Touchstone[®] TG852 **Telephony Gateway 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 TG852 Telephony Gateway brings it all to you faster and more reliably. All while providing toll quality Voice over IP telephone service and both wired and wireless connectivity. It also provides a Lithium-Ion battery backup to provide continued telephone service during power outages.

The Touchstone Telephony Gateway provides four Ethernet connections for use as the hub of your home/office Local Area Network (LAN). The Touchstone Telephony Gateway also provides 802.11b/g/n wireless connectivity for enhanced mobility and versatility. In addition, the Touchstone Telephony Gateway 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 Removal

Installing and Connecting Your Telephony Gateway

Configuring Your Ethernet Connection

Using the Telephony Gateway

Troubleshooting

Glossary

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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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Protected under one or more of the following U.S. patents: 7,031,435; 7,100,011. Other patents pending.

ARSVD01310 Release 8 Standard 1.4 January 2011

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary

Safety Requirements

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



CAUTION

Risk of shock

Mains voltages inside this unit. No user serviceable parts inside. Refer service to qualified personnel only!



CAUTION

Potential equipment damage Potential loss of service

Connecting the Telephony Gateway to 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 Gateway.



CAUTION

Risk of explosion

Replacing the battery with an incorrect type, heating a battery above 75°C, or incinerating a battery, can cause product failure and a risk of fire or battery explosion. Dispose of used batteries according to the instructions.

- The Telephony Gateway is designed to be connected directly to a telephone.
- Connecting the Telephony Gateway 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.

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary		
			• D	o not use spray clear	iers or aeroso	ols on the Telephony Ga	ateway.		
				void using and/or cor void risk of electrocu		equipment during an el	ectrical storm, to		
			• D	o not use the telepho	one to report	a gas leak in the vicinit	ty of the leak.		
				 Do not locate the equipment within 6 feet (1.9 m) of a flame or ign source (i.e. heat registers, space heaters, fireplaces, etc.). 					
			• U	se only power supply	and power c	ord included with the e	equipment.		
				quipment should be ccessible.	installed near	the power outlet and	should be easily		
			e st C C 6 <i>ti</i>	ntrance to the buildin tallation codes. In the ode) Article 820. In ATV installation equi 0728-11, Cable netw ve services, Part 11:	g in accordar U.S., this is the Europear potential bon orks for telev Safety. This	be connected to earth (ice with applicable nation required by NFPA 70 (Non Union and in certain ding requirements are <i>ision signals, sound sig</i> equipment is intended of IEC 60728-11 for saf	onal electrical in lational Electrica other countries specified in IEC nals and interac to be installed in		
			n g	etwork, as is found in	n many areas ion is in acco	in an area serviced by of Norway, special att rdance with IEC 60728	ention should be		
			to P	b lightning strikes,	additional su	or grounding situations rge protection may b onversion) on the AC,	e required (i.e		
			e ic p	rnet cables, the comp lence AC ground net	outer must be work. All plug	nected to a local compu- e properly grounded to g-in cards within the co the computer frame p	the building/res		

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FCC Part 15

This equipment has been tested and found to comply with the requirements for a Class B digital device under Part 15 of the Federal Communications Commission (FCC) rules. These requirements are intended to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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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 Gateway 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.

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			Getti	ng Starteo	1		
			About	Your New Te	lephony	Gateway	
			The Touch features:	nstone TG852 Teleph	ony Gateway	is DOCSIS compliant v	with the following
				eed: much faster th an DOCSIS 2.0 cable		ISDN service; up to e	ight times faster
				nvenience: supports n be used simultane		802.11b/g/n wireless o	connections; both
				exibility: provides tw gh speed data	o independe	nt lines of telephone s	ervice as well as
			• Co	mpatibility:			
			-			npliant and backward iered data services (if	
			-	Telephony services	: PacketCable	e™ 1.5 or 1.0 complian	t
			The TG85	2 provides:			
			• Wi	reless 802.11b/g/n	connectivity		
			• Fo	ur Ethernet ports for	- connections	to non-wireless device	S
			• Up	to two lines of telep	ohone service	2	
			• DC	CSIS 3.0 compliant	with Li-Ion b	ackup battery	
			• Or	e USB host port (fu	ture support f	for external USB device	es)
			What's	s in the Box?			
				e you have the follow ance if anything is m		ore proceeding. Call you	ur cable company
			• Te	lephony Gateway			
			• Po	wer Cord			
			• Ba	ttery			

						AI	KKIS
Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary
			 Qu Eti Mi No 	all-Mounting Templa lick Installation Guid hernet Cable ni CD-ROM (80mm) ote : An adapter is re d User License Agre	de equired for slo	ctions t-loading drives. Adapto	er is not included.
/				s on the CD?			
			• Qu • Us	rovides the following uick Install Guide er's Guide You Need	g items:		
S				e installing the Telep ms on hand before		y yourself, make sure	you have the fol-
	Coax Cable	e		lephony Gateway the package.	package : se	ee <u>What's in the Box?</u>	for a list of items
			ca ne rei en on sh	ble with a connector ct to your televisior tailer and many dis ds. There are two to connectors are be	on each end. for cable TV. count stores ypes of conne est for use wi	In the image to the lef It is the same kind of You can buy coax from make sure it has con- ctors, slip-on and scree th your Telephony Gate m your Telephony Gate	wire used to con- m any electronics nnectors on both w-on; the screw- teway. The coax
			са	ble with standard p	hone connect	age to the left, this is a fors (RJ11 type) on bo nics retailer and many	th ends. You can
			• Sp	litter (optional):	provides an e	xtra cable connection	by splitting a sin-

Phone Cable

• **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

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any electronics retailer and most discount stores; you may also need a short piece of coax cable (with connectors); use it to connect the splitter to the cable outlet and then connect the Telephony Gateway 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 deteriorate the quality of your television, telephone, and/or internet connection.

- **Wall-mount hardware (optional)**: if you want to wall-mount your Telephony Gateway, you need to obtain two drywall anchors or wood screws. See the Wall-Mount Template and Instructions for more details.
- **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.

Getting Service

Before trying to use your new Telephony Gateway, contact your local cable company to establish an Internet account and telephone service. When you call, have the following information ready:

- the Telephony Gateway serial number and cable MAC addresses of the unit (printed on a sticker on the bottom of the Telephony Gateway)
- the model number of the Telephony Gateway

If the Telephony Gateway was provided by your cable company, they already have the required information.

In addition, you should ask your cable company the following questions:

- Do you have any special system requirements or files that I need to down-load after I am connected?
- When can I start using my Telephony Gateway?
- Do I need a user ID or password to access the Internet or my e-mail?
- Will my phone number(s) change?
- What new calling features will I have and how do I use them?

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System Requirements								

The Touchstone Telephony Gateway 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 Telephony Gateway, you need DOCSIS high-speed Internet service from your cable company. Telephone service requires that the cable company has PacketCable support.

Recommended Hardware

The following hardware configuration is recommended. Computers not meeting this configuration can still work with the TG852, but may not be able to make maximum use of TG852 throughput.

- CPU: P4, 3GHz or faster
- RAM: 1GB or greater
- Hard drive: 7200 RPM or faster
- Ethernet: Gig-E (1000BaseT)

Windows

Windows 2000, Windows XP, Windows Vista, or Windows 7. A supported Ethernet or wireless LAN connection must be available.

MacOS

System 7.5 to MacOS 9.2 (Open Transport recommended) or MacOS X. A supported Ethernet or wireless LAN connection must be available.

Linux/other Unix

Hardware drivers, TCP/IP, and DHCP must be enabled in the kernel. A supported Ethernet or wireless LAN connection must be available.

Glossary



- 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.
- The TG852 ships with wireless LAN security set by default (for the same reasons that you should run only secured proxies). See the security label on your product (shown on image at the left) for the factory security settings. If you need to modify the default wireless security settings, see <u>Configuring</u> Your Wireless Connection.



violating your terms of service.



you will need an Ethernet hub (available at computer retailers.)

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Basic Backup Battery (black)



Basic Backup Battery (grey)



Extended Backup Battery

Battery Installation and Removal

The TG852 Telephony Gateway supports a Lithium-Ion backup battery to provide backup in the event of a local power loss. The battery backup is not intended to take the place of AC power.

Note: For safety and regulatory purposes, batteries are shipped outside of the Telephony Gateway and must be installed.

The TG852 supports the following battery models:

• **Basic backup battery** — provides up to 5 hours (black) or 8 hours (grey) of backup time, depending on your Telephony Gateway model and usage. It may be light grey (recommended battery) or black.

Basic Battery Installation and Replacement

• **Extended backup battery** — provides up to 12 hours of backup time, depending on model and usage. It has a strap between the battery guides.

Extended Battery Installation and Replacement

Your cable company may include a backup battery with your Telephony Gateway. You can order any of the batteries shown here at http://yourbroadbandstore.com/









2 Hold the battery pack so that the guides on the battery align with the slots on the Telephony Gateway and slide the battery into the bay. The diagram on the left shows the proper orientation.

Note: Batteries will not insert completely into the Telephony Gateway 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 and apply even pressure on both ends of the battery.

WRONG	WRONG	RIGHT



Installing and Connecting Your Telephony Gateway

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 <u>items you need</u>.
- 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.

If you have ordered service, your cable company should configure the Telephony Gateway automatically. You need only follow the instructions in this section to install and connect the Telephony Gateway.



CAUTION

Risk of equipment damage

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



- **A WPS** button: begins associating the Telephony Gateway with a wireless device.
- **B Reset** button: resets the Telephony Gateway as if you power cycled the unit. Use a pointed non-metallic object to press this button.
- C USB: USB host connector future support for external USB devices
- **D Telephone 1/2**: connector for the first phone line (or both lines of a 2-line phone).
- **E Telephone 2**: connector for the second phone line.
- F Ethernet (1 4): connectors for use with a computer LAN port.
- **G Cable**: connector for the coaxial cable.
- **H Power**: connector for the power cord.



 Selecting an Installation Location There are a number of factors to consider when choosing Telephony Gateway: Is an AC outlet available nearby? For best result switched and should be close enough to the Telephony Gate are not required. Is a cable jack available? For best performance, ters between the jack and cable drop to a minimu (reduces) the signal available to the Telephony G splitters can slow down the Internet connection phone service. Can you easily run cables between the Telephony Gateway's location at least one of the screws are fastenent? For ing the Telephony Gateway on provide a solid surface for secure attachment? For ing the Telephony Gateway from pulling out of the wall in the 	ing	Glossary
 Telephony Gateway: Is an AC outlet available nearby? For best result switched and should be close enough to the Telepsion cords are not required. Is a cable jack available? For best performance, ters between the jack and cable drop to a minimu (reduces) the signal available to the Telephony G splitters can slow down the Internet connection phone service. Can you easily run cables between the Telephon the phones? If you are connecting devices to the Ethernet pobles between the Telephony Gateway's location at least one of the screws are fastened to a stud. phony Gateway from pulling out of the wall in the screws are fastened to a stud. 		
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 bles between the Telephony Gateway's location a If you want to mount the Telephony Gateway o provide a solid surface for secure attachment? Fo ing the Telephony Gateway on drywall, position at least one of the screws are fastened to a stud. phony Gateway from pulling out of the wall in the 	Satewa	ay's location an
provide a solid surface for secure attachment? Fo ing the Telephony Gateway on drywall, position at least one of the screws are fastened to a stud. phony Gateway from pulling out of the wall in th		
If you want to install the Telephony Catoway on	st resu Teleph s may p	lts when mount ony Gateway s
space on either side to keep the vents clear? Blo overheating.		
 How close are your wireless devices? The Teleph nection range is typically 100-200 feet (30m-6 can affect connection range, as described below. 		

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Factors Affecting Wireless Range

A number of factors can affect the usable range for wireless connections.

Increases range:	•	Raising the unit above the devices (for example, in- stalling the Telephony Gateway in the upper floor of a multi-story dwelling)
	•	Adding wireless hubs in a bridge (WDS) network
Decreases range:	•	Lowering the unit below the devices (for example, in- stalling the Telephony Gateway in a basement)
	•	Metal or concrete walls between the Telephony Gate- way and other devices
	•	Large metal appliances, aquariums, or metal cabinets between the Telephony Gateway and other devices
	•	Interference and RF noise (2.4 GHz wireless phones, microwave ovens, or other wireless networks)

Note: Note that decreasing the range of your wireless network may be beneficial, as long as the decreased range is sufficient for your needs. By limiting your network's range, you reduce interference with other networks and make it harder for unwanted users to find and connect to your network.

Note: Setting the trasmit power level to High increases the range. Setting it to Medium or Low decreases the range proportionately.



- wall-mount template (included)
- transparent tape: for temporarily securing the mounting template to the wall (not included)

Location

Step 4

Step 3

Always position the Telephony Gateway:

- within reach 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).

Instructions

Wall-mounting instructions

Note: When mounting the Telephony Gateway on drywall, try to position the Telephony Gateway so at least one of the screws is fastened to a stud. This may prevent the Telephony Gateway from pulling out of the wall in the future. To prevent overheating of the Telephony Gateway, do not block the ventilation holes on the sides of the unit.

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						the surface where you in place with transpare	
						the specified locations the template from the	
			t		of about 1/8	nto the wall. Then, driv " (3 mm) between the drive the screws.	
			d o	esired. Slip both mo	unting slots (slide the case	the indicator lights faci in the back of the Tele e down until the narrow	phony Gateway
			5 P	roceed to <u>Connecting</u>	the Telephor	<u>ny Gateway</u> .	
			Deskto	p mounting instruct	ions		
			1 P	osition the Telephony	Gateway so	that:	
			•	air flows freely aro	und it		
			•	the back faces the	nearest wall		
			•	it will not fall to the	e floor if bum	ped or moved	
			•	the ventilation hole	es on the side	of the unit are not blo	cked.
			2 P	roceed to <u>Connecting</u>	the Telephor	<u>ny Gateway</u> .	

Connecting the Telephony Gateway



WARNING Risk of injury or equipment damage

Connecting the Telephony Gateway 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 voltage. Cancellation of telephone service is not adequate. Failure to do so may result in loss of service and/or permanent damage to the Telephony Gateway.

1 Connect one end of the coax cable to the cable outlet or splitter, and the other end to the Telephony Gateway's Cable connector (G). Tighten the connections by hand, then tighten an additional 1/8 turn with a wrench.

Note: For best performance, use high-quality coax cable and minimize or eliminate splitters between the cable jack and the Telephony Gateway.

2 Insert the plug from the power cord into the Power connector on the back of the Telephony Gateway (H) and insert the power cord into a convenient AC outlet.

The Power light on the front of the Telephony Gateway lights up, then flashes once (refer to the LED tables shown in Using the Telephony Gateway). See <u>Troubleshooting</u> if the Power light does not turn on.

3 Connect one end of the Ethernet cable to any Ethernet port on the back of the Telephony Gateway, (**F**) 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 Gateway package.

4 Connect one end of the telephone cable to the telephone port on the back of the Telephony Gateway (**D** or **E**). Connect the other end to the telephone.

Note: If you have a phone with two separate lines on a single RJ-14 cord, plug it into the connector labeled "Telephone 1/2".





instructions.
Accessing the Configuration Interface

If you need to modify the Telephony Gateway's default wireless security settings, or if you want to configure any other wireless LAN settings, refer to the following

Follow these steps to access the configuration interface. You should have already set up the TG852 as described in <u>Installing and Connecting Your Telephony Gateway</u>.

1 a) If security has been properly set up on your computer to access the wireless LAN on the TG852, use the connection utility for your operating system to connect to the wireless LAN using its network name (SSID), as shown on the security label.

b) If you cannot access the wireless LAN, you must first establish a wired Ethernet connection between your computer and the TG852.

2 In your web browser, open the page http://192.168.0.1/ to access the wireless router setup.

The Login screen displays.

system security.

Note: The default user name is "admin". The default password is "password", in lower case letters.

3 Enter the user name and password and click the **Apply** button to log in.

The System Basic Setup screen displays.

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			4 Use	e the online help inf	ormation to se	et configuration parame	eters as required.

Note: Most configuration parameters that you may want to set can be accessed on the System Basic Setup screen, including the security mode and setting a system password.

Setting Parental Controls

The Parental Control feature allows you to block specified keywords and web sites from being accessed and also to specify trusted computers in the network. Trusted computers are not affected by the parental control settings.

Follow these steps to set up your Parental Controls:

- **1** Access and log into the wireless configuration interface as explained in <u>Accessing the Configuration Interface</u>.
- 2 Click the **Firewall** tab and then click **Parental Controls** in the side menu to display the Parental Controls screen.
- **3** Check the **Enable Parental Controls** checkbox and click the **Apply** button.

Basic Setup	WAN Setup	LAN Setup	Wireless Setup	Firewall	Utilities				
FIREWALL		Parenta	al Controls						
FIREWALL SETTING	19		ental Controls on your						
VIRTUAL SERVERS			st of Trusted MAC Add n. To add a Keyword o						
PORT THOSERS			s check box and then o			ente cue estient. Is	a stere a menny	NO OF THE SILE IN OTHER	ia.
CLIENT IP FILTERS									
DMZ.									
PARENTAL CONTRO	1.7	Parental							
		Enable Pare	ntal Controls						
		Trusted M	Anc						
		Trusted Mac				and		2	
						and 1			
		Apply							
		Keyword	Filtering						
		Keyw	and	Day			Time		
		Add Del	ete						
		Web Site	Filtering						
		Webs	ite	13.89			Time		
		Add Del	ete						

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Finding the MAC Address of a Computer

Use the operating system of your computer to find its MAC address, as follows:

Windows: from the Start menu, find and select the **Control Panel**. Double-click **Network Connections** (Windows XP), or **Network & Sharing Center** (Windows Vista or Windows 7). Then double-click either "Wireless Network Connection" for a wireless connection, or "Local Area Connection" for an Ethernet connection. Next click the **Details** button (Windows Vista or Windows 7), or click the Support tab and then the **Details** button (Windows XP). The "Physical Address" line shows the MAC address.

MacOS X: open System Preferences and click the Network icon. To find the Ethernet MAC address, select **Built-in Ethernet** from the Show drop-down, then click the Ethernet tab. The "Ethernet ID" field shows the MAC address. To find the wireless MAC address, select **Air-port** from the Show drop-down, then click the Airport tab. The "Airport ID" field shows the MAC address.

Linux: open a shell window and type **/sbin/ifconfig** (and press Enter). The wireless interface is eth1 (unless there is no Ethernet adapter, in which case the interface is eth0).

4 Configure any or all of the following parental controls:

Trusted MAC Addresses:

Enter the MAC addresses of any "trusted" computers on the network and click the **Apply** button. You can add two trusted computers. Once added, these trusted computers will not be affected by the parental control settings. For example, you may want the computers of the father and mother to be trusted, while the childrens' computers have parental controls in effect.

Note: Refer to the "Finding the MAC Address of a Computer" sidebar for information on determining the MAC address of your computer.

Keyword and Web Site Filtering:

You can add a list of keywords and web sites that you want to block. To add a keyword or web site to the list, click the respective **Add** button. To delete a keyword or web site from the list, first click its check box and then click the **Delete** button.

Ado	d Keyword Filter	Add Web Site Filter			
AddReywordFilter	*	AddWebSiteFilter	ж		
Keyword	2	Web Site	3		
Day	ALL WEEK Sun 👻 until Sun 💌 💈	Day	Sun 👻 until Sun 😴 3		
Time	☐ ALL DAY	Time	□ ALL DAY 00:00 ♥ until 00:00 ♥ 3		
	Cancel AddKeywordFilter		Cancel AddWeb5iteFilter		

Adding a Keyword or Web Site Filter

- a) Enter the keyword in the Keyword field or web site URL address in the Web Site field.
- **b)** Set the start day and end day for the blocked access. (Sun until Sun indicates all week, or just click the All Week checkbox.)
- c) Set the start time and end time during the specified days (24-hour clock). (0:00 until 0:00 indicates all day, or just click the All Day checkbox.)
- d) Click the Add Keyword Filter or Add Web Site Filter button respectively. Then click the Apply button.

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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 Gateway.

Requirements

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

- Computer with:
 - one of: Windows 2000, Windows XP, Windows Vista, Windows 7, or MacOS $\rm X$
 - 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.

- <u>TCP/IP Configuration for Windows 2000</u>
- TCP/IP Configuration for Windows XP
- <u>TCP/IP Configuration for Windows Vista</u>
- TCP/IP Configuration for Windows 7
- <u>TCP/IP Configuration for MacOS X</u>

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary
			TCP/	IP Configurat	ion for W	/indows 2000	
			Follow t ing syst		re the Ethern	et interface on a Windo	ows 2000 operat-
			Note:	Dialog boxes show shown in this proc	,	omputer may differ sli	ghtly from those
				rom the computer, se ections > Local Ar		Settings > Network a on.	nd Dial-up Con-
				n the Local Area Conr ng on it one time, the		erties window, highlight operties .	TCP/IP by click-
			S	, ,	Ethernet card	han one Ethernet card, in the Connect using:	
				Connection 2 Properties General Connect using: Image: Stream of the stream of t	Configure m: work: Properties		

ок |

Cancel

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary

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

ternet F	Protocol (TCP/IP) Pro	onerties	
General			
this cap	i n get IP settings assigne ability. Otherwise, you n ropriate IP settings.	d automatically if yo eed to ask your net	ur network supports work administrator fo
• 0	btain an IP address auto	matically	
-CU	se the following IP addre	800:	
IP as	id/eas		
Subr	et mask:		
Unta	of gateway.	-	
• 0	btain DNS server addres	s automatically	
CU	se the following DNS se	rver addresses:	
P/ete	ered DNS werven		
	nate DNS server.		

- 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.

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troublesh	ooting	Glossary
			TCP/I	P Configura	tion for Wi	indows)	KP	
			Follow the system.	ese steps to config	ure the Etherne	t interface or	n a Window	s XP operating
			TCP/IPv	6 Note: This provider requires Windows XP syst XP for installation same configurat step.	or enabled by c TCP/IPv6 you r em. Refer to M n instructions. (lefault in Wi must first ins icrosoft supp Once installe	indows XP. stall and en port materia d and enab	If your cable able it on your ls on Windows led, follow this
			Note:	Dialog boxes sho shown in this pro		mputer may	differ sligh	tly from those
				om the computer, ck Network Conr				el and double-
				e Network Connec ciated network add		plays a list o	f LAN conne	ections and as-
			F	Network Connections ile Edit View Favorites	'ools Advanced Help			
			8	🕃 Back 🔹 📄 🇊	Search 😥 Folders	N N N	9 💷	💌 🔿 Go
				Idress 💽 Network Connections Jame	Туре	Status De	evice Name	
			10.5	LAN or High-Speed Internet				1
			2	Wireless Network Connection 2 Local Area Connection 4 Local Area Connection 2 1394 Connection 2	LAN or High-Speed Internet LAN or High-Speed Internet LAN or High-Speed Internet LAN or High-Speed Internet	Disabled Cise Connected Inte	el(R) WiFi Link 5300 A co Systems VPN Adap el(R) 82567LM Gigabi 94 Net Adapter #2	
			Int	el(R) 82567LM Gigabit Network Co	nnection			

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary

2 Double-click the local area connection to be used for your device's network connection.

The Local Area Connection Status widow displays.



- 3 Click Properties.
- **4** Select **TCP/IP** by clicking it one time. Then click **Properties**.

onne	ct usina:			
	ARRIS TOUCHS	TONE DEVICE	-	
iis co	nnection uses th	e following item	s:	Configure
	Client for Micro		wareft his	hundes
	QoS Packet Si Internet Protoc	cheduler ol (TCP/IP)	JUSUK NG	
	QoS Packet Si Internet Protoc	cheduler		Properties
Desc Vite	QoS Packet Si Internet Protoc	cheduler of (TCP/IP) []rampiese Protocol/Intern otocol that prov	et Protoco ides comr	Properties

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary

5 Click the **General** tab. Then click **Obtain an IP address automatically** and click **OK**.

ieneral	Alternate Configuration	
this cap		d automatically if your network supports ed to ask your network administrator for
00	btain an IP address autor	natically
OU	se the following IP addres	8
IP a	Idre st	
Sub	internet.	
Dela	of galaxian	
00	ptain DNS server address	automatically
OU	se the following DNS serv	ver addresses:
Bost	uned ONS conver	
eller	Hare DME server	
		Adyanced
		OK Cancel

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

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary

TCP/IP Configuration for Windows Vista

Follow these steps to configure the Ethernet interface on a Windows Vista operating system

1 Open the Vista Control Panel.



2 Double-click **Network and Sharing Center** to display the Network and Sharing Center window.



Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary

3 Click **Manage network connections**. If prompted for a connection, choose **Local Area Connection**.

The Network Connections window displays.



4 Double-click the **Local Area Connection** to open the Properties window:

Note: If Windows requests permission to continue, click **Continue**.

Local Area Connection Propertie	es 🗾 📉	🚇 Local Area	Connection Properties	X		
letworking Sharing		Networking	Sharing			
Connect using:		Connect us	ing:			
Realtek RTL8101E Family PC	CI-E Fast Ethernet NIC (NDIS	🔮 Real	Realtek RTL8101E Family PCI-E Fast Ethemet NIC (NDIS			
This connection uses the following it	Configure	This conne	ction uses the following items:	Configure		
Client for Microsoft Network Sonartec Network Securit Sonartec Network Scheduler Deterministic Network Exhibit Deterministic Network Exhibit Deterministic Network Exhibit Deterministic Network Exhibit Internet Protocol Version 6 Internet Protocol Version 6 Internet Protocol Version 6 Internet Protocol Version 6 Internet Protocol Version 6	y Intermediate Filter Driver ancer E Microsoft Networks (TCP/IPv6)		ent for Microsoft Networks martee: Network Security Interme eleministic Network Enhancer 55 Packet Scheduler e and Printer Sharing for Microsoft lemet Frotocol Version & (TCP/IP iemet Protocol Version 4 (TCP/IP)	t Networks		
Install Uninst	all Properties	Insta	Uninstall	Properties		
Description Transmission Control Protocol/Int wide area network protocol that p across diverse interconnected ne	provides communication		version 6. The latest version of the ides communication across divers s.			
				Cancel		

TCP/IPv4 Selected

TCP/IPv6 Selected



TCP/IPv4 Properties

TCP/IPv6 Properties

- 6 For either TCP/IPv4 or TCP/IPv6, select **Obtain an IP address automatically** and **Obtain DNS server address automatically**, unless instructed otherwise by your cable provider.
- 7 Click **OK** to accept the new settings and close the Properties window.
| Safety | Getting
Started | Battery
Installation | Installation | Ethernet
Configuration | Usage | Troubleshooting | Glossary |
|--------|--------------------|-------------------------|--------------|---------------------------|-------|-----------------|----------|
| | | | | | | | |

TCP/IP Configuration for Windows 7

Follow these steps to configure the Ethernet interface on a Windows 7 operating system.

1 Open the Windows 7 Control Panel.



2 Click Network and Internet.



Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary	

3 Click Network and Sharing Center.



4 Click Local Area Connection to open the Status window.



Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary

5 Click **Properties** to open the Properties window.



Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary
				lect Internet Proto nfigure TCP/IPv4.	ocol Version	4 (TCP/IPv4) and clie	ck Properties to
			to	col Version 6 (TCP	P/IPv6) and	s TCP/IP version 6, sele click Properties to cor <i>he version you selected</i>	figure TCP/IPv6.
					8)	net Protocol Version 6 (TCP/IPv6) Properties	? ∞
			General A	ternate Configuration	Ger	neral	
			this capab	et IP settings assigned automatically if your network s lity. Otherwise, you need to ask your network admin propriate IP settings.		ou can get IPv6 settings assigned automatically if your network therwise, you need to ask your network administrator for the a	supports this capability. ppropriate IPv6 settings.
			(a) Obta	n an IP address automatically		Obtain an IPv6 address automatically	
				he following IP address:		Use the following IPv6 address:	
			IP addr	53)		IPv6 address:	
			Subnet	maski		Subnet prefix length:	
			Default	gateway:		Default gateway:	
			e obta	n DNS server address automatically		Obtain DNS server address automatically	
				he following DNS server addresses:		Use the following DNS server addresses:	
				nd DNS serveri		Preferred DNS server:	
			Alterna	e DNS server:		Alternate DNS server:	
			T valid	ate settings upon exit	anced	Validate settings upon exit	Advanced
				ок 💦 [Cancel		OK Cancel

TCP/IPv4 Properties

TCP/IPv6 Properties

- 7 For either TCP/IPv4 or TCP/IPv6, select **Obtain an IP address automatically** and **Obtain DNS server address automatically**, unless instructed otherwise by your cable provider.
- 8 Click **OK** to accept the new settings and close the Properties window. Then click **Close** to back out of the remaining setup screens.

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary

TCP/IP Configuration for MacOS X

Follow these steps to configure the Ethernet interface on a MacOS X operating system.

1 Open System Preferences, either by choosing System Preferences from the Apple menu or by clicking the System Preferences icon in the dock.



Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary

2 Click the **Network** icon.



Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary

3 Choose **Automatic** from the Location drop-down menu, and **Built-in Eth-erne**t from the Show menu.

	Location:	Aut	omatic			
	Show:	Buil	t-in Ethernet	7		
	CP/IP PP	PoE	AppleTalk	Proxies	Ethernet	
Configure IP	v4: Using	DHCP			•	
IP Addre	ss:				Renew DH	CP Lease
Subnet Ma	sk:		DH	ICP Client IC		
Rout	er				(If required	0
DNS Serve	rs:					Option
Search Domai	ns:					Option
IPv6 Addre	55:					
	Confi	gure li	Pv6)			

4 Choose the TCP/IP tab, if necessary.

If you are using **TCP/IPv4**, go to **step 5**. If your cable provider requires **TCP/IPv6**, go to **step 8**.

- **5** Choose **Using DHCP** from the Configure IPv4 menu.
- 6 If necessary, click the **Renew DHCP Lease** button.
- 7 Close the System Properties application.

TCP/IPv4 configuration is completed.

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary

8 If you are using TCP/IPv6, click **Configure IPv6** near the bottom of the previous window.

Configure IPv6	Automatically	121
IPv6 Address		
Router		
		Cancel OK
IP Address:		Renew DHCP Lease
Subnet Mask:	DH	ICP Client ID:
Router:		(If required)
DNS Servers:		(Option
Search Domains:		(Option
IPv6 Address:		
C	Configure IPv6	

- **9** Choose **Automatically** from the Configure IPv6 drop-down menu and click **OK**.
- **10** Close the System Properties application.

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary
			Using	g the Tele	phony	Gateway	

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

- <u>Setting up Your Computer to Use the Telephony Gateway</u>
- Indicator Lights for the TG852
- Using the Reset Button

Setting up Your Computer to Use the Telephony Gateway

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 Started Installation Installation Configuration Usage Troubleshooting Glossary	Getting Battery Ethernet Safety Started Installation Installation Configuration Usage	Troubleshooting Glossary
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Patterns: Normal Operation (WAN and Battery)

The following table shows light patterns during normal operation.

Mode	Power	DS	US	Online	Battery
		Yellow ¹ = Connected to the Internet (high speed)	Yellow ¹ = Connected to the Internet (high speed)	On = Internet	On = Battery good or low
AC Power Good	On	Green ¹ = Connected to the In- ternet (ultra-high speed)	Green ¹ = Connected to the In- ternet (ultra-high speed)	available Off = Internet not available	Off = Battery missing Flash = Battery bad
		Flash = Not connected to the Internet	Flash = Not connected to the Internet		
No AC Power Battery Installed	Flash	Off	Off	Off	Off = Battery power Flash = Battery bad
No AC Power No Battery	Off	Off	Off Off Off		Off
Firmware Upgrade	On	Flash	Flash	On	(normal operation)

Note 1: Your cable company may configure the Telephony Gateway to always display the **DS** and **US** indicators in green regardless of the connection speed.

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary

Patterns: Startup Sequence

The following tables show the Telephony Gateway 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.

Telephony Start Up Sequence

Power,	Telep	hone	Dettem	Description						
DS, US, Online	1	2	Battery	Description						
Off	Off	Off	Off	No power to Modem						
Flash	Flash	Flash	Flash Power-on Self Test							
See "Cable Modem Start Up Sequence"										
On	Flash	Off	Off	Retrieving telephone net- work information						
On	Off	Flash	Off	Retrieving telephone line information						
On	Flash	Flash	Off	Activating telephone service						
	Normal Operation									

Note: The **DS** and **US** indicators flash yellow during startup, and turn green if the Telephony Gateway establishes an ultra-high speed connection.

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary

Cable Modem Start Up Sequence

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

Using the Reset Button

Use the **Reset** button, on the back of the Telephony Gateway, to reset the modem and perform initialization as if you power cycled the unit. You may need to reset the Telephony Gateway if you are having problems connecting to the Internet. Using this button will be rare.

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.

The diagram on the left shows the location of the reset button.

Resetting the Router to Factory Defaults

To reset the router to factory defaults, press and hold the **Reset** button on the back of the Telephony Gateway for more than fifteen seconds. This restores the wireless setup configuration and router configuration parameters to the factory defaults. You may need to do this if a misconfiguration has locked out all access.





Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary	
			Bootin	g from Batte	ry			
	The TG852 supports a "Boot from Battery" feature that allows the Telephony Gat way to begin service without AC power.							
			To start th	ne TG852 from its ba	attery, follow	these steps:		
			1 If a	a battery is already	installed in th	e Telephony Gateway,	remove it.	

- **2** Re-insert the battery into the Telephony Gateway (see <u>Battery Installation</u> <u>and Removal</u> for details).
- **3** Press the **Reset** button; the Power light should turn on immediately.

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary			
			Trou	bleshootin	g					
			The Tele	phony Gateway is	plugged in,	but the Power light	is off.			
				neck all power conne ds?	ections. Is th	e power cord plugged	in firmly at both			
				you plugged the po vitched on.	wer cord into	o a power strip, make	sure the strip is			
			Av	oid using an outlet o	controlled by	a wall switch, if possibl	e.			
			Fir	nally, check the fuse	or circuit bre	aker panel.				
			I'm not g	getting on the Inte	ernet (all co	nnections).				
		It may take over 30 minutes to establish a connection the first tir power up your Telephony Gateway, especially when many people are Always leave your Telephony Gateway plugged into AC power and cor to the cable system.								
			Ch	eck the front panel	lights:					
				• The Power and	d Online light	ts should be on.				
				• If the Power li company for as		r more than 30 minute	s, call your cable			
			Check your cable connections. Connectors should be tight. The <u>coax</u> should not be pinched, kinked, or bent sharply—any of these can can break or short in the cable (you may have to replace the cable). If you one or more splitters between the Telephony Gateway and CATV outle move the splitters and connect the Telephony Gateway directly to the let.							
			Pr	oceed to the Etherne	et or wireless	solutions (next page)	f necessary.			

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary		
			I'm not g	getting on the Inte	ernet. (Ether	met)			
			If	you are using a hub	, is the hub tu	urned on?			
				ct connection to a c		net cable? Use the sup a cross-over cable for			
			Pre	ess the Reset butto	n on the back	of the Telephony Gate	way.		
				5		access to the Telephony Resetting the Router to			
			I'm not g	getting on the Inte	ernet. (Wire	less)			
				eck the indicator light he indicator light he indicator light he indicator light he in the indicator light here	jhts (see <u>Usir</u>	ng the Telephony Gate	<u>way</u>) — the WiFi		
			Does your connection utility discover your wireless LAN? If you turn "Broadcast SSID" you need to manually enter the name of your wireles in the connection utility.						
						P" or "disabled". If you des as soon as you fin			
				5		access to the Telephony Resetting the Router to			
			My wirel	ess Internet conn	ection stops	working sometimes			
			°re	emote" telephones a	nd microwave	ce — two common sou e ovens. If you cannot r channel or setting Prot	emove the inter-		
			I can get	t on the Internet,	but everythi	ng is slow.			
			ble mi	e servicing all the re	quests. If oth	ry popular, that site ma er sites download quick peak hours may also a	ly, wait for a few		
				her communication ns, may slow down		, or interference with on.	wireless connec-		

Safety	Getting Started	Battery Installation	Installation	Co	Ethernet onfiguration	Usage	Troubleshooting	Glossary
			I don't h	ave	dial tone whe	n I pick up n	ny phone, why?	
			tel	lepho nfigu	ne service must	: have been p ephony Gate	e functional on the Tele ourchased from the serv way. The following step m.	vice provider and
				1	Is the Power LE	D lit?		
					,	k to make sui et has power	re the Telephony Gatev	vay is plugged in
					• If the LED is	lit, go to the	e next step.	
				2	Is the Online LE	D lit?		
					the wall. En	sure they are	nnection at the Telepho e connected and tight. e, contact your service	If they are and
			 If the Online LED is lit, go to the next step. 					
				3	Is the Telephon	e (Tele 1 or T	el 2) LED lit?	
					 If not, phon your service 		s not been set up on t	hat line. Contact
							a phone off hook sond hang it up.	mewhere in the
					• If it is lit, go	to the next s	step.	
				4	Is the phone plu	ugged directly	y into the Telephony Ga	ateway?
						ateway label	lugged into the port or ed "Telephone 1/2" for	
					 If so, try a c ing phone. 	lifferent phor	e. Make sure the new	phone is a work-
					try a differe	nt phone cab	used and you still don le. If a new phone and service provider.	

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary
				5 Is the Telephon	y Gateway pl	ugged into a wall outlet	t?

• If so, unplug the RJ-11 connector at the back of the Telephony Gateway and plug in a known working phone. If you now have dial tone, the problem is with the house wiring. Contact your cable company 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	Ethernet Configuration	Usage	Troubleshooting	Glossary
			Glos	sary			
			The follow	ving is a list of comm	non cable and	networking terms.	
						example, a 1.0Ah batte ne hour.	ery can nominall
			A		,	r Fast Ethernet (100Ba always look for Categor	,
			A · ca			elevision and Telephon from any electronics r	
				istomer Premise Equ lephony Gateway; ty	•	s the equipment that is pputer or hub.	plugged in to th
			Cross-ov	ver			
			Ar	e Ethernet cable used gether. Also, some E	thernet hubs	wo hubs (or a hub and may have built-in cros eed for a cross-over ca	s-over on one o
			DHCP				
			ad vic	dress and location of	of services (sinetwork. DHC	ol. An IP protocol used uch as DNS and TFTP) IP allows the cable com re for you.	needed by a de
			DNS				
			Do	omain Name Service	e (Server). A	n IP service that asso	ociates a doma

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

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary				
				an HFC network, the		m the head-end to the service to this as the forward					
						Specification. The inter s equipment on an HFC					
				nbedded Multimedia ch a cable modem.	Terminal Ad	apter. An MTA device t	hat is integrated				
			Ethernet A standard method of connecting two or more computers into a Network (LAN).								
				EuroDOCSIS The European version of DOCSIS.							
			Event An informational message used for monitoring network status.								
			Th F-c	F-connector The type of connector used on coax cable. There are two common types of F-connector, slip-on and screw-on. Use coax with screw-on connectors for connecting your Telephony Gateway.							
						: prevents unauthorizec e TG852 provides a bui					
					outer, that c	onnects devices on a gi	ven IP subnet to				

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary	
			Header	nd				
			C	The "central office" in an HFC network. The headend houses both video data equipment. In larger cable networks, a "master" headend often fe several "remote" headends to provide distributed services.				
			НТТР					
			ŀ	HyperText Transfer Pro	tocol.			
			Hub					
				A box with several Eth point of contact for all			ovide a common	
			IP addı	ress				
				A number assigned to ify your computer to c			ny, used to iden-	
			ISDN					
				integrated Services Dig vides communication s				
			LAN					
				Local Area Network. A such as a building) to			a single location	
			LED					
				ight Emitting Diode. A s passed through it.	semi-conduc	tor diode that emits light	ght when current	
			MAC ad	ldress				
			c a	A number that uniquel cable company uses y access to the Internet. of your Telephony Gate	our Telephon The MAC add	y Gateway's MAC addı	ress to authorize	
			Protoco	bl				
				A set of rules and form network entities at a g		rmines the communic	ation behavior of	

Safety	Getting Started	Battery Installation	Installation	Ethernet Configuration	Usage	Troubleshooting	Glossary
			Proxy				
			sit bu pr pa	te) and a client (you Irden from the serve oxy that keeps copies	r browser), r. For exampl s of popular w ng them dired	between a server (for providing a way to reli e, your cable company yeb pages; the proxy ca ctly from the web site, r gestion.	eve some of t may have a w n send you tho
			RF				
				bbreviation for Radio ble" and the connect		Some literature refers onnectors."	s to coax as "
			RJ-11				
				standard 2-conducto a for connecting tele		nnector, commonly use	d in North Am
			RJ-45				
						onnector, commonly u e a wide RJ-11 (telepho	
			Splitter				
			m th	ay need a splitter if	you have a T for your Tele	ectors: one input and t V already connected to phony Gateway. You co ost discount stores.	the cable ou
			SSID				
				ervice Set IDentifier niquely identifies a w		text (up to 32 chara	icters long) t
			Switche	d outlet			
			int		oid plugging	on and off using a wa your computer or Tel ptions.	
			TCP/IP				
			Tra			net Protocol. The protocol more connected netwo	

Safety	Getting Started	Battery Installation	Installation	Wireless Configuration	Ethernet Configuration	Usage	Troubleshooting	Glossary		
			т	OMA						
				Time Division Multiple Access. A method used by DOCSIS-compliant cable modems for sending upstream data with minimal interference.						
	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.					
			w	ΈP						
				Wired Equi a wireless		common sta	indard for encrypting	data sent over		
			w	ΈΑ						
				Wi-fi Prote	cted Access, a sta	ndard for e	encrypting data sent	over a wireless		

LAN. WPA offers improved security over WEP.

Touchstone®

TG852 Telephony Gateway User's Guide



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ARSVD01310 Release 8 Standard 1.4 January 2011