

#### Touchstone<sup>®</sup> TM502 Telephony Modem User's Guide

Get ready to experience the Internet's express lane! Whether you're checking out streaming media, downloading new software, checking your email, or talking with friends on the phone, the Touchstone TM502 Telephony Modem brings it all to you faster and more reliably. All while providing toll quality Voice over IP telephone service. Some models even provide a Lithium-Ion battery backup to provide continued telephone service during power outages.

The Touchstone Telephony Modem provides an Ethernet connection for use with either a single computer or home/office Local Area Network (LAN). Some Telephony Modems also provide a USB connection. You can connect two separate computers at the same time using both of these connections. In addition, the Touchstone Telephony Modem provides for up to two separate lines of telephone service.

Installation is simple and your cable company will provide assistance to you for any special requirements. The links below provide more detailed instructions.

#### Safety Requirements

**Getting Started** 

Battery Installation and Replacement (TM502G/H Models Only)

Installing and Connecting Your Telephony Modem

Installing USB Drivers on Your PC

**Configuring Your Ethernet Connection** 

Using the Telephony Modem

Troubleshooting

<u>Glossary</u>

#### **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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	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

#### Safety Requirements

ARRIS Telephony Modems comply with the applicable requirements for performance, construction, labeling, and information when used as outlined below:



#### CAUTION

Connecting the Telephony Modem to the home's existing telephone wiring should only be performed by a professional installer. Physical connections to the previous telephone provider must be removed and the wiring must be checked; there must not be any voltages. Cancellation of telephone service is not adequate. Failure to do so may result in loss of service and/or permanent damage to the Telephony Modem.

- The Telephony Modem is designed to be connected directly to a telephone.
- Connecting the Telephony Modem to the home's existing telephone wiring should only be performed by a professional installer.
- Do not use product near water (i.e. wet basement, bathtub, sink or near a swimming pool, etc.), to avoid risk of electrocution.
- Avoid using and/or connecting the equipment during an electrical storm, to avoid risk of electrocution.
- Do not locate the equipment within 6 feet (1.9 m) of a flame or ignition source, to avoid damage or injury from battery explosion (i.e. heat registers, space heaters, fireplaces, etc.).
- Use only power supply and power cord included with the equipment.
- Equipment should be installed near the power outlet and should be easily accessible. The coax drop cable's shield must be grounded at the building/residence either close to the point of entrance or at the point of attachment. It should be grounded as close as practical to the building/residence AC ground to minimize grounding connector length and thereby limit the po-

tential voltage differences between the cable TV coax cable and other grounding systems. Refer to the individual country's National Electric Code for further details.

- In areas of high surge events or poor grounding situations and areas prone to lightning strikes, additional surge protection may be required (i.e. PF11VNT3 from American Power Conversion) on the AC, RF, Ethernet and Phone lines.
- When the Telephony Modem is connected to a local computer through USB or Ethernet cables, the computer must be properly grounded to the building/residence AC ground network. All plug-in cards within the computer must be properly installed and grounded to the computer frame per the manufacturer's specifications.

	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

#### **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 this symbol, 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 Telephony 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.



# End User License Agreement and Limited Warranty

This Standard License Agreement and Limited Warranty ("Agreement") applies to all ARRIS manufactured or otherwise ARRIS provided products ("Products") and the corresponding current and subsequently provided versions of software or firmware, if any, whether embedded in the Products or used in conjunction with the Products, ("Software"). The Product, without the Software, is referred to in this Agreement as the ("Hardware"). The Software and Hardware are AR-RIS Products and may be referred to in this Agreement as the ("System").

If you ("You" or "Purchaser") and ARRIS International, Inc. ("ARRIS") have entered into a separate written agreement, then, inconsistent terms between this Agreement and the separate agreement shall be governed by such separate agreement.

If You do not agree to be bound by this Agreement, please return the Products to the Party from whom You acquired the Products. Use of the Products shall constitute acceptance of the terms hereof.

#### **1. LICENSE TERMS**

Subject to the terms herein, ARRIS grants You a royalty-free, non-exclusive, non-transferable, non-sublicensable license to use the Software with the Products, in binary object code form only. You may use third party software products or modules supplied by ARRIS solely with the System, unless the licensing terms of the third party software specify otherwise. You may not disclose the results of Software performance benchmarks to any third party without ARRIS' prior written consent. All rights not specifically granted to You herein are retained by ARRIS.

#### 2. RESTRICTIONS

You and/or any third party agree not to (i) make any copies of the Software, (ii) modify, decompile, disassemble, separate, reverse engineer or otherwise attempt to derive any source code from the Software; (iii) transfer the Software to any third party without ARRIS' written con-



	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

sent; (iv) export the Software or any of its underlying technology in contravention of U.S. and foreign export laws and regulations, or (v) if Products are included, use the Software other than in connection with the System.

#### 3. USE

The right to use the Software, or any individual feature thereof, may be restricted by a measure of usage. An expansion beyond a commercially reasonable usage level may require payment of an additional fee to ARRIS.

#### 4. SOFTWARE DEVELOPED AT PRIVATE EXPENSE

The Software provided under this Agreement is commercial computer software developed exclusively at private expense, and in all respects are proprietary data belonging solely to ARRIS and/or it licensors.

#### **5. LIMITATIONS ON LIABILITY**

NEITHER ARRIS NOR ITS LICENSORS SHALL BE LIABLE FOR INDI-RECT, INCIDENTAL, PUNITIVE, CONSEQUENTIAL, EXEMPLARY, OR SPECIAL DAMAGES UNDER ANY THEORY OF LIABILITY, WHETHER AL-LEGED AS A BREACH OF CONTRACT, TORT (INCLUDING NEGLI-GENCE), STRICT LIABILITY OR OTHERWISE AND REGARDLESS OF WHETHER YOU, ANY OTHER SOFTWARE USER, OR ANY THIRD PARTY SUFFERED SUCH DAMAGES, EVEN IF ARRIS AND/OR ITS LICENSORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT WILL ARRIS' TOTAL LIABILITY TO YOU OR ANY THIRD PARTY ARISING OUT OF OR PURSUANT TO THIS AGREEMENT EXCEED THE AMOUNT PAID BY PURCHASER TO ARRIS FOR THE SOFTWARE AND/ OR SYSTEM.

#### 6. TERM & TERMINATION

This Agreement takes effect upon Your acceptance of the terms hereof or Your first use of the Software and will remain in force until terminated in accordance hereunder. ARRIS may terminate this Agreement upon fifteen (15) days prior written notice upon Your material breach of this Agreement if such breach is not cured within such fifteen (15) day period. Notwithstanding the foregoing, this Agreement shall terminate immediately upon Your breach of any of the provisions of Section 2 above.

#### 7. OWNERSHIP

Title, ownership rights, and all intellectual property rights in and to the Software and/or System and any accompanying materials or documentation, and any copy of the foregoing, shall remain the sole and exclusive property of ARRIS and/or its licensors. You agree to abide by copyright laws and all other applicable laws, and acknowledge that the Software contains valuable confidential information and trade secrets of ARRIS and/or its licensors.

#### 8. YOUR INDEMNIFICATION TO ARRIS

You agree to defend, indemnify and hold ARRIS harmless from and against any costs, losses, liabilities and expenses (including attorney's fees) arising out of or relating to third party claims arising out of or related to Your use of the Software and/or System in contravention to the terms of this Agreement, including without limitation, any and all claims, actions, suits, or proceedings alleging fraud, breach of security, non-compliance with laws, breach of contract or negligence.

#### 9. PATENT INDEMNIFICATION

9.1 ARRIS will indemnify, defend and hold You harmless against damages, liabilities and costs, excluding consequential and exemplary damages finally awarded against You and will, at ARRIS' expense, defend any claim, suit or proceeding ("Claim") brought against You insofar as such Claim is based on an allegation that the Products as provided to You directly infringe a United States patent or copyright. ARRIS will pay those costs and damages, including settlement costs awarded or agreed-upon, as applicable, as the result of the Claim, provided (i) You promptly notify ARRIS of the Claim (ii) You give ARRIS all applicable evidence in Your possession, custody or control, (iii) You give ARRIS reasonable assistance in and sole control of the defense and all negotiations for its settlement or compromise, and (iv) You have paid all fees due to ARRIS under this Agreement and continue to pay all such fees as such become due.



	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

9.2 In the event of an infringement allegation for which ARRIS is obligated to indemnify You, ARRIS may at its discretion: (i) obtain a license that allows You to continue to use the accused Products, (ii) replace or modify the accused Products with changes that reasonably meet the ARRIS specification, so as to be non-infringing, or (iii) if (i) and (ii) are not commercially reasonable, repurchase ARRIS' provided Products at its depreciated value based on a three-year amortization rate. If ARRIS provides any one of the options set forth in clauses (i) through (iii) above, ARRIS' indemnity obligation under this Agreement shall be entirely fulfilled. ARRIS liability for patent infringement indemnification in this section shall not exceed the amount You paid for the Products finally found to infringe a valid US patent.

#### **10. LIMITED WARRANTY**

IF YOU ACQUIRED THE PRODUCTS FROM ANYONE OTHER THAN ARRIS YOU DO NOT RECEIVE ANY OF THE WARRANTIES DIRECTLY FROM AR-RIS. YOUR EXCLUSIVE WARRANTY, IF ANY, COMES FROM THE PARTY FROM WHOM YOU ACQUIRED THE PRODUCTS: IN WHICH CASE THE REMAINDER OF THIS DOCUMENT, EXCEPT FOR THE ARRIS TOUCH-STONE PRODUCTS SAFETY INFORMATION, DOES NOT APPLY TO YOU.

#### **11. SOFTWARE WARRANTY**

ARRIS warrants to the original purchaser that for ninety (90) days from the ship date of the original ARRIS branded Software (the "Software Warranty Period"), the Software will perform in substantial conformance with the technical specifications for such Software set forth in the Documentation. Your sole and exclusive remedy, and ARRIS" sole and exclusive liability under this Section 11 (Software Warranty) shall be, at ARRIS" option: (i) to use commercially reasonable efforts to correct any reproducible errors that You identify in writing during the Software Warranty Period which renders the Software non-conforming, (ii) to replace the Software with functionally equivalent software or (iii) to accept Your return of the Software, if applicable. ARRIS does not warrant that the Software will work in combination with any hardware or application software products provided by third parties not supplied or approved by ARRIS, that the operation of the Software will be uninterrupted or error free, or that all defects in the Software can be corrected. ARRIS shall not have any obligation or liability with respect to this Section 11 for any errors or any defects in the Software upon expiration of the Software Warranty Period.

#### **12. HARDWARE WARRANTY**

12.1 ARRIS warrants to the original Purchaser of the hardware that under normal use and service, for twelve (12) months from the ship date (the "Hardware Warranty Period") of the Hardware, it will be free from defects in material and workmanship. Your sole and exclusive remedy and ARRIS' sole and exclusive liability under this Section 12 shall be, at ARRIS' option: (i) to use commercially reasonable efforts to correct any reproducible Hardware errors that You identify in writing during the Hardware Warranty Period which renders the Hardware non-conforming, (ii) to replace the Hardware or (iii) accept return of the Hardware from Purchaser. ARRIS shall not be responsible for any of Your or third party software, firmware, information or memory data contained in, stored on, or integrated with any Hardware Products returned to ARRIS pursuant to any Warranty provided under this Agreement.

12.2 ARRIS does not warrant (1) physical damage to the surface of the products, including cracks or scratches on the casing; (2) damage caused by misuse, neglect, improper installation or testing, unauthorized attempts to open, repair or modify the products, or any other cause beyond the range of the intended use; (3) damage caused by accident, fire, power changes, other hazards, or acts of God.

12.3 Battery Pack. If Your product has a battery pack, ARRIS warrants that the battery pack will be free from defects in workmanship and materials, under normal use, for twelve (12) months from its ship date. This warranty is void if the ARRIS battery pack is used in any other vendors equipment.

#### **13. WARRANTY CLAIMS**

To make a return under the Warranty above, You must contact the AR-RIS Repair Services center within the applicable warranty period, in writing, by sending an email to support@arrisi.com to obtain an ARRIS Return Material Authorization number (RMA). The authorized RMA number You receive from ARRIS must be marked on the outside pack-



	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

age and sent prepaid and packaged appropriately for safe shipment. ARRIS will use commercially reasonable efforts to ship any repaired or replaced Product to You, at ARRIS' expense, not later than thirty (30) days after ARRIS receives the defective Product. ARRIS warrants the repaired or replaced Hardware or Software for the longer of the remainder of the unexpired applicable Warranty Period or 90 days. Notwithstanding the above, if any return is due to errors or defects for which ARRIS is not responsible or not otherwise covered by the Warranty, You shall be liable for and reimburse ARRIS for shipping and related expenses.

#### **14. DISCLAIMER OF WARRANTY**

EXCEPT AS AGREED TO IN A SEPARATE WRITING BETWEEN THE PAR-TIES, THESE WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES WITH RESPECT TO THE SOFTWARE AND/OR SYSTEM DELIVERED TO YOU HEREUNDER, WHETHER STATUTORY, BY OPERATION OF LAW, EX-PRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PUR-POSE, NON-INFRINGEMENT, TITLE AND ANY WARRANTIES ARISING OUT OF USAGE OR TRADE. THIS WARRANTY IS APPLICABLE SOLELY TO YOU AND NOT TO ANY SUCCESSOR IN INTEREST OR ANY OTHER THIRD PARTY. NO WAIVER, ALTERATION, OR MODIFICATION OF THIS WARRANTY SHALL BE BINDING AGAINST ARRIS UNLESS IN WRITING AS A SEPARATE AMENDMENT HERETO AND SIGNED BY AN ARRIS AU-THORIZED EXECUTIVE.

#### **15. WARRANTY LIMITATIONS**

ARRIS shall be relieved of all obligations and liability under the Warranty provisions set forth herein, if:

a. The Hardware or Software is operated with, or the error or defect is due to, any accessory, equipment, software or part not approved or sold by ARRIS; or

b. The Hardware or Software was not installed, operated and maintained in accordance with ARRIS' instructions and Documentation; or c. The Hardware or Software has been repaired, altered or modified by someone other than ARRIS; or

d. You do not notify ARRIS in writing of the error or defect within the applicable Warranty Period with sufficient information for ARRIS to identify and reproduce such error or defect, or fail to return the defective Hardware or Software according to the terms of this Agreement; or

e. ARRIS demonstrates that the alleged error or defect in the Software or Hardware does not exist or was caused by Your or any third party's misuse, neglect, improper installation or testing, or negligent repair or any other cause beyond the range of the intended use, or by accident, fire, lightening or other hazard or act of God.

#### **16. MISCELLANEOUS**

16.1 If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the remaining terms, conditions and provisions will continue to be valid and enforceable to the fullest extent permitted by law.

16.2 You may not assign or transfer this Agreement nor any rights hereunder, in whole or in part, whether voluntary or by operation of law without ARRIS' prior written consent. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns.

16.3 This Agreement (including any addenda hereto signed by both parties) represents the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter.

16.4 This Agreement may not be amended, except in writing, signed by both parties. No terms, provisions or conditions of any purchase order, acknowledgment or other business form that You may use in connection with the acquisition or licensing of the Software will have any effect on the rights, duties or obligations of the parties under, or oth-

Home Prev Next

	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

erwise modify, this Agreement, regardless of any failure of ARRIS to object to such terms, provisions or conditions.

16.5 The laws of the State of Georgia, USA shall govern and construe this Agreement. Any suit brought in connection with this Agreement shall be subject to the exclusive jurisdiction of the State Court of Georgia or the Federal Courts for the Northern District of Georgia and You hereby agree and submit to the personal jurisdiction and venue thereof.

#### **17. SAFETY INFORMATION FOR ARRIS TOUCHSTONE PROD-UCTS**

ARRIS telephony modems and cable modems comply with the applicable requirements for performance, construction, labeling, and information when used as outlined in this Section 17:

17.1 Caution: Only a professional installer may connect the telephony modem to the home's existing telephone wiring. Physical connections to the previous telephone provider must be removed and the wiring must be checked; there must not be any voltages. Cancellation of telephone service is not sufficient to ensure there is no power to the telephony modem. Failure to do so may result in loss of service and/or permanent damage to the telephony modem.

17.2 Do not use the product near water (e.g., wet basement, bathtub, sink or near a swimming pool), to avoid risk of electrocution.

17.3 Avoid using and/or connecting the equipment during an electrical storm, to avoid risk of electrocution.

17.4 Do not locate the product within 6 feet (2 m) of a flame or ignition source, to avoid damage or injury from battery explosion, or heat damage.

17.5 Use only the power supply and/or power cord included with the Product. Install the Product near and easily accessible to the power outlet. Ground the RF drop cable's shield at the building/residence either close to the point of entrance or at the point of attachment. Grounding as close as practical to the building/residence AC ground is

required to minimize grounding connector length and thereby limit the potential voltage differences between the cable TV coaxial cable and other grounding system. Refer to the individual country's National Electric Code for further details.

17.6 In areas of high AC power surge events or poor AC power grounding situations and areas prone to lightning strikes additional AC power surge protection may be required on the AC, RF, Ethernet, USB and phone lines.

17.7 If connecting the telephony modem or cable modem to a local computer through the Ethernet or USB cable the computer must be properly grounded to the building/residence AC ground network. All plug-in cards within the computer must be properly installed and grounded to the computer frame per the manufacturer's specifications.



	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

#### **Getting Started**

#### **About Your New Telephony Modem**

The Touchstone TM502 Telephony Modem is DOCSIS or EuroDOCSIS compliant with the following features:

- Speed: much faster than dialup or ISDN service
- Convenience: supports USB (all but TM502C) and Ethernet; both can be used simultaneously
- Flexibility: provides two independent lines of telephone service as well as high speed data
- 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.

- Telephony Modem
- Power Cord
- Quick Installation Guide
- USB Cable (all but TM502C)
- Ethernet Cable
- CD-ROM
- Screws for Wall Mounting the Unit
- End User License Agreement

#### What's on the CD?

The CD provides the following items:

- Quick Install Guide
- User's Guide
- USB Drivers (Windows 98SE/ME/2000/XP)
- Remove USB Driver Utility



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
others)	Guirteu		<b>Ite</b> If yo	e <b>ms You N</b> e ou are installir	eed	dem yourse	lf, make sure you hav	
			Ð	<ul> <li>the package</li> <li>Coaxial can be available</li> <li>with a cord to your tell er and ma there are nectors are nectors are</li> </ul>	ge. <b>able (coax)</b> : as sho nector on each end evision for cable TV. any discount stores; two types of connec re best for use with	own in the in . It is the sa You can buy make sure tors, slip-on your Teleph	is in the Box? for a list age to the left, this is ame kind of wire use coax from any elect it has connectors of and screw-on; the so ony Modem. The coar Modem to the neare	s a thin cable d to connect ronics retail- n both ends. crew-on con- ax should be
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				<ul> <li>Splitter (a outlet into to the cab electronics piece of ca cable outle</li> <li>Note: A s two output</li> </ul>	optional): provides two. You may need ble outlet that you v s retailer and most bax cable (with com et and then connect plitter effectively cu	an extra cal a splitter if vant to use. discount sto nectors); us the Telepho ts the signal litters in a li	ble connection by spli you have a TV alread You can buy a split ores; you may also r e it to connect the s ny Modem and TV to in half and sends ea ne may deteriorate t	tting a single dy connected ter from any need a short plitter to the the splitter. ch half to its
				<ul> <li>Informat containing</li> </ul>	ion packet: your ca information about	ible compan your service	y should furnish you v and how to set it u le company if you ha	p. Read this
	Phon	e Cable						
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Home Prev Next

Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
			B		use your new Telepho ternet account and t		contact your local ca rvice. When you call,	
					nony Modem serial ne er on the bottom of		1AC addresses of the ny Modem)	unit (printed
				the mode	l number of the Tele	phony Mode	m	
				ave this information any the followin		In addition,	you should ask you	ır cable com-
				•	ave any special syste I am connected?	em requirem	ents or files that I n	eed to down-
				When can	I start using my Tel	ephony Mod	lem?	
				Do I need	a user ID or passwo	ord to acces	s the Internet or my	e-mail?
				<ul> <li>Will my pl</li> </ul>	hone number(s) cha	nge?		
				What new	calling features will	I have and	how do I use them?	



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
			۲ د	describes require	Felephony Modem o	ating system	n most computers. T n; see the documenta etworking.	
				To use the Teleph your cable compa		ed DOCSIS	high-speed Internet	service from
			E		on: Windows 95, W dows 2000, or Wind		Windows 98 SE (Seco	ond Edition),
				Windows XP <b>MacOS</b>		,	), Windows ME, Windo	
				ed) or MacOS X L <b>inux/other Un</b> Ethernet connecti	ix		9.2 (Open Transport /IP, and DHCP must b	
,		<b>RIS</b>		or may not have a	itten to cover all of all of the capabilities	s outlined in	t TM502 models. You this manual. To dete the left. The model r	ermine which
			∞ t		the Telephony Mo			
L								
	Model I	Number						
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Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
			The				other equipment) to ich is best for you:	the Telepho-
			Eth Are Eth	a Network (L/ ernet hardwar	AN). Use the Ether	net connecti dows, or you	o or more computers on if your computer want to share the Te	r has built-in
			Not				the Ethernet port, yo computer retailers).	ou will need a
	Ethe	ernet Cable	con nec rect swi Tele	nectors look li cessary at a co tly to a compu tch, ask for Ca ephony Moden	ke wide telephone mputer retailer. If ter, or to an Ethern tegory 5 (CAT5) str	connectors); you are con et hub or br aight-throug ub or broad	-foot (1.9m) Ethern you can purchase n necting the Telephon oadband router with h cable. If you are co band router without	nore cables if y Modem di- a cross-over onnecting the
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		The second	ny con	ou have two o Modem's USB nect two or m	port and one or m	ore other co e Ethernet p	ect one computer to mputers to the Ethe ort, you will need a h	rnet port. To
		USB Cable		more informa vice provider.	tion about connecti	ng two or mo	ore computers, conta	ct your cable
	← ⇒							

Home Prev Next

Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
			Havi amo reas	unt of respoi onably secur	peed, always-on consibility to other Int	ernet users- system is 1	the Internet requir -including the need t 00% secure, you car	o maintain a
			•	the syster Keep your tion, avoi	n update utility at le email program upd	east weekly. lated with th ontaining att	the latest security patce e latest security patce achments, or opening	hes. In addi-
			•	<ul> <li>Install a v</li> <li>Avoid pro</li> <li>Besides control</li> <li>ning server</li> </ul>	irus checker and ke viding web or file-s ertain vulnerability p	ep it update haring servi problems, m el accounts a	d. ces over your Teleph ost cable companies and may suspend you	prohibit run-
			•	Use the ca Avoid usin abuse by nals can ta into other	able company's mail ng <u>proxy</u> software u other Internet user ake advantage of op computers or sendi	l servers for unless you a s (some are en proxies to ing spam. If	sending email. re certain that it is shipped open by def hide their identity w you have an open pro o protect the rest of	fault). Crimi- hen breaking oxy, your ca-
			•	If you con able secur you shoul	nect your Telephony rity and encryption of	Modem to a on the wirele proxies). Cor	wireless LAN, make ss hub (for the same sult the documentati	sure you en- reasons that

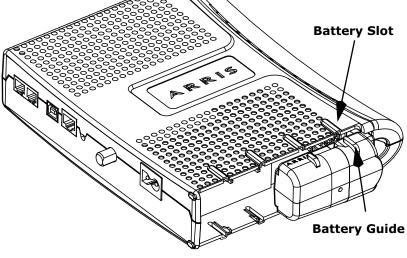


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Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
2.2	2 Ah Battery				Installatio G/H Mode		Replacem /)	ent
	PN: ARCT00777 01						ptionally include one attery or a 4.4 Ah ba	
	8.4V 2.2Ah SN: 28053000045 Assembled in Taiwan E187242	mar		safety and re		batteries are	e shipped outside of	the Telephony
				ntify the batte cedure:	ery type using the pl	notos to the	left and use the prop	er installation
				• <u>TM502G/</u> ł	H 2.2 Ah Battery Ins	stallation and	d Replacement	
4.4	4 Ah Battery			• <u>TM502G/</u> ł	H 4.4 Ah Battery Ins	stallation and	d Replacement	
	PK: ARCT00777 0 8-V2.2Ah SN: 2005300045 Assembled in Talwan E167242			Note: The	4.4 Ah battery is lo	onger and ha	as a strap between tl	ne guides.



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
				This model of the event of a local p AC power. The 2 Modem. Use this <b>Action</b> 1 Insert a fi holding th	Telephony Modem h ower loss. The batte .2Ah lithium-ion bat procedure to install nger into the latch o	has the abilit ery backup is tery pack ca and to repla pening, pres the bottom o	y to provide battery be not intended to take an be inserted into the ace the backup batter is down and pull back of the Telephony Mode safe place.	backup in the the place of the Telephony ries.
00000000000000000000000000000000000000		Batt	ery Slot	on the Tel the left sh	ephony Modem and lows the proper orie	slide the bat ntation.	on the battery align v tery into the bay. The into the Telephony N	e diagram on

**Note:** Batteries will not insert completely into the Telephony Modem if not oriented correctly. The battery should slide into the bay without significant force. Line up the slots in the battery bay with the guides on the battery.

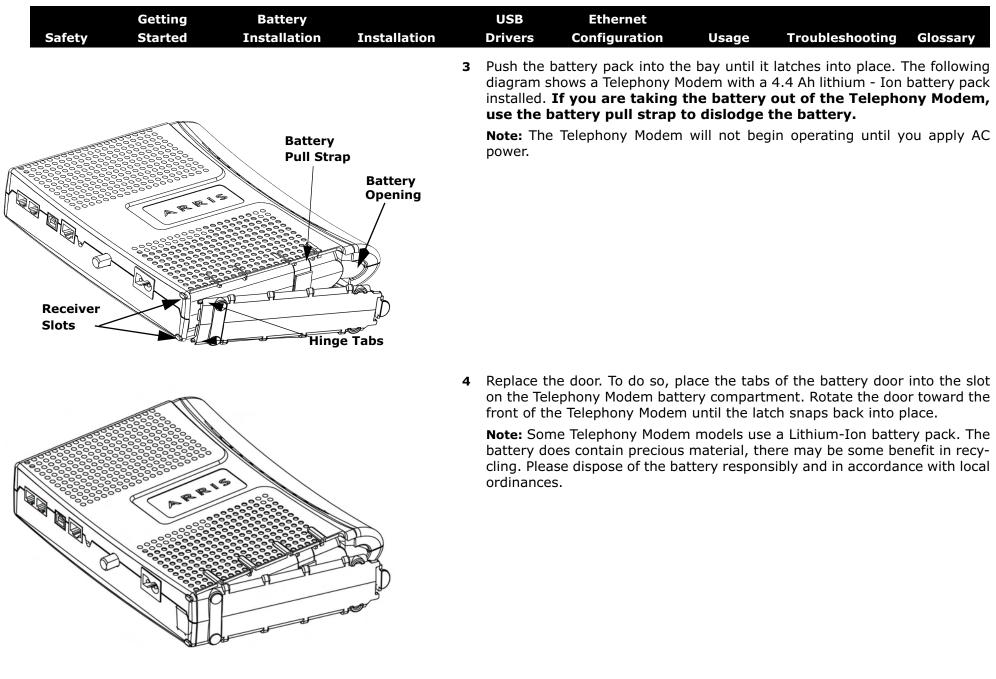




Safety	Getting Started	Battery Installation	Installation		USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
				3	agram sho you are ta battery o	ows a Telephony Mo aking the battery	odem with a out of the u	seats into place. The 2.2Ah battery pack nit, position your fi to dislodge the ba	installed. If inger in the
Receiver Slots			Battery Opening Market State nge Tabs		Note: The power.	Telephony Modem	will not beg	in operating until y	ou apply AC
				4	receiver sl posite end	ots inside the Telep	hony Modem ning slot. Rota	e tabs of the battery of battery compartmen ate the door toward f	nt on the op-
					Note: Som battery do	ne Telephony Moden es contain precious se dispose of the ba	n models use material, the	e a Lithium-Ion batte ere may be some be sibly and in accordan	nefit in recy-



Safety	Getting Started	Battery Installation	Installation	USE Drive			Usage	Troubleshooting	Glossary
Carloty	Started			<b>TM502G/</b> The 4.4 Ah li	H 4.4 Ah Ba	attery Ins ery pack can l	tallation a	and Replacer	ment
				Action					
			Latch End	1 Inser holdi		door (on the	bottom of th	own and pull bac ne Telephony Mod place.	
		Pu /	ittery III Strap attery Slot /	on th the le <b>Note</b> orien force	e Telephony Mo eft shows the p Batteries will ted correctly. T	odem and slid roper orienta not insert co The battery sh ots in the batt	le the battery tion. mpletely into nould slide ir tery bay with	he battery align y into the bay. Th o the Telephony nto the bay witho the guides on th ery.	e diagram on Modem if not out significant
1 as Il			)	WI	RONG	WR	RONG	RIG	нт
Receiver Slots Hinge	Tabs		Alan D		-				





	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

#### Installing and Connecting Your Telephony Modem

Before you start, make sure that:

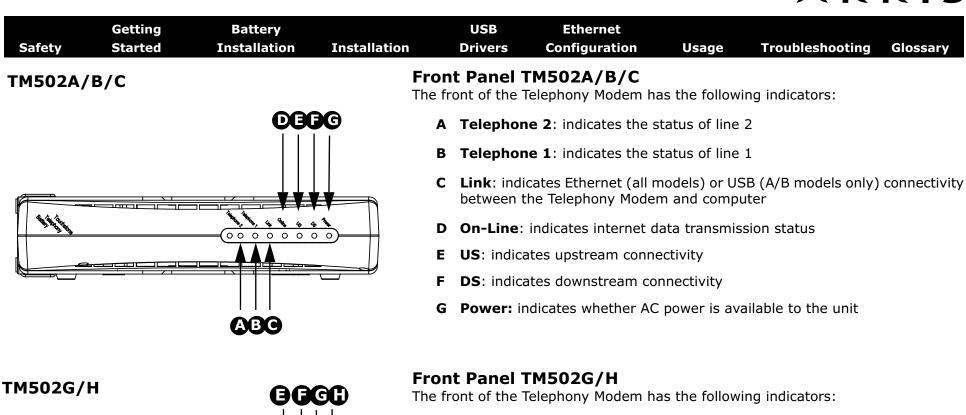
- You have contacted your cable company and verified that they provide data and telephone service using standard DOCSIS technology.
- You have all the **Items You Need**.
- Cable, phone, and power outlets are available near the computer. If a cable outlet is not conveniently located, your cable company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

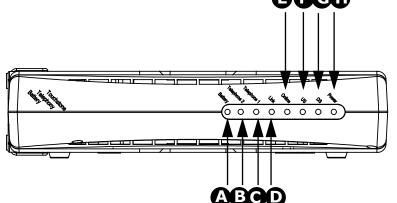


#### **Risk of equipment damage**

Only qualified installation technicians should connect the Telephony Modem to house wiring. Incumbent telephone service must be *physically* disconnected at the outside interface box before making any connections.

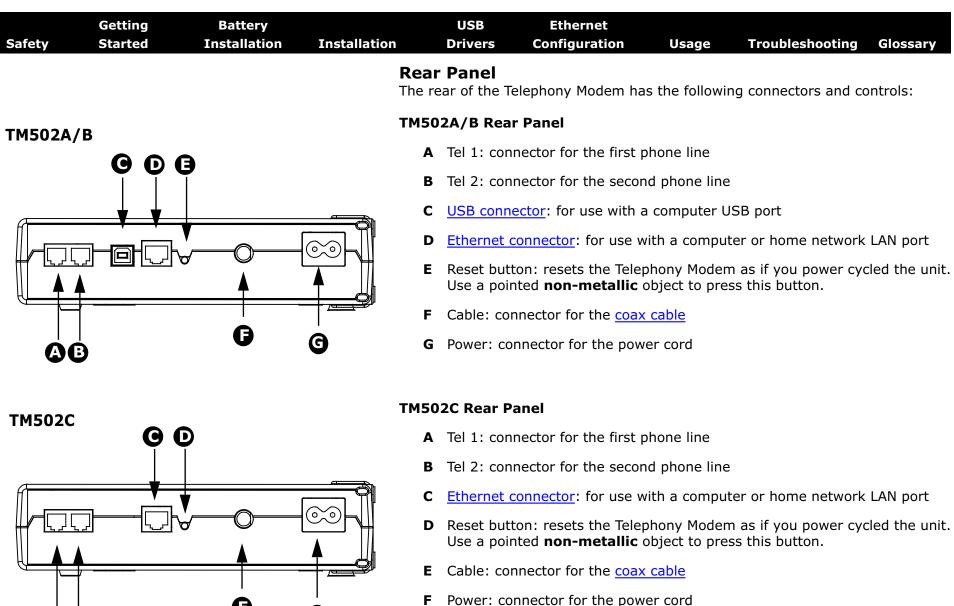






- A Battery: indicates status of the battery in the Telephony Modem
- B Telephone 2: indicates status of line 2
- **C** Telephone 1: indicates status of line 1
- **D** Link: indicates Ethernet or USB connectivity between the Telephony Modem and computer
- E On-Line: indicates internet data transmission status
- F US: indicates upstream connectivity
- G DS: indicates downstream connectivity
- H Power: indicates whether AC power is available to the unit





AВ

Prev Next

Home

Touchstone TM502 Telephony Modem User's Guide

Safety	Getting Started	Battery Installation	Installation		USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
ТМ502	2G/H		т	M502	2G/H Rea	r Panel			
	<b>GDB</b>				Tel 1/2 (T 2-line pho		ctor for the f	irst phone line (or bo	oth lines of a
					Tel 1 (TMS	502H only): connect	or for the fir	st phone line	
				В	Tel 2: con	nector for the secon	d phone line		
		<b></b>		С	USB conn	ector: for use with a	computer U	SB connection	
		$\overset{\checkmark}{\models} \overset{\checkmark}{\models}$			Ethernet of tion	connector: for use w	ith a comput	er or home network	LAN connec-
	)	C G				ton: resets the Telep nted <b>non-metallic</b> o		n as if you power cyc ss this button.	cled the unit.

- **F** Cable: connector for the <u>coax cable</u>
- **G** Power: connector for the power cord



	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary
			You wall	can either m -mount appli		Modem on a ount the Tele	wall or place it on a phony Modem with t ).	
			For	Is and Mate wall-mounte before proc	d installations, make	e sure you ha	ave the following too	ls and mate-
					ting on drywall: Two m) bit (not included)		) drywall anchors an	d a drill with
				<ul> <li>for moun screws (ir</li> </ul>		studs: two #	<sup>±</sup> 6 x 1.5" (38.1 mm)	) self tapping
				<ul> <li>screwdriv use)</li> </ul>	er (flat-blade or Phi	illips, depen	ding on what kind o	f screws you
				<ul> <li>wall-mou Guide)</li> </ul>	nt template (included	d with the Te	lephony Modem Quic	k Installation
				<ul> <li>transpare wall)</li> </ul>	nt tape (for tempor	arily securir	ig the mounting ten	nplate to the
				<b>ation</b> ays position I	the Telephony Moder	n:		
					ach of an AC outlet. <sup>-</sup> g and without adding		ord must reach the o ords.	utlet without
			•	• near a ca	ble outlet (to avoid l	ong cable ru	ns).	
			Not	lepho	ny Modem so at least	one of the s	on drywall, try to po crews are fastened to m pulling out of the v	o a stud. This
					event overheating of n holes on the sides		ny Modem, do not bl	lock the ven-



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
			Ins	tructions				
				Wall-mount	ing instructions			
	8						rface where you inte with transparent tap	
	Step 1		Step 2				ecified locations for t mplate from the sur	•
			111	the wall le		ut 1/8″ (3 m	e wall. Then, drive th m) between the scr he screws.	
	Step 3		(Step 4)	desired. S	lip both mounting sl	ots (in the ba	cator lights facing u ack of the Telephony the narrow end of the	Modem) over
				5 Proceed to	o <u>Connecting the Tel</u>	lephony Mod	em.	

#### **Desktop mounting instructions**

- **1** Position the Telephony 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** Proceed to <u>Connecting the Telephony Modem</u>.



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
T	M502A/B/C		Con	necting t	he Telephony M	lodem		
				telephon er. Physi removed voltages to do so	e wiring should on cal connections to and the wiring m . Cancellation of te	ly be perfor the previou nust be che elephone se	Modem to the hom rmed by a profession us telephone provide ecked; there must ervice is not adeque and/or permanent	onal install- der must be not be any ate. Failure
,			G 1	other end	to the Telephony Mo	odem's Cable	e cable outlet or spli e connector ( <b>F</b> ). Tigh nal 1/8 turn with a w	ten the con-
ТМ	502G/H						ality coax cable and and the Telephony M	
	<b>○ ○ ○</b> 		2				the Power connector ord into a convenient	
	── <del>▼▼▼</del>			once (refe			ny Modem lights up, See <u>Troubleshooting</u>	
		<b>_</b>	3	After conr	necting the coax cab	le and powe	r, proceed as needed	l:
		Ġ			g Ethernet Connectio			
	<b>A B</b>	G		• <u>Makin</u>	g USB Connections (	all models e	xcept TM502C)	

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

#### **Making Ethernet Connections**

4 Connect one end of the Ethernet cable to the port on the back of the Telephony Modem labeled "Ethernet 10/100," (**D**) 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 Telephony Modem package.



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
				Making USB	Connections			
							SB port on the comp the Telephony Moder	
							y Modem and begin i <u>r PC</u> for driver install	-
				Making Tele	phone Connection	S		
					•		o the telephone port t the other end to th	
							odem and a phone v be plugged into the	



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting Glossary
			Ins	stallin	g USB Driv	vers or	ו Your PC
					ne Telephony Moder hardware and begin		C's USB port, Windows automati he USB drivers.
			•	procedure de nitiate actua	•	to provisior	n the Telephony Modem or other
			Note	: The TN	1502C does not hav	e a USB port	
			-	PC with: - CD-RO - at leas - one of (Windo - ARRIS USB <u>A/B (</u> Modem pa (Windows	we the following be M drive t one free USB port : Windows 98SE, V ows 95 and Window USB Driver CD Cable of appropriate ckage) 98SE systems only	Vindows 200 s NT are <b>not</b> length (a ca ): Windows 9	ble is included in your Telephon
				t the link for	<b>Substructions</b> your operating sys		he installation instructions.
			•		USB Drivers on Win		
			•		USB Drivers on Win		
			•	Installing	USB Drivers on Win	<u>aows ME</u>	



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
					<b>B Drivers on W</b> is to install USB driv		98SE ows 98 Second Edition	on.
			Note	proble		, you plug in t	rder shown to minin he USB cable before iver.	
			1				he <b>Power</b> light shou in <u>Connecting the Te</u>	
			2	Insert the ROM drive		the Telepho	ony Modem package	into the CD-
			3		appropriate end of t end into the comput		e into the Telephony rt.	Modem and
				The follow a new USI		in order, ind	dicating that the PC I	has detected
				Found New Hardw ARRIS F Please Wail	are NDIS Adapter			
				Add New Hardwa	re Wizard This wizard searches for new driv USB Composite Device A device driver is a software prog hardware device work.			
			4	Click Nex	<u> (Back</u> New	D Cancel		



	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

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



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

	Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
	Eloppy disk drives
	CD-ROM drive
	Microsoft Windows Update
<b>**</b>	
<b>A</b>	Specify a location:
S	Browse
and the second sec	DIGWSC:



	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary
				<b>—</b>				

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:

- 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.



	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

**8** If you see the following window, insert your Windows 98 CD when prompted and click OK.



**Note:** After inserting the CD, Windows 98 may revert to searching for networking DLL files on the C: drive, then prompt you for the location of those files. If you see such a prompt, enter **D:\win98** (replace **D:** with the drive letter of your CD-ROM drive, if necessary) to continue the installation.

9 Click the **Next** button.

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



- 10 Remove your Windows 98 CD if you had to insert it.
- **11** Restart your computer when prompted.



Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting Glossary
		:				
		:			the Telepho	ony Modem package into the CD
		:				
					s, indicating	that the PC has detected a new
						n wizard and display the following
			Found New Hardw	Welcome to the Hardware Wizar	d	
			Started Installation Installation	StartedInstallationInstallationDriversInstalling US Follow these stepI Make sure not, const dem.I Make sure 	Started       Installation       Installation       Drivers       Configuration         Hard Starter       Configuration       Started       Started       Starter       Starter         Image: Starter       Starter       Starter       Starter       Starter       Starter       Starter       Starter         Image: Starter       Starter<	Started       Installation       Installation       Drivers       Configuration       Usage         Installing USB Drivers on Windows 2 Follow these steps to install USB drivers on Window (and, connect the AC adapter as described dem.         1       Make sure the Telephony Modem is on (to not, connect the AC adapter as described dem.         2       Installing USB drivers on Window as described dem.         3       Plug the appropriate end of the USB cable the other end into the computer's USB por <i>The following window appears, indicating USB</i> 4       Wait for the system to start the installation window (there may be a short delay):         Image with the Telephony Modem is on (to not, connect the CD that came with the Telephony <i>Description</i> Image with the Telephony Modem is on (to not, connect the CD that came with the Telephony <i>Description</i> Image with the Telephony Modem is on (to not, connect the CD that came with the Telephony <i>Description</i> Image with the Telephony Modem is on (to not, connect the CD that came with the Telephony <i>Description</i> Image with the Telephony Modem is on (to not, connect the Start the installation with the other end into the computer's USB of the transformation of the found Net Hadware Wizard         Image with the Telephony Modem is on the Found Net Hadware Wizard         Image with the Telephony Modem is on the found Net Hadware Wizard          Modemine the device dri



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
				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 Telephony Modem.



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
				the second The wizard Found New Hardw Locate Drive Where do Search for Search for The wizard any of the H To start the insert the fil Optional se Flog Dial Specified Specified Specif	d option to choose a d displays a list of so vare Wizard	a specific driv earch option abase on your computer an peoly. a Noppy disk or ED-RBM di	din	



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
				button. The wiza name of Found New Har Driver Files The wiza The wiza Windows	re the <b>CD-ROM</b> option rd searches the spect the appropriate driver dware Wizard <b>s Search Results</b> and has finished searching for driver files for your and found a driver for the following device: ARRIS RNDIS Adapter s found a driver for this device. To install the d d \attmucture	ified location er. ur hardware device.	ns, then displays the	
				erly, follo	the wizard can not from these steps:		rive, and the CD is in	

- 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.



Safety	Getting Started	Battery Installation	Installation		USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
				8	Click the	Next button.			
						d installs the drivers n is complete.	s, then displa	nys a window indicati	ing that the
					Found New Hard	ware Wizard			



9 Click the **Finish** button.



etting Batto tarted Install			Ethernet nfiguration	Usage	Troubleshooting	Glossary
			r <b>ivers on W</b> install USB drive			
	no				e <b>Power</b> light shou n <u>Connecting the Te</u>	
		nsert the CD t OM drive.	hat came with	the Telephon	y Modem package	into the CD-
			priate end of th nto the compute		into the Telephony	Modem and
		he following w SB device:	indow appears,	indicating th	nat the PC has deteo	cted a new
	Fo	ound New Hardware Wizard	Welcome to the Fe Hardware Wizard This wizard helps you install so ARRIS RNDIS Adapter If your hardware ca or floppy disk, inse What do you want the wizard to Install the software auto Install from a list or spec Click Next to continue.	Itware for: ame with an installation at it now. to do? sific location (Advanced) sific location (Advanced)	CD	



		Usage	Troubleshooting	Glossary
The wizard l	cating that the insta	allation is co und New g the software for: HE DEVICE	ling the drivers, the omplete.	n displays a

**5** Click the **Finish** button.



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
				-	<b>B Drivers on W</b> s to install USB driv		<b>1E</b> ows Millennium Editio	on.
			1				ne <b>Power</b> light shou in <u>Connecting the Te</u>	
			2	Insert the ROM drive		the Telepho	ny Modem package	into the CD-
			3		ppropriate end of t end into the comput		e into the Telephony rt.	Modem and
				The follow a new USE		, indicating t	hat the PC is installin	g drivers for
					und DUCHSTONE DEVICE g the software for your new hardware.			
			4		window disappears f you see an error r		is complete. Contac ny kind.	ct your cable



<ul> <li>Removing USB Drivers</li> <li>If you connect the Telephony Modem USB to your computer before inserting th ARRIS driver installation CD, Windows may install a "composite" USB driver that does not properly support the Telephony Modem. To correct this problem, you must first remove the composite driver using the Remove utility on the ARRIS driver installation CD. Follow these steps to use the Remove utility.</li> <li>Insert the ARRIS driver installation CD.</li> <li>Navigate to the CD drive:</li> </ul>	Safety	Getting Started	Battery Installation	Installation		thernet figuration	Usage	Troubleshooting	Glossary
2 Navigate to the CD drive: 2 Navigate to the CD drive:				If you ARRI does first r	u connect the Tele S driver installation not properly suppo emove the compos	phony Modem U n CD, Windows rt the Telephony site driver using	may instal Modem. To the Remov	l a "composite" US o correct this proble /e utility on the ARI	B driver that em, you must
TM502 Rev 1_0 (0:)   File   Edit   Wew   Factor   Pile   Pile   Edit   Wew   Factor   Pile   Pile   Edit   Wew   Factor   Pile   Address   TM502 Rev 1_0   Pile   Pile   Pile   Address   TM502 Rev 1_0   Pile   Pile <td></td> <td></td> <td></td> <td>1</td> <td>Insert the ARRIS</td> <td>driver installati</td> <td>on CD.</td> <td></td> <td></td>				1	Insert the ARRIS	driver installati	on CD.		
File Edit View Favorities Tools Help     Address     TM502 Rev 1_0     Help     Help     Help     Help     AdbeRdrefo     Help     AdbeRdrefo     Help     AdbeRdrefo     Help     AdbeRdrefo     Help     AdbeRdrefo     Help     Help     Help     Help     AdbeRdrefo     Help     Help     Help     Help     Help     Help     Help     He				2	Navigate to the (	CD drive:			
					File Edit View Favorites	Adberdr60_enu_full Adberdr60_enu_full ARRIS EULA.pdf ARRIS EULA.pdf Adtmusb Attmusb At	TM502B Quick Ir TM502G Quick Ir Susb8023k,sys Usb8023m,sys	EEF ★ @ Go nstall.pdf	

**3** Start the Remove utility by double-clicking it in the window.

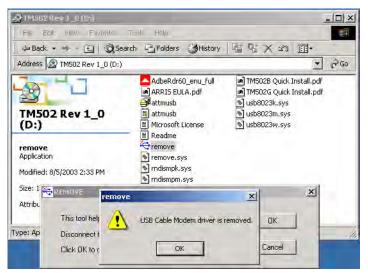
The Remove utility prompts you to click OK to remove the USB driver, or Cancel to quit.



	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

#### 4 Click the OK button.

The Remove utility displays the following message:



**5** Leave the CD in the drive, reconnect the Telephony Modem, and install the USB driver as appropriate for your operating system.



	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

### **Configuring Your Ethernet Connection**

If your computer is equipped with a LAN card providing an Ethernet connection, you may have to configure your computer's TCP/IP settings. The steps that follow will guide you through setting your computer's TCP/IP settings to work with the Telephony Modem.

### Requirements

Make sure you have the following before attempting to configure your Ethernet connection:

- Computer with:
  - one of: Windows 98SE, Windows 2000, Windows ME, or Windows XP (Windows 95 and Windows NT are not supported)
  - Ethernet interface
- Ethernet cable (supplied)
- IP address, subnet, gateway, and DNS information for installations not using DHCP

### How to use this chapter

The following list shows the procedures for modifying the TCP/IP settings on the computer. The procedure is slightly different depending on the operating system that you are using. Please ensure you are using the correct steps for the operating system on your computer. Follow the links below for instructions to configure your ethernet connection on your operating system.

- TCP/IP Configuration for Windows 98SE
- TCP/IP Configuration for Windows 2000
- <u>TCP/IP Configuration for Windows ME</u>
- <u>TCP/IP Configuration for Windows XP</u>



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
				w these step	<b>iguration for</b> os to configure the		<b>BSE</b> gs on a Windows 98	SE operating
			Note	shown	in this procedure	•	r may differ slightly	
			1		ck on the Network  Control Panel  Control  Panel  Network  Configures network  hardware network  hardware stuare,  Microsoft Home  Technical Support	<b>'k</b> icon in the C	gs > Control Pane Control Panel.	-
					Ĩ	ouse Multimedia Network	ODEC Data Passwords Sources (32bit) Sourds Symaniac LiveUpdate	

**3** Click the **Configuration** tab in the Network window to display the list of Network Adapters.

3

Telephony

june )

System

(B)

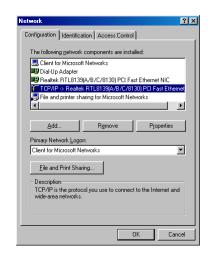
Users Configures network hardware and 🛄 My Computer -



1 object(s) selected

	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

4 Highlight TCP/IP by clicking on it one time, then click on Properties.



**5** Click the **IP Address** tab, click **Obtain an IP address automatically**, then click **OK**.

TCP/IP Properties		? ×
Bindings	Advanced	NetBIOS
DNS Configuration	Gateway WINS Confi	guration IP Address
If your network doe	be automatically assigne is not automatically assig istrator for an address, a	n IP addresses, ask
•	address automatically	
C Specify an IP	address:	
JP Address:		
S <u>u</u> bnet Masl	« · ·	
	OK	Cancel



Safety	Getting Started	Battery Installation	Installation		USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
				6	Click <b>OK</b> tion winde	•	ettings, and	<b>OK</b> again to close th	e Configura-
				7		nave to restart your address from the ne		order for your compu	iter to obtain

-end-



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
				v these step	iguration for W os to configure the T		1 <b>000</b> Igs on a Windows 20	00 operating
			Note	5	boxes shown on y in this procedure.	our comput	er may differ slightly	/ from those
			1		computer, select Sta > Local Area Con		gs > Network and <b>E</b>	Dial-up Con-
			2		al Area Connections one time, then click	•	vindow, highlight <b>TCP</b> es.	/IP by click-
				select the	appropriate Etherne Connection Propertie	et card in the s window. Properties hernet 100 + Modem 56 (E e used by this connection: ft Networks work. Enhancer haring for Microsoft Network (TCP/IP)	Configure ks Properties	
					across diverse interco			



OK

Cancel

	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

**3** Click **Obtain an IP address automatically** and **Obtain DNS server address automatically**, then click **OK**.

Local Area Connection 2 Properties	
General	
Internet Protocol (TCP/IP) Properties	
General	
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.	
Obtain an IP address automatically	
C Use the following IP address:	
IP address:	
Subnet mask:	
Default gateway:	
Obtain DNS server address automatically	
C Use the following DNS server addresses:	
Preferred DNS server:	
Alternate DNS server:	
Advanced	
OK Cancel	

- 4 Click **OK** to accept the new settings, and **OK** again to close the Configuration window.
- **5** You may have to restart your computer in order for your computer to obtain a new IP address from the network.

-end-



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Etherne Configurat		lsage	Troubleshooting	Glossary
			-		figuration f ps to configure			<b>E</b> s on a Windows ME o	operating sys-
			Note:		g boxes show n in this proce		compute	r may differ slight	y from those
			1	From the	e computer, sel	ect <b>Start &gt;</b>	Setting	gs > Control Pane	el.
			2	Double c	lick on the <b>Ne</b>	<b>twork</b> icon	in the C	Control Panel.	
					Ele Edit View Favorites Io		AddRemove A Programs L Folder Options Mail P Rever Options	Image: constraint of the second se	
					Configures network hardware and softw	Users		🥥 My Computer	

**3** Click the **Configuration** tab in the Network window to display the list of Network Adapters.

	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

4 Highlight **TCP/IP** by clicking on it one time, then click on **Properties.** 

etwork	?
Configuration   Identification   Access Control	
The following network components are installe	ed:
ARRIS TOUCHSTONE DEVICE	
🕮 Dial-Up Adapter	
TCP/IP -> 3Com 3C918 Integrated Fast E	
TCP/IP -> ARRIS TOUCHSTONE DEVIC	E
TCP/IP -> Dial-Up Adapter	<b>•</b>
	•
Add Remove	Properties
Primary Network Logon:	
Client for Microsoft Networks	-
I	
File and Print Sharing	
Description	
TCP/IP is the protocol you use to connect to	o the Internet and
wide-area networks.	o the monitor and
01	Cancel

5 Click the **IP Address** tab, then click **OK**.

TCP/IP Properties		<u>?</u> ×						
Bindings	Advanced	NetBIOS						
DNS Configuration	Gateway WINS Confi	guration IP Address						
If your network doe	be automatically assigne is not automatically assig nistrator for an address, a	n IP addresses, ask						
Obtain an IP O Specify an IP	address automatically address:							
JP Address:								
Sybnet Masl	« <b>.</b> .							
Detect conne	Sydnet Mask:							
	40	Cancel						



Safety	Getting Started	Battery Installation	Installation		USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
				6	Click <b>OK</b> tion winde	•	ettings, and	<b>OK</b> again to close th	e Configura-
				7		nave to restart your address from the ne		order for your compu	iter to obtain

-end-



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
				-	<b>iguration for W</b> is to configure the TC		<b>P</b> s on a Windows XP o	perating sys-
			Note	-	boxes shown on y in this procedure.	our compute	er may differ slightly	y from those
			1				ngs > Control Pane n the Control Panel.	and double
			2	Click the Network A	-	in the Netw	ork window to displ	ay the list of
						tus 🥐 🔀		



Connection

Status:

Duration:

Speed:

Activity

Bytes:

Properties Disable

Connected

00:03:21

12.0 Mbps

Received

43,986

Close

Sent — 🛃

12,198

	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

3 Highlight **TCP/IP** by clicking on it one time, then click on **Properties.** 

	Addicition	Jauon	Advanced		
Connec	et using:				
999 A	ARRIS TO	JCHSTC	INE DEVICE		
-				-	Configure
This or	nnection (	icae tha f	ollowing item:	51	Conligue
	a set of the contra	Supression and	ft Networks	ə,	
all			rt Networks haring for Mic	receit ble	huadra
	QoS Pac			IDSOIL INB	WORKS
	Internet				
	AMALANDIAN				
			Uninstall		Properties
	nstall				
<u></u>	nstall ription	_			
Desc	- ription Ismission C				ol. The default
Desc Trar wide	ription Ismission C I area netw	ork prote	otocol/Interne ocol that prov	ides com	
Desc Trar wide	ription Ismission C I area netw	ork prote	col that prov	ides com	
Desc Trar wide acro	ription Ismission C I area netw ss diverse	vork proto interconr	col that prov	ides com rks.	munication

4 Click the **IP Address** tab, click **Obtain an IP address automatically**, then click **OK**.

neral Alternate Configuration	
	d automatically if your network supports ed to ask your network administrator for
⊙ Obtain an IP address auton	natically
OUse the following IP addres	\$.
JP address:	
Sybnet mask:	
Default gateway:	
Obtain DNS server address	automatically
OUse the following DNS serv	er addresses:
Preferred DNS server:	
Alternate DNS server	
	Advanced



Safety	Getting Started	Battery Installation	Installation		USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
				5	Click <b>OK</b> tion wind	•	ettings, and (	<b>OK</b> again to close th	e Configura-
				6		have to restart your address from the ne		order for your compu	iter to obtain

-end-



	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

### **Using the Telephony Modem**

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

- Setting up Your Computer to Use the Telephony Modem
- Indicator Lights for the TM502A/B/C Models
- Indicator Lights for the TM502G/H Models
- Using the Reset Button

### Setting up Your Computer to Use the Telephony 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.



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ether Configui		Usage	Troubleshooti	ng Glossary	
			Indicator Lights for the TM502A/B/C Models The Touchstone Telephony Modem has seven LEDs to assist in troubleshooting.							
Powee O 55 O 55 O 01100 01100 01100			dicates a pr (touching), more than call a wiring <b>Patterns:</b> I	hony Mod roblem wir or there 10 second g technicia Normal C	th the teleph may be und ls, disconnec an for assista <b>Operation</b>	none wiring - esired voltag at the telepho	<ul> <li>the red a ge on the li one lines fro</li> </ul>	nd green wires nes. If this pat om the Telepho	seconds, this in- may be shorted tern persists for ny Modem, then	
		× se) 0 1 -	Mode	Power	DS	US	Online	Link	Tel. 1/Tel. 2	
Telephone 0			AC Power	On	<b>On</b> = Connected to the Internet Flash = Not connected to the Internet	On = Connected to the Internet Flash = Not connected to the Internet	<b>On</b> = Internet Available Off = Internet not available	On = Computer Connected Off = Computer not connected Flash = Computer Activity	<b>On</b> = On-hook Flash = Off- hook Off = disabled	
			No AC Power	Off	Off	Off	Off	Off	Off	
	40 <sup>3</sup>		Firmware Upgrade	On	Flash	Flash	On	(normal operation)	(normal operation)	
	<u> </u>									



Safety	Getting Started	Battery Installation	Installa	ation	USB Drivers	Ethern Configura		Usage Tr	oubleshooting	Glossary
Powee DS DS DS DS DS DS DS DS DS DS DS DS DS	50 05		The Touchs not all mod Wiring Pro If the Telep lem with the be undesire telephone I Indicator	tone Telep lels have a <b>oblems</b> hony Mod le telepho ed voltage lines from <b>Lights: N</b>	phony Mode a Battery lig em begins fl ne wiring — e on the lines the Telepho <b>lormal Ope</b>	ht. ashing all its the red and s. If this patt ony Modem, eration batterns duri US On = Connected to the Internet	indicator li lights for r green wire ern persist then call a	ghts to assist i nore than 10 set as may be shor s for more that wiring technic operation. Link On = Computer Connected Off = Computer not	n troubleshootir econds, this indic ted (touching), o n 10 seconds, di ian for assistanc <b>Tel. 1/Tel. 2</b> <b>On</b> = On-hook Flash = Off-hook	Battery good or low Off = Battery missing or
					Not connected to the Internet	Flash = Not connected to the Internet	Internet not available	connected Flash = Computer Activity	Off = disabled	MTA not registered Flash = Battery bad
			No AC Power Battery Installed	Flash	Off	Off	Off	Off	<b>On</b> = On-hook Flash = Off-hook	Off = Battery power Flash =

No AC Power

No Battery

Firmware Upgrade

Off

On

Off

Flash

Off

Flash

Off

On

Battery bad or low

Off

(normal operation)

Off = disabled

Off

(normal operation)

Off

(normal operation)

	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

### **Indicator Lights: Startup Sequence**

The following table shows the Telephony Modem light patterns during each phase of the startup sequence. There are two phases of startup; the Telephony phase and the cable modem phase. Both are outlined below.

Power, DS, US,	Link	Telep	hone	Battery*	Description				
Online		1	2		-				
Off	Off	Off	Off	Off	No power to Cable Modem				
Flash	Flash	Flash	Flash	Flash	Power-on Self Test				
		See "Cable Modem		Start Up Se	quence" Below				
On	On	Flash	Off	Off	Retrieving telephone network information				
On	On	Off	Flash	Off	Retrieving telephone line information				
On	On	Flash	Flash	Off	Activating telephone service				
Normal Operation * = Battery LEDs only apply to those models with battery backup									

#### **Cable Modem Start Up Sequence**

DS	US	Online	Link	Description
Flash	Off	Off	Off	Downstream search
On	Flash	Off	Off	Downstream found; upstream search
On	On	Flash	Off	Downstream and Upstream found; retrieving setup information from cable operator



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
	//B/C	yO	Use as are Use the	if you power cy having proble a pointed <b>no</b> r location of the	utton, on the back o vcled the unit. You n ems connecting to th	hay need to he Internet. he press this b	ony Modem, to rese reset the Telephony M Using this button wil utton. The photo to t tal resets.	Modem if you I be rare.
	Reset B	utton						
TM502G	/H -□-□-V 							



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
			Ті	roubles	hooting			
			Pro	oblems an	d Solutions			
			The				e Power light is off er cord plugged in fi	
				If you plu switched o		d into a po	wer strip, make sure	e the strip is
				Avoid usir	ig an outlet controlle	ed by a wall	switch, if possible.	
				Finally, ch	eck the fuse or circu	ıit breaker p	anel.	
			I'm	It may ta power up Always lea	your Telephony Mod	em, especia	n a connection the fi Ily when many peopl ged into AC power ar	le are online.
				Check the	front panel lights:			
				• Th	e Power and Online	<b>e</b> lights shou	uld be on.	
				• Th	e <b>Link</b> light should b	oe either on	or blinking.	
					the <b>Power</b> light blin mpany for assistance		than 30 minutes, ca	all your cable
				<u>cable</u> sho cause a b you have	uld not be pinched, reak or short in the one or more splitte nove the splitters a	kinked, or cable (you r rs between	s should be finger-tig bent sharply—any nay have to replace the Telephony Mode the Telephony Mode	of these can the cable). If m and CATV
				Proceed to	o the Ethernet or US	B solutions	(next page) if necess	sary.



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting Glossary
				not getting	on the Internet. ( using a hub, is the	Ethernet)	
					nection to a comput		<u>cable</u> ? Use the supplied cable for oss-over cable for connection to a
				Press the	Reset button on the	e back of the	e Telephony Modem.
			I'm ı		on the Internet. ( ad the USB drivers?		
				If you are	using a powered US	6B <u>hub</u> , is th	e hub turned on?
				Check the	USB cable connection	ons. Disconr	nect and reconnect the USB cable.
				Restart the	e computer.		
				Press the	Reset button on the	e back of the	e Telephony Modem.
			I'm ı	In some ca	on the Internet. ( ases, Windows may ephony modem driv	install a "cor	mposite" USB driver instead of the
				<ul> <li>Discon Moder</li> </ul>		e between t	he computer and the Telephony
				• Use th			emoving USB Drivers) to remove
				Reboot	the computer.		
				Reinsta	all the drivers as de	scribed in <u>In</u>	stalling USB Drivers on Your PC.
			I car	If the Web ble servici	ng all the requests. nd try again. Usage	is very pop If other site	<b>slow.</b> ular, that site may be having trou- s download quickly, wait for a few k hours may also affect the con-
				directly or			a LAN (Local Area Network), either nunications on the LAN may slow



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
				<b>get on the</b> Check yo	<b>mputers connected</b> <b>Internet.</b> ur cable company's to connect directly to th	erms of servi	ice: they may allow o	-
			I de	In order telephone configure	al tone when I pic for telephone servic e service must have ed on your Telephony og the source of the p	e to be fund been purcha / Modem. Tl	ctional on the Teleph sed from the service	provider and
				• Is the Po	wer LED lit?			
					not, check to make le outlet has power.	sure the Tel	ephony Modem is plu	ugged in and
				• If	the LED is lit, go to	the next ste	р.	
				• Is the On	line LED lit?			
				Wa	not, check the coax all. Ensure they are c ave dial tone, contact	onnected an	d tight. If they are ar	
				• If	the Online LED is lit,	go to the n	ext step.	
				• Is the Tel	lephone (Telephone :	or Telepho	ne 2) LED lit?	
					not, phone service h our service provider.	as not been	provisioned on that	line. Contact
					it is blinking, there nd that phone and h		ff hook somewhere i	n the house.
				• If	it is lit, go to the ne	kt step		
				• Is the Ph	one plugged directly	into the Tele	ephony Modem?	
				le	ake sure the phone i phony Modem labele r line 1, and "Tel 2" 1	d "Tel 1/2" (		
					so, try a different p none.	hone. Make	sure the new phone	is a working
				a	a known good phone different phone cable ne, call your service	e. If a new pl		

	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary

• Is the Telephony Modem plugged into a wall outlet?

• If so, unplug the RJ-11 connector at the back of the Telephony Port and plug in a known working phone. If you now have dial tone, the problem is with the house wiring. Contact your MSO or a qualified wiring technician to correct the house wiring. If you still do not have dial tone, contact your service provider.



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
			Follo				-detect the Telephon	y Modem us-
				You have p in <u>Installin</u> You have <u>Your PC</u> . The cable	g and Connecting ) installed the USB of company has set	<u>Your Telephon</u> Irivers as sh	d the Telephony Moden ny <u>Modem</u> . own in <u>Installing US</u> ount. Call your cable	B Drivers on
			Inst	you're not ructions	sure.			
				. Be sure tha			er Windows 98SE, Wi 95 and Windows NT	
			2	Be sure th	e Telephony Moden	n has power.	The <b>Power</b> light sho	ould be on.
			3		<b>teset</b> button on the other sharp non-m		of the Telephony Mo	dem, using a
			4	Disconnec	t the USB cable from	m the compu	iter and reconnect it	
			5	Restart the	e computer.			
			6	<ul> <li>a. Discon</li> <li>b. Insert</li> <li>c. Start the tions of the tions of the tions of the tions of the tions.</li> <li>d. Reconstructions of the tions o</li></ul>	nect the USB cable the Telephony Mode ne Remove utility o arefully. nect the USB cable.	to the Telep em CD-ROM n your CD-R	tall your USB drivers hony Modem. into you computer. OM. Follow the on-sc nstalling USB Drivers	reen instruc-
			8	Call your c	able company for h	nelp.		

Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary				
			Gl	ossary								
			The	The following is a list of common cable and networking terms.								
			A/B	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.								
			Amp	Amp-hour (Ah) A measure of battery capacity. For example, a 1.0Ah battery can nominally supply one Ampere of current for one hour.								
			Cate		ality type of cable,		st Ethernet (100Bas lways look for Categ					
			Coaxial cable (coax) A thin wire, used to connect your television and Telephony Modem t cable TV system. You can buy coax from any electronics retailer and i discount stores.									
			СРЕ	Customer	Premise Equipment ony modem; typica		equipment that is p er, hub, or router.	olugged in to				
			Cros	together.	Also, some Ethernet	hubs may h	os (or a hub and a ca ave built-in cross-ov a cross-over cable).	ver on one or				
			DHC	Dynamic H address a device cor	nd location of serv	ices (such a vork. DHCP a	IP protocol used to p as DNS and TFTP) i allows the cable com re for you.	needed by a				
			DNS	Domain N	ame Service (Servich as www.example.		ervice that associat	es a domain				



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
			Dov				the head-end to the the the the bead of the	
			DO				cation. The interope oment on an HFC net	
			EMT	Embedded	l Multimedia Termin le modem.	al Adapter.	An MTA device that	is integrated
			Eth	<b>ernet</b> A standard Network (		ting two or r	nore computers into	a Local Area
			Eur	o <b>DOCSIS</b> The Europ	ean version of DOC	SIS.		
			Eve		ational message use	ed for monito	oring network status	
			F-co	F-connecto		w-on. Use co	. There are two com bax with screw-on co	
			Gat	<b>eway</b> The device other IP si		hat connect	s devices on a given	IP subnet to
			Hea	data equip		le networks	e headend houses bo , a "master" headend ributed services.	
			нтт	=	Transfer Protocol.			



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
			Hub					
			Tub	common p	point of contact for a	all connected	nectors. Ethernet hu 1 devices; USB hubs ard in your compute	allow you to
			TD ad	ldress				
			IF du	A number	assigned to your co computer to other sy		our cable company, e Internet.	used to iden-
			ISDN	1				
			1500	Integrated			ital telephony stand as fast as standard d	
			LAN					
					a Network. A netwo a building) to comm		vs computers in a si one another.	ngle location
			LED					
					ting Diode. A semi- through it.	conductor di	ode that emits light v	when current
			ΜΔΟ	address				
				A number cable com access to	npany uses your Te	lephony Mod IAC address	ice connected to a n dem's MAC address is printed on a labe	to authorize
			Proto					
			FIOL	A set of ru	ules and formats than the state of the state		s the communication	n behavior of
			Brow					
			Proxy	A device of site) and burden fro proxy tha those pag	a client (your brow om the server. For ex t keeps copies of p	ser), providi xample, you oopular web ng them dire	en a server (for exang a way to relieve r cable company may pages; the proxy c ectly from the web s ongestion.	some of the have a web an send you



	Getting	Battery		USB	Ethernet			
Safety	Started	Installation	Installation	Drivers	Configuration	Usage	Troubleshooting	Glossary
			RF		on for Radio Frequ I the connectors as		literature refers to ors."	coax as "RF
			RJ-1	1				
				A standar	d 4-pin modular cor g telephones.	nector, com	monly used in North	America for
			RJ-4	5				
							monly used on Ether telephone) connector	
			Split					
				may need that you v	a splitter if you have	ve a TV alreaur ar Telephony	one input and two ady connected to the Modem. You can b count stores.	e cable outlet
			Swite	ched outlet	:			
				intended 1		ugging your	d off using a wall sw computer or Telepl	
			TCP/	'IP				
							Protocol. The protoconore connected netwo	
			TDM	Α				
							used by DOCSIS-cor minimal interference.	
			Upst	ream				
							headend. Some older path or reverse path	
			USB					_
				sories, su		nice, printe	or connecting a varients, and communicat uter.	



Safety	Getting Started	Battery Installation	Installation	USB Drivers	Ethernet Configuration	Usage	Troubleshooting	Glossary
					<u> </u>		5	

WHQL

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





### **Touchstone** TM502 Telephony Modem User's Guide

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