD provides the following items:

- User's Guide
- USB Drivers (Windows 98SE/ME/2000/XP)
- USB Uninstall Utility
- Adobe Acrobat Reader
- ARRIS Contact Information
- End User License Agreement



Items You Need

If you are installing the Cable Modem yourself, make sure you have the following items on hand before continuing:

- **Cable modem package:** see [What's in the Box?](#) for a list of items in the package.
- **Coaxial cable (coax):** as shown in the picture to the left, this is a thin cable with a connector on each end. It is the same kind of wire used to connect your television for cable TV. You can buy coax from any electronics retailer and many discount stores; make sure it has connectors on both ends. (There are two types of connectors, slip-on and screw-on; the screw-on connectors are best for use with your Cable Modem.) The coax should be long enough to reach from your Cable Modem to the nearest cable outlet.
- **Splitter (optional):** provides an extra cable connection by splitting a single outlet into two. You may need a splitter if you have a TV already connected to the cable outlet that you want to use. You can buy a splitter from any electronics retailer and most discount stores; you may also need a short piece of coaxial cable (with connectors); use it to connect the splitter to the cable outlet and then connect the Cable Modem and TV to the splitter.

Note: A splitter effectively cuts the signal in half and sends each half to its two outputs. Using several splitters in a line may slow down or stop Internet communications, or cause snowy TV pictures.

- **Information packet:** your cable company should furnish you with a packet containing information about your service and how to set it up. Read this information carefully and contact your cable company if you have any questions.



Coax Cable

System Requirements

The Touchstone Cable Modem operates with most computers. The following describes requirements for each operating system; see the documentation for your system for details on enabling and configuring networking.

To use the Cable Modem, you need DOCSIS high-speed Internet service from your cable company.

Windows

Ethernet connection: Windows 95, Windows 98, Windows 98 SE (Second Edition), Windows ME, Windows 2000, or Windows XP

USB connection: Windows 98 SE (Second Edition), Windows ME, Windows 2000, or Windows XP

MacOS

Ethernet connection only: System 7.5 to MacOS 9.2 (Open Transport recommended) or MacOS X

Linux/other Unix

Ethernet connection only: Hardware drivers, TCP/IP, and DHCP must be enabled in the kernel



**Ethernet Cable****USB Cable**

Ethernet or USB?

There are two ways to connect your computer (or other equipment) to the Cable Modem. The following will help you decide which is best for you:

Ethernet

Ethernet is a standard method of connecting two or more computers into a Local Area Network (LAN). Use the Ethernet connection if your PC has built-in Ethernet hardware, or does not use Windows, or you want to share the Cable Modem connection with several computers.

Note: To connect two or more computers to the Ethernet port, you need a hub or broadband router (available at computer retailers).

The Cable Modem package comes with a 6-foot (1.9m) Ethernet cable (the connectors look like wide telephone connectors); you can purchase more cables if necessary at a computer retailer. If you are connecting the Cable Modem directly to a PC, or to an Ethernet hub or broadband router with a cross-over switch, ask for Category 5 (CAT5) straight-through cable. If you are connecting the Cable Modem to an Ethernet hub or broadband router without a crossover switch, ask for a Category 5 crossover cable.

USB

USB (Universal Serial Bus) is meant for connecting a variety of accessories, such as keyboards, mice, printers, and communications devices (including cable modems) to a single PC. Use the USB connection if you have only one computer, and the computer is using a Windows operating system (Windows 98 Second Edition or later), and has no built-in Ethernet hardware.

The Cable Modem package comes with a 5-foot (1.6m) USB cable; you can purchase a longer cable—up to 14-foot (4.25m)—at a computer retailer. Ask for a **USB A/B cable**—it has a long narrow connector on one end (to connect to the PC) and a square connector on the other end (to connect to the Cable Modem).

Both

If you have two or more computers, you can connect one computer to the Cable Modem's USB port and one or more to the Ethernet port. To connect two or more computers to the Ethernet port, you need a hub or broadband router (available at computer retailers).

For more information about connecting two or more computers, contact your cable service provider.



What About Security?

Having a high-speed, always-on connection to the Internet requires a certain amount of responsibility to other Internet users—including the need to maintain a reasonably secure system. While no system is 100% secure, you can use the following tips to enhance your system's security:

- Keep your operating system updated with the latest security patches. Run the system update utility at least weekly.
- Keep your email program updated with the latest security patches. In addition, avoid opening email containing attachments, or opening files sent through chat rooms, whenever possible.
- Install a virus checker and keep it updated.
- Avoid providing web or file-sharing services over your Cable Modem. Besides certain vulnerability problems, most cable companies prohibit running servers on consumer-level accounts and may suspend your account for violating your terms of service.
- Use the cable company's mail servers for sending email.
- Avoid using [proxy](#) software unless you are certain that it is not open for abuse by other Internet users (some are shipped open by default). Criminals can take advantage of open proxies to hide their identity when breaking into other computers or sending spam. If you have an open proxy, your cable company may suspend your account to protect the rest of the network.
- If you connect your Cable Modem to a wireless LAN, make sure you enable security and encryption on the wireless hub (for the same reason that you should run only secured proxies). Consult the documentation and technical support of the wireless equipment provider for help.



Installing and Connecting Your Cable Modem

Before you start, make sure that:

- You have contacted your cable company and verified that they provide data service using standard DOCSIS technology.
- You have all the [Items You Need](#).
- Cable and power outlets are available near the PC. If a cable outlet is not conveniently located, your cable company can install a new one.

Getting Service

Before trying to use your new Cable Modem, contact your local cable company to establish an Internet account. When you call, have the following information ready:

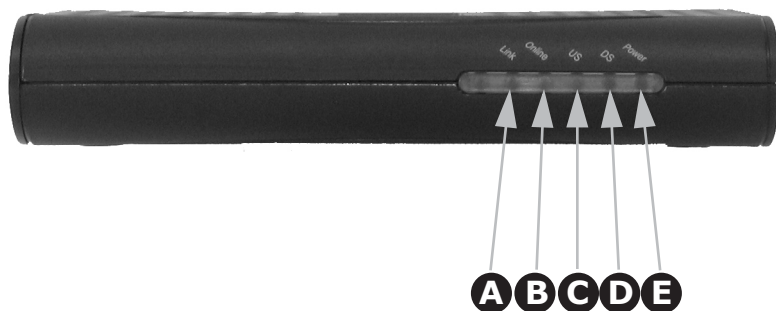
- the Cable Modem serial number and MAC address (printed on a sticker on the bottom of the Cable Modem)
- the model number of the Cable Modem

Save this information for future use. In addition, you should ask your cable company the following questions:

- Do you have any special system requirements or files that I need to download after I am connected?
- When can I start using my Cable Modem?
- Do I need a user ID or password to access the Internet or my e-mail?



Cable Modem Front Panel

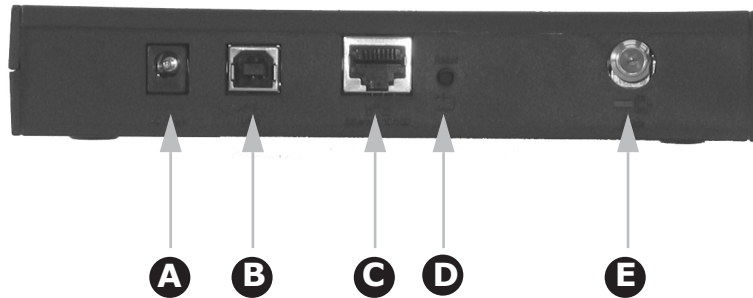


Front Panel

The front of the Cable Modem has the following indicators and controls:

- A Link:** flickers when sending or receiving data to the PC over the Ethernet or USB connection; on steadily otherwise.
- B Online:** blinks when the Cable Modem is disconnected from the Internet; on when the Cable Modem is connected to the Internet.
- C US:** blinks when sending data on the cable system; on steadily otherwise.
- D DS:** blinks when receiving data on the cable system; on steadily otherwise.
- E Power:** blinks when the Cable Modem is setting up; on steadily when ready for use.

Cable Modem Rear Panel



Rear Panel

The rear of the Cable Modem has the following connectors and controls:

- A** Power: plug the AC adapter in here.
- B** [USB connector](#): for connecting the Cable Modem directly to a PC.
- C** [Ethernet connector](#): for connecting the Cable Modem to a PC or home network LAN.
- D** **Reset** button: resets the Cable Modem as if you disconnected power. Use a pointed non-metallic object to press this button.
- E** Cable: plug the [coax cable](#) in here.

Mounting the Cable Modem

You can either mount the Cable Modem on a wall or place it on a desktop. For wall-mount applications, you can mount the Cable Modem with the indicators facing upward (vertical) or to the side (horizontal).

Tools and Materials

For wall-mounted installations, make sure you have the following tools and materials before proceeding:

- screwdriver (flat-blade or Phillips, depending on what kind of screws you use)
- wall-mount template (included with the Cable Modem Quick Installation Guide)
- transparent tape (for temporarily securing the mounting template to the wall)
- for mounting on plywood or studs: two #6 (or #8) x 38.1 mm (1.5 inches) self tapping screws; the head diameter should be approximately 6 mm (0.25 inches)
- for mounting on drywall: two 1.5 inch (35mm or 40mm) anchor bolts

Location

Always position the Cable Modem:

- within 1.3 m (4 feet) of an AC outlet. The power cord must reach the outlet without stretching and without adding extension cords.
- near a cable outlet (to avoid long cable runs).

Note: When mounting the Cable Modem on drywall, try to position the Cable Modem so at least one of the screws are fastened to a stud. This may prevent the Cable Modem from pulling out of the wall in the future.

To prevent overheating your Cable Modem, do not block the ventilation holes on the sides of the unit.



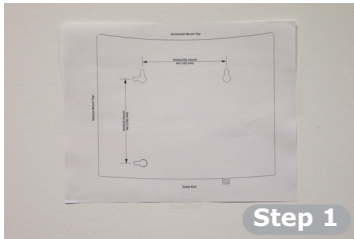
Instructions

Wall-mounting instructions

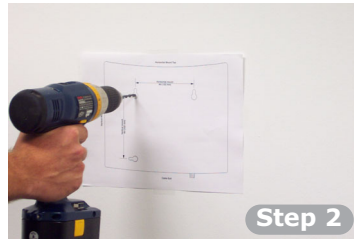
- 1 Position the mounting template on the surface where you intend to mount the Cable Modem and secure in place with transparent tape.
- 2 Drill holes through the template in the specified locations for the mounting screws. After drilling holes, remove the template from the surface.
- 3 Drive both of the screws (or anchor bolts) into the wall. Leave a gap of about 6 mm (0.250 inches) between the screw head and the wall.
- 4 Orient the Cable Modem with the indicator lights facing up or right, as desired. Slip both mounting slots (in the back of the Cable Modem) over the screws, then slide the case down until the narrow end of the keyhole slot contacts the screw shaft.
- 5 Proceed to [Connecting the Cable Modem](#).

Desktop mounting instructions

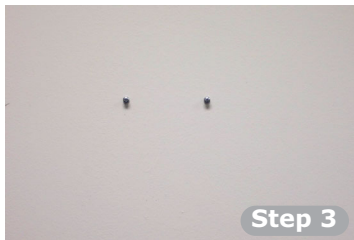
- 1 Position the Cable Modem so that:
 - air flows freely around it
 - the back faces the nearest wall
 - it will not fall to the floor if bumped or moved
- 2 If you want to stand the Cable Modem up on its side, pull the oval foot out slightly, twist the foot (as shown), and place the Cable Modem in the desired location.
- 3 Proceed to [Connecting the Cable Modem](#).



Step 1



Step 2



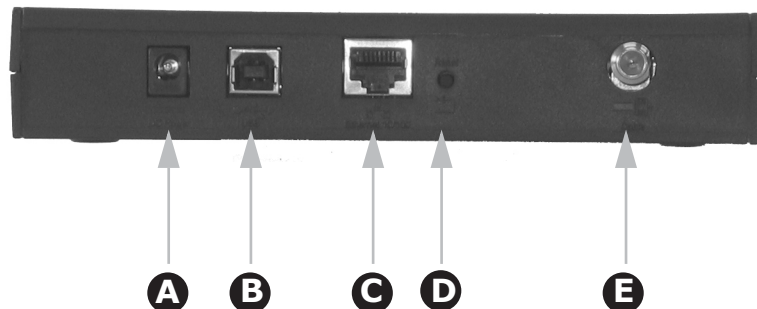
Step 3



Step 4



Rear Panel



- A** Power
- B** USB
- C** Ethernet
- D** **Reset** button
- E** Cable

Connecting the Cable Modem

- 1 Power up your computer and insert the CD-ROM included with your modem.
- 2 Connect one end of the coaxial cable to the cable outlet or splitter, and the other end to the Cable Modem's Cable connector. Tighten the connections by hand.

Note: Improperly tightened coaxial cable connectors can cause data errors, making your connection slower.

- 3 Insert the plug from the AC adapter into the Power connector on the Cable Modem.
- 4 Insert the power cord into a convenient AC outlet.
The Power light on the front of the Cable Modem should light up, then start flashing. See [Troubleshooting](#) if the Power light does not turn on.

- 5 After connecting the coax cable and power, proceed as needed:

- [Making Ethernet Connections](#)
- [Making USB Connections](#)

Note: Do not connect a single computer to both the Ethernet and USB ports.

Making Ethernet Connections

- 6 Connect one end of the Ethernet cable to the port on the back of the Cable Modem labeled "Ethernet 10/100," and the other end to the Ethernet port on a computer, hub, or broadband router.

Note: If you are connecting to a computer, use the Ethernet cable included in the Cable Modem package unless it is too short. Longer Ethernet cables are available from any computer retailer.

Making USB Connections

- 7 Connect one end of the USB cable to the USB port on the computer, and the other end to the USB port on the back of the Cable Modem.

Your PC should detect the Cable Modem and begin installing the drivers. See [Installing USB Drivers on Your PC](#) for driver installation details.



Installing USB Drivers on Your PC

When you plug the Cable Modem into the PC's USB port, Windows automatically detects the hardware and begins installing the USB drivers.

Requirements

Make sure you have the following before attempting to install the USB drivers:

- PC with:
 - CD-ROM drive
 - at least one free USB port
 - one of: Windows 98SE, Windows 2000, Windows ME, or Windows XP (Windows 95 and Windows NT are **not** supported)
 - ARRIS USB Driver CD

Note: Windows XP does not require the installation of USB drivers from the CD.

- USB of appropriate length (a cable is included in your Cable Modem package)

Installation Instructions

Select the link for your operating system to see the installation instructions.

- [Installing USB Drivers on Windows 98SE](#)
- [Installing USB Drivers on Windows 2000](#)
- [Installing USB Drivers on Windows XP](#)
- [Installing USB Drivers on Windows ME](#)



Installing USB Drivers on Windows 98SE

Follow these steps to install USB drivers on Windows 98 Second Edition.

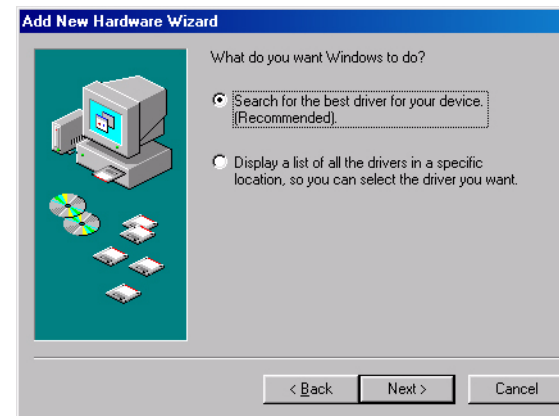
Note: Always perform these steps in the order shown to minimize possible problems. For example, if you plug in the USB cable before inserting the CD, Windows may install the wrong driver.

- 1 Make sure the Cable Modem is on (the **Power** light should be on). If not, connect the AC adapter as described in [Connecting the Cable Modem](#).
- 2 Insert the CD that came with the Cable Modem package into the CD-ROM drive.
- 3 Plug the appropriate end of the USB cable into the Cable Modem and the other end into the computer's USB port.

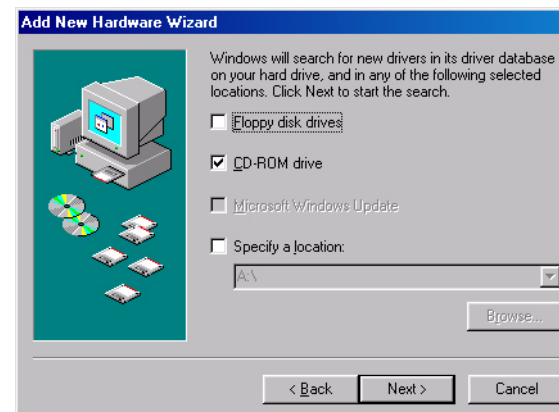
The following window appears, indicating that the PC has detected a new USB device:



- 4 Wait for the system to start the Add New Hardware Wizard and display the following window (there may be a short delay):

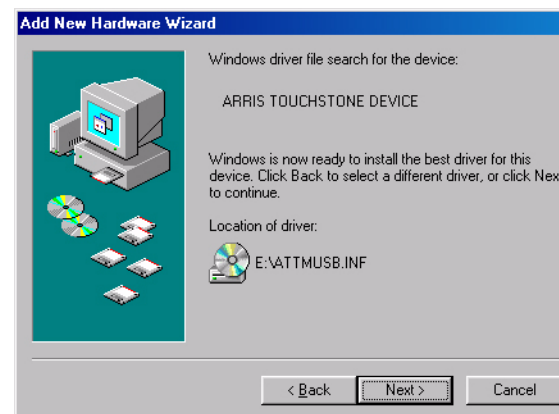


- 5 Select "Search for the best driver" and click the **Next** button.
The wizard displays a list of search options:



- 6 Make sure the **CD-ROM** option is selected (checked), then click the **Next** button.

The wizard searches the specified locations, then displays the location and name of the appropriate driver.



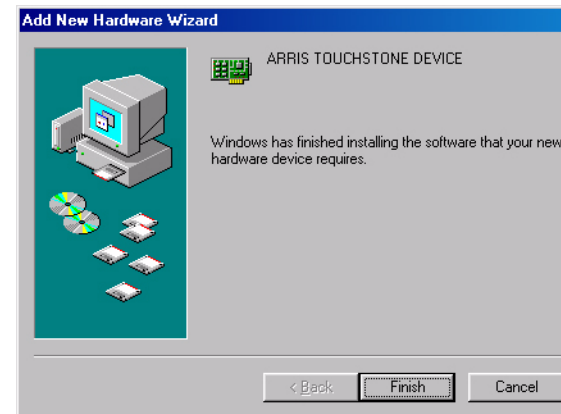
Note: If the wizard can not find the CD drive, and the CD is inserted properly, follow these steps:

- a. On the Windows desktop, open "My Computer" and note the letter of the Compact Disc (or CD-ROM) drive (on most systems, the CD drive is at D: or E:)
- b. Return to the Found New Hardware Wizard, and click the **Back** button.
The wizard displays the previous screen, shown in step 5.
- c. Select "Specify a Location," then choose the drive letter that corresponds to the CD drive from the menu.
- d. Click the Next button.

You should now see the screen shown above. If not, contact your cable company for help.

7 Click the **Next** button.

The wizard installs the drivers, then displays a window indicating that the installation is complete.

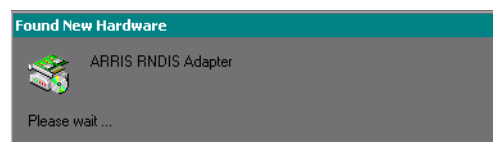


Installing USB Drivers on Windows 2000

Follow these steps to install USB drivers on Windows 2000.

- 1 Make sure the Cable Modem is on (the **Power** light should be on). If not, connect the AC adapter as described in [Connecting the Cable Modem](#).
- 2 Insert the CD that came with the Cable Modem package into the CD-ROM drive.
- 3 Plug the appropriate end of the USB cable into the Cable Modem and the other end into the computer's USB port.

The following window appears, indicating that the PC has detected a new USB device:

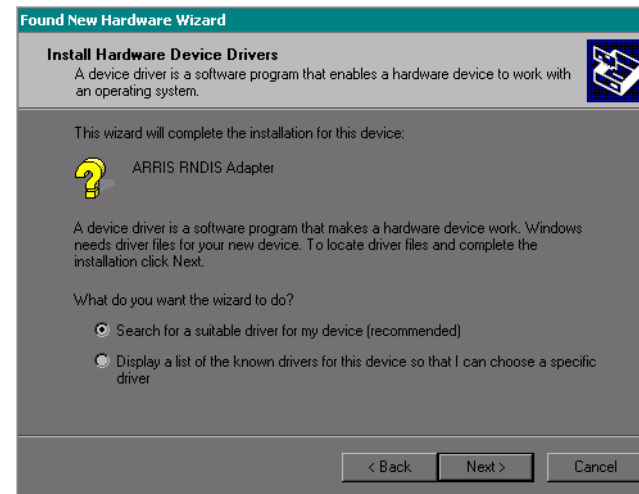


- 4 Wait for the system to start the installation wizard and display the following window (there may be a short delay):



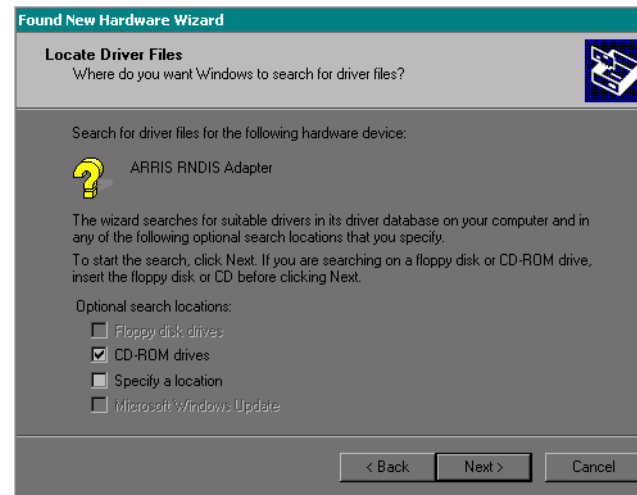
5 Click the **Next** button.

The wizard prompts you for the location of the drivers.



Note: The dialog indicates that the wizard is looking for the ARRIS RNDIS (Remote Network Device Interface Specification) driver for the Cable Modem.

- 6 Select "Search for a suitable driver...", then click the **Next** button.
The wizard displays a list of search options.



- 7 Make sure the **CD-ROM** option is selected (checked), then click the **Next** button.

The wizard searches the specified locations, then displays the location and name of the appropriate driver.



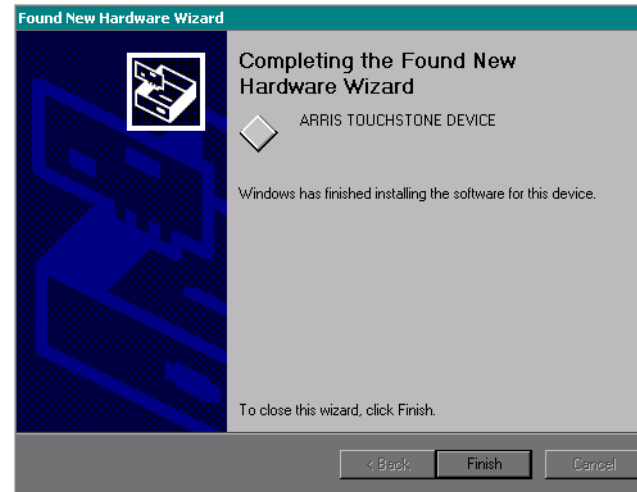
Note: If the wizard can not find the CD drive, and the CD is inserted properly, follow these steps:

- a. On the Windows desktop, open "My Computer" and note the letter of the Compact Disc (or CD-ROM) drive (on most systems, the CD drive is at D: or E:)
- b. Return to the Found New Hardware Wizard, and click the **Back** button.
The wizard displays the previous screen, shown in step 6.
- c. Select "Specify a Location," then choose the drive letter that corresponds to the CD drive from the menu.
- d. Click the Next button.

You should now see the screen shown above. If not, contact your cable company for help.

- 8 Click the **Next** button.

The wizard installs the drivers, then displays a window indicating that the installation is complete.



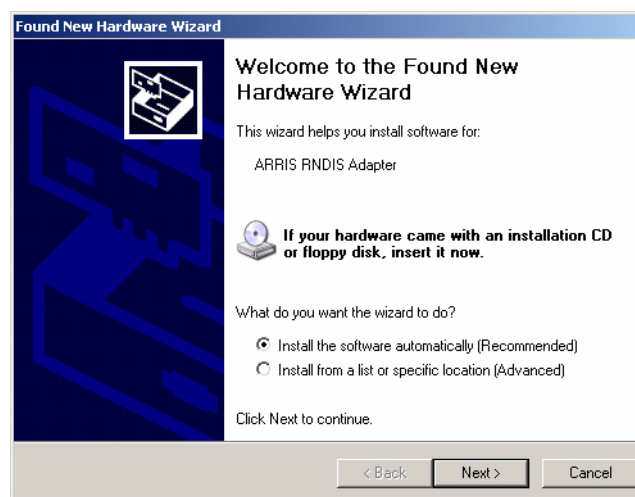
- 9 Click the **Finish** button.

Installing USB Drivers on Windows XP

Follow these steps to install USB drivers on Windows XP.

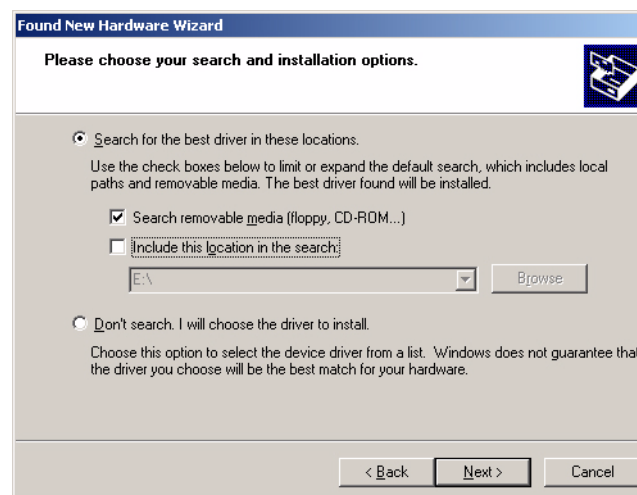
- 1 Make sure the Cable Modem is on (the **Power** light should be on). If not, connect the AC adapter as described in [Connecting the Cable Modem](#).
- 2 Insert the CD that came with the Cable Modem package into the CD-ROM drive.
- 3 Plug the appropriate end of the USB cable into the Cable Modem and the other end into the computer's USB port.

The following window appears, indicating that the PC has detected a new USB device:



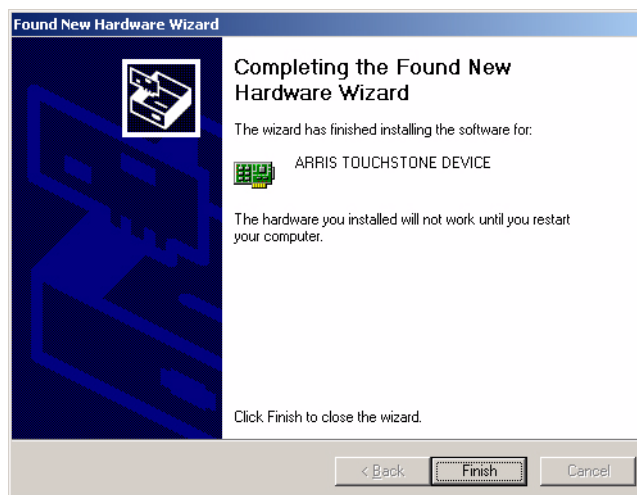
- 4 Click the **Next** button.

The wizard prompts you for the location of the drivers.



- 5 Select "Search for the best driver" and "Search removable media," then click the **Next** button.

The wizard installs the drivers, then displays a window indicating that the installation is complete.



- 6 Click the **Finish** button.



Installing USB Drivers on Windows ME

Follow these steps to install USB drivers on Windows Millennium Edition.

- 1 Make sure the Cable Modem is on (the **Power** light should be on). If not, connect the AC adapter as described in [Connecting the Cable Modem](#).
- 2 Insert the CD that came with the Cable Modem package into the CD-ROM drive.
- 3 Plug the appropriate end of the USB cable into the Cable Modem and the other end into the computer's USB port.

The following window appears, indicating that the PC is installing drivers for a new USB device:



- 4 When the window disappears, installation is complete. Contact your cable company if you see an error message of any kind.

Using the Cable Modem

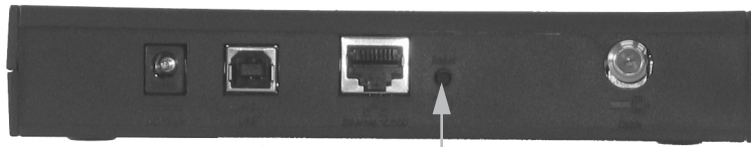
This chapter describes the controls and features available on the Touchstone Cable Modem, and covers basic troubleshooting procedures.

- [Setting up Your Computer to Use the Cable Modem](#)
- [Using the Reset Button](#)

Setting up Your Computer to Use the Cable Modem

Follow the instructions in the information packet supplied by your cable company. Contact your cable company if you need help setting up your computer.





Reset button

Using the Reset Button

Use the **Reset** button, on the back of the Cable Modem, to reset the modem as if you disconnected power. You may need to reset the Cable Modem if you are having problems connecting to the Internet.

Use a pointed non-metallic object to press this button. The photo to the left shows the location of the **Reset** button.

The **Reset** button is recessed to prevent accidental resets.

Troubleshooting

Problems and Solutions

The cable modem is plugged in, but the Power light is off.

Check all power connections. Is the AC adapter plugged in firmly at both ends?

If you plugged the AC adapter into a power strip, make sure the strip is switched on.

Avoid using an outlet controlled by a wall switch, if possible.

Finally, check the fuse or circuit breaker panel.

I'm not getting on the Internet.

It may take up to 30 minutes to establish a connection the first time you power up your Cable Modem, especially when a lot of people are online. Always leave your Cable Modem plugged in and connected.

Check the front panel lights:

- The **Power** and **Online** lights should be on.
- The **Link** light should be either on or blinking.
- The **DS** and **US** lights should be either on or blinking.
- If the **Power** light blinks for more than 30 minutes, call your cable company for assistance.

Check your cable connections. Connectors should be finger-tight. The [coax cable](#) should not be pinched, kinked, or bent sharply—any of these can cause a break or short in the cable (you may have to replace the cable). If you have one or more splitters between the Cable Modem and CATV outlet, remove the splitters and connect the Cable Modem directly to the outlet.

Proceed to the Ethernet or USB solutions (next page) if necessary.



I'm not getting on the Internet. (Ethernet)

If you are using a hub, is the hub turned on?

Are you using the right type of [Ethernet cable](#)? (Straight cable for direct connection to a PC, cross-over cable for connection to a hub.)

Press the **Reset** button on the back of the Cable Modem.

I'm not getting on the Internet. (USB)

Did you [load the USB drivers](#)?

If you are using a powered USB [hub](#), is the hub turned on?

Check the USB cable connections. Disconnect and reconnect the USB cable.

Restart the PC.

Press the **Reset** button on the back of the Cable Modem.

I'm not getting on the Internet. (USB, Windows 98)

In some cases, Windows may install a "composite" USB driver instead of the ARRIS cable modem driver. To correct this:

- Disconnect the USB cable between the PC and the Cable Modem.
- Use the ARRIS Uninstall utility (on the ARRIS driver CD) to remove the improperly-installed driver.
- Reboot the PC.
- Reinstall the drivers as described in [Installing USB Drivers on Windows 98SE](#).

I can get on the Internet, but everything is slow.

If the Web site you are visiting is very popular, that site may be having trouble servicing all the requests. If other sites download quickly, wait for a few minutes and try again. Usage during peak hours may also affect the connection speed.

If your Cable Modem is connected to a LAN (Local Area Network), either directly or through a firewall, other communications on the LAN may slow down your connection.

I have two PCs connected to the Cable Modem, but only one can get on the Internet.

Check your cable company's terms of service: they may allow only one computer to connect directly to the Cable Modem.



Troubleshooting USB Problems

Follow these steps if the PC does not auto-detect the Cable Modem using a USB connection.

Before you start, make sure that:

- You have properly installed and configured the Cable Modem as shown in [Installing and Connecting Your Cable Modem](#).
- You have installed the USB drivers as shown in [Installing USB Drivers on Your PC](#).
- The cable company has set up your account. Call your cable company if you're not sure.

Instructions

- 1** Be sure that your PC is running either Windows 98SE, Windows 2000, Windows ME, or Windows XP (Windows 95 and Windows NT are **not** supported).
- 2** Be sure the Cable Modem has power. The **Power** light should be on.
- 3** Push the **Reset** button on the back panel of the Cable Modem, using a pen tip or other sharp non-metallic object.
- 4** Disconnect the USB cable from the PC and reconnect it.
- 5** Restart the PC.
- 6** Do the following to uninstall and the reinstall your USB drivers:
 - a.** Disconnect the USB cable to the Cable Modem.
 - b.** Insert the Cable Modem CD-ROM into you computer.
 - c.** Start the uninstall utility on your CD-ROM. Follow the on-screen instructions carefully.
 - d.** Reconnect the USB cable.
 - e.** Re-install the USB driver as shown in [Installing USB Drivers on Your PC](#).
- 7** Replace the USB cable.
- 8** Call your cable company for help.



Glossary

The following is a list of common cable and networking terms.

Terms and Abbreviations

A/B Cable

A USB cable that has a narrow rectangular connector on one end (A) and a notched square connector (B) on the other end.

Category 5 (Cat5)

A high-quality type of cable, used for Fast Ethernet (100BaseT) connections. When purchasing Ethernet cables, always look for Category 5 cable.

Coaxial cable (coax)

A thin wire, used to connect your television and Cable Modem to the cable TV system. You can buy coax from any electronics retailer and many discount stores.

Cross-over

An Ethernet cable used to connect two hubs (or a hub and a cable modem) together. Also, some Ethernet hubs may have built-in cross-over on one or more ports (which eliminates the need for a cross-over cable).

DHCP

Dynamic Host Configuration Protocol. An IP protocol used to provide an IP address and location of services (such as DNS and TFTP) needed by a device connecting to the network. DHCP allows the cable company to configure your computer's networking software for you.

DNS

Domain Name Service (Server). An IP service that associates a domain name (such as www.example.com) with an IP address.

Downstream

In an HFC network, the direction from the head-end to the subscriber. Some older cable documentation may refer to this as the forward path.



DOCSIS

Data Over Cable System Interface Specification. The interoperability standards used for data communications equipment on an HFC network.

Ethernet

A standard method of connecting two or more computers into a Local Area Network (LAN).

EuroDOCSIS

The European version of DOCSIS.

Event

An informational message used for monitoring network status.

F-connector

The type of connector used on coaxial cable. There are two common types of F-connector, slip-on and screw-on. Use coax with screw-on connectors for connecting your Cable Modem.

Gateway

The device, usually a router, that connects devices on a given IP subnet to other IP subnets.

Headend

The “central office” in an HFC network. The headend houses both video and data equipment. In larger cable networks, a “master” headend often feeds several “remote” headends to provide distributed services.

HTTP

HyperText Transfer Protocol.

Hub

A box with several Ethernet or USB connectors. Ethernet hubs provide a common point of contact for all connected devices; USB hubs allow you to add peripherals without installing a USB card in your computer.

IP address

A number assigned to your computer by your cable company, used to identify your computer to other systems on the Internet.



ISDN

Integrated Services Digital Network. A digital telephony standard that provides communication speeds about twice as fast as standard dialup.

LAN

Local Area Network. A network that allows computers in a single location (such as a building) to communicate with one another.

MAC address

A number that uniquely identifies any device connected to a network. Your cable company uses your Cable Modem's MAC address to authorize access to the Internet. The MAC address is printed on a label on the bottom of your Cable Modem.

Protocol

A set of rules and formats that determines the communication behavior of network entities at a given layer.

Proxy

A device or program that stands in between a server (for example, a web site) and a client (your browser), providing a way to relieve some of the burden from the server. For example, your cable company may have a web proxy that keeps copies of popular web pages; the proxy can send you those pages instead of fetching them directly from the web site, resulting in faster page loading and less network congestion.

RF

Abbreviation for Radio Frequency. Some literature refers to coax as "RF cable" and the connectors as "RF connectors."

RJ-11

A standard 4-pin modular connector, commonly used in North America for connecting telephones.

RJ-45

A standard 6-pin modular connector, commonly used on Ethernet cable. An RJ-45 connector looks like a wide RJ-11 (telephone) connector.



RoHS

Restriction of Hazardous Substances. Refers to items governed by Directive 2002/95/EC of the European Parliament.

Splitter

A small box with three cable connectors: one input and two outputs. You may need a splitter if you have a TV already connected to the cable outlet that you want to use for your Cable Modem. You can buy a splitter from any electronics retailer and most discount stores.

Switched outlet

A power outlet that may be turned on and off using a wall switch. Usually intended for lamps. Avoid plugging your computer or Cable Modem into a switched outlet to avoid disruptions.

TCP/IP

Transmission Control Protocol/Internet Protocol. The protocols used to facilitate communications across one or more connected networks.

Upstream

The path from a subscriber device to the headend. Some older cable documentation may refer to this as the return path or reverse path.

WEEE

Waste Electrical and Electronic Equipment. Refers to items governed by Directive 2002/96/EC of the European Parliament and of the WEEE Council.

USB

(Universal Serial Bus) An interface used for connecting a variety of accessories, such as keyboards, mice, printers, and communications devices (such as cable modems) to a single PC.

WHQL

Windows Hardware Qualification Labs. A division of Microsoft that certifies hardware as being compatible with Windows operating systems.





Touchstone

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Release 5 Standard 1.0
January 2006