



Cable Modem Router

Model Number: U10C012



User's Guide

Rev. 1.0

Firmware 5.20.1105

Oct 29th, 2003

Contents

1. BEFORE YOU BEGIN	4
Understand the Cable Modem's Features	4
Contact Your Local Cable Operator	4
Prepare Your Area for Cable Modem Installation	5
Gather Supplied and Required Items	5
2. INSTALLING THE CABLE MODEM USING THE USB PORT	6
Installing the Hardware	9
Installing the Software Drivers.....	9
Installing the Software Drivers in Windows 98 SE Operating System	9
Installing the Software Drivers in Windows Me Operating System.....	15
Installing the Software Drivers in Windows 2000 Operating System	18
Installing the Software Drivers in Windows XP Operating System	22
Troubleshooting the USB Installation	24
Uninstalling the USB Driver	25
3. INSTALLING THE MODEM USING THE ETHERNET PORT	26
Installing the Hardware	26
Troubleshooting the Ethernet Installation.....	27
4. CABLE MODEM ROUTER LEDS AND CONNECTORS.....	29
LEDs on the Front of the Modem.....	29
Connectors on the Back of the Modem.....	30
5. WEB USER INTERFACE	31
Accessing the Web User Interface	31
Web User Interface Home Page.....	33

Cable Modem Information	33
Cable Modem Status.....	34
Downstream	35
Upstream	36
Upstream Burst.....	37
Operation Parameters.....	38
Event Log	39
FIREWALL.....	40
<i>TOD Filter</i>	<i>40</i>
<i>Application Filters</i>	<i>41</i>
<i>Event Log</i>	<i>43</i>
Parental Control	44
<i>Setup</i>	<i>44</i>
<i>Violation Log</i>	<i>45</i>
Diagnostics.....	46
<i>Ping.....</i>	<i>46</i>
<i>Client List</i>	<i>47</i>
<i>Security.....</i>	<i>48</i>

1. Before You Begin

Your new cable modem provides high-speed access to the Internet by an active Internet Connection through your cable service provider. This user guide describes how to set up and use the cable modem. Before installing the cable modem, you should read this user guide to ensure proper cable modem operation.

Understand the Cable Modem's Features

Your cable modem has the following features to help you access and use the Internet:

- Two-way design allows the cable modem to send and receive data over the cable television network.
- Cable bandwidth allows data rates of up to 38 megabits per second (Mbps)*, which is faster than analog modems, integrated services digital network (ISDN), or asymmetric digital subscriber line (ADSL).
- Using your cable line means that the cable modem is always on, always connected, and does not tie up your phone line.
- Plug-and-play operation through universal serial bus (USB) ensures easy setup and installation.
- Data Over Cable Service Interface Specification (DOCSIS™) compliance ensures interoperability with DOCSIS compliant cable operators.

**NOTE: Speeds may vary based on the following factors:*

- *Computer equipment including available RAM and processor speed*
- *Software applications utilizing your computer's resources*
- *Network traffic depending on the time of day*
- *Limitations set by your Cable Service Provider*

Contact Your Local Cable Operator

Before installing your new cable modem, you must contact your local cable service provider to activate your Internet account. Be sure to have the cable modem's MAC address available, which can be found on the underside of the cable modem.

Prepare Your Area for Cable Modem Installation

Before installing your cable modem, you should first prepare your area. To do this:

1. Locate your cable outlet and ensure that it is located within proper distance of your cable modem and computer. Be sure not to bend the cable as this may strain the connector and cause damage.
2. Ensure that the temperature in the room where the cable modem will be operating is between 0 and 40°C (32 and 104°F)

Gather Supplied and Required Items

You will use a variety of items to install your cable modem. Some of the items are supplied with your cable modem.

Supplied

Verify that these items were included in the cable modem's package:

- cable modem
- Power adapter
- USB cable (1.5m)
- Ethernet cable (1.8m)
- CD containing USB drivers
- This user guide

Not Supplied

Verify that these items are available before beginning the installation:

- If using the cable modem's USB port:
 - A PC running Windows 98® Second Edition (SE), Windows Me, Windows 2000, or Windows XP. The cable modem's USB setup does not support the Macintosh® operating system, Windows 98 First Edition, and NT.
 - Windows 98 SE, Windows Me, Windows 2000, or Windows XP CD or diskettes.
 - An active USB port on your PC.
- If using the cable modem's Ethernet port:
 - A PC running Windows 95 (or later) operating system or a Macintosh computer running system 7.6 (or later) operating system
 - An active Ethernet port on your PC or Macintosh

Be sure to follow the instructions provided for the port that you want to use.

Using the USB port allows you to install the cable modem more quickly and easily than using the Ethernet port, because you do not have to install and configure a network interface card (NIC).

USB, however, only enables you to connect one computer to the cable modem. Using the Ethernet port allows you connect multiple computers to a cable modem through the use of additional equipment that is not included. Please contact your cable service provider for more information on using multiple computers.

2. Installing the Cable Modem Using the USB Port

This chapter explains the process for installing your cable modem using the USB port. First, you will install the hardware (cable modem, USB cable, coax cable, and power adapter). You will then install the cable modem drivers and verify that the modem is functioning properly.

NOTE: The cable modem's USB setup does not support the Macintosh® operating system, Windows 95 & NT.

Using the USB port allows you to install the cable modem more quickly and easily than using the Ethernet port, because you do not have to install and configure a network interface card (NIC).

USB, however, only enables you to connect one computer to the cable modem. Using the Ethernet port allows to you connect multiple computers to a cable modem using additional equipment which is not included. Please contact your cable service provider for more information on using multiple computers.

Installing the Software Drivers Before Hardware Connection

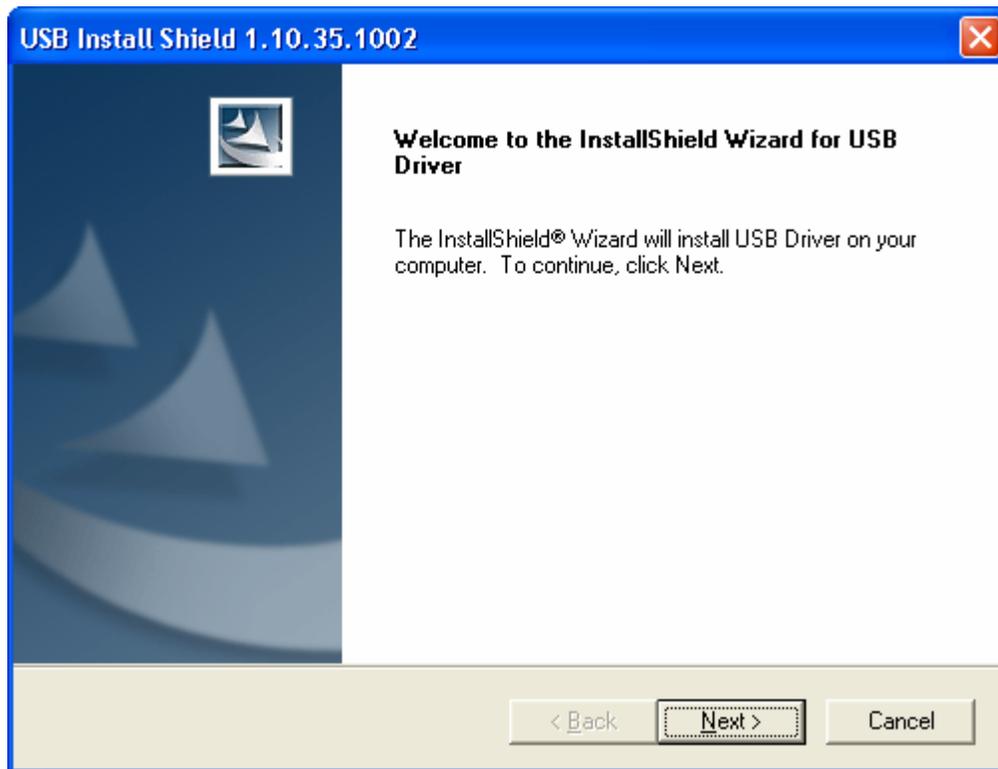
CAUTION: You should run the “Setup.exe” program first before you connect USB cable to PC.

To install the cable modem software drivers using the Windows operating system:

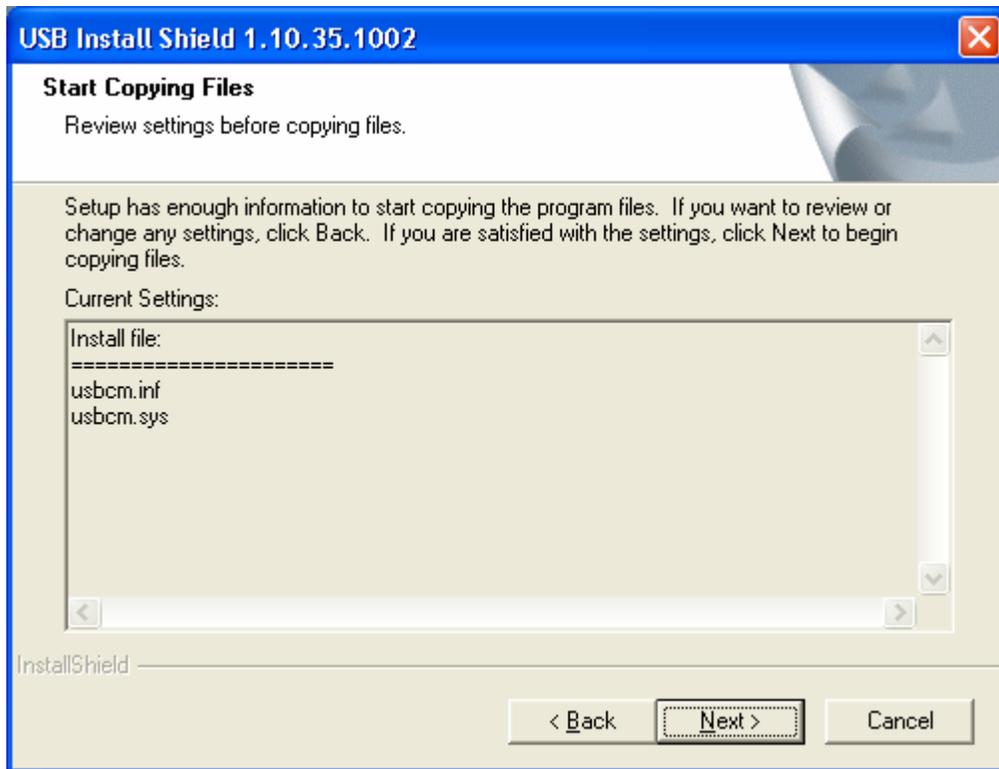
1. Double click the “Setup.exe” program in the CD.
2. Then the “Choose Setup Language” screen appears. You can choose the language you need and click “OK”.



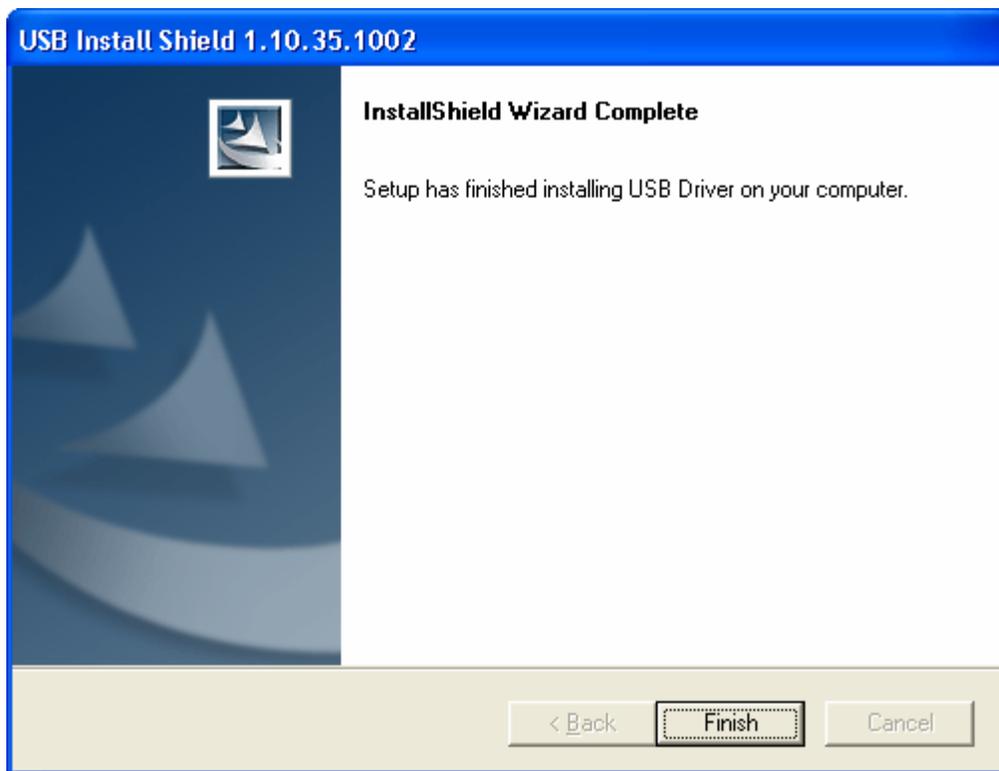
3. You will see the following Welcome screen.



4. Click "Next>". You will see the following Start screen.



5. Click "Next>". You will see the following 'Complete' screen.



6. Click "Finish". You will see below screen, and then select 'Yes.' Now you can connect the

USB cable to the PC by following next section instructions.

Installing the Hardware

This section explains how to connect the cable modem to the computer, wall outlet, and electrical outlet.

To install the hardware:

1. Power off the computer
2. Connect one end of the coaxial cable to the cable modem's cable connector. Connect the other end of the coaxial cable to the cable wall outlet. Be sure not to bend or over tighten the cables as this may strain the connector and cause damage. If you plan to connect the cable modem and television to the same wall outlet, you must use a cable line splitter (not included).
3. Connect one end of the USB cable to the cable modem's USB port and the other end of the cable to the USB port on the PC.
4. Plug the cable modem's power adapter into the cable modem's power jack and into a wall outlet or surge protector.
5. You are now ready to install the software drivers.

Installing the Software Drivers

This section explains how to install the software drivers that your PC requires for the cable modem to operate.

Installing the Software Drivers in Windows 98 SE Operating System

CAUTION: You must install the drivers located on the CD that ships with your cable modem. If you use the default Windows-supplied software drivers, you will not be able to properly install the cable modem.

To install the cable modem software drivers using the Windows 98 operating system:

1. Power on your PC. After your computer boots, Windows detects the cable modem. The Found New Hardware screen appears, followed by the Add New Hardware Wizard screen.



2. Insert the CD into the PC's CD-ROM and click *Next*. You will see the following screen.



3. Select *Search for the best driver for your device (Recommended)*. Then select *Next*. You will see the following screen.



4. Check the *CD-ROM drive* check box and verify that the CD is in the CD-ROM drive. Click *Next* to have Windows search for the necessary driver files. You will see the following:



5. Select *the updated driver (Recommended) Ambit USB Cable Modem* and click next. You will see the following screen.

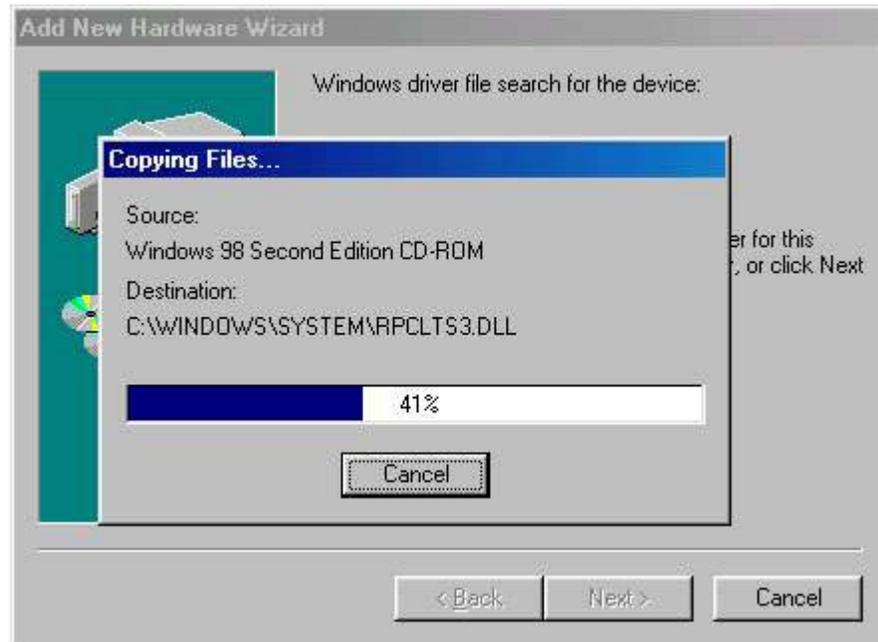
CAUTION: You must verify that **Ambit USB Cable Modem** appears on the screen. If **USB Composite Device** appears, you must click *Back* twice and specify the correct location of the driver files. **DO NOT** proceed if **USB Composite Device** is displayed in the above window. Contact your cable provider for further assistance.



6. Click *Next*. The computer automatically installs the necessary driver files. You may see the following screen



7. If the above screen appears, you must insert the Windows 98 CD so that Windows can copy the remaining files.



8. After files copying is done, you will see the following screen:



9. Click *Finish* to complete the installation. You will see the following screen.



10. Choose *Yes* to restart your computer.

11. After the computer is rebooted, verify that the USB LED is lit on the front of you cable modem. If not, refer to the troubleshooting section later in this chapter.

Installing the Software Drivers in Windows Me Operating System

To install the cable modem software drivers using the Windows Me operating system:

1. Power on your PC. After your computer boots, Windows detects the cable modem. The Found New Hardware screen appears, followed by the Found New Hardware Wizard screen.



2. Insert the CD into the PC's CD-ROM and click *Next*. You will see the following screen.



3. Select *Automatic search for a better driver (Recommended)* and click (*Next*). The computer automatically copies the necessary driver files from the CD. You will see the following screen.

S



4. Click *Next*. The computer automatically installs the necessary driver files.



5. Click *Finish* after the computer has copied the necessary files. You will see the following screen.



6. Click *Yes* to restart the computer

Installing the Software Drivers in Windows 2000 Operating System

To install the cable modem software drivers using the Windows 2000 operating system:

1. Power on your PC. After your computer boots, Windows detects the cable modem. The Found New Hardware screen appears, followed by the Found New Hardware Wizard screen.



2. Insert the CD into the PC's CD-ROM Drive and click *Next*. You will see the following screen.



3. Select *Search for a suitable driver for my device (recommended)*. Then select *Next*. You will see the following screen



4. Check the *CD-ROM drive* check box and verify that the CD is in the CD-ROM drive. Click

Next to have Windows locate the necessary driver files. You will see the following screen.



5. Click *Next* to install the driver files for the cable modem. You will see the following screen.



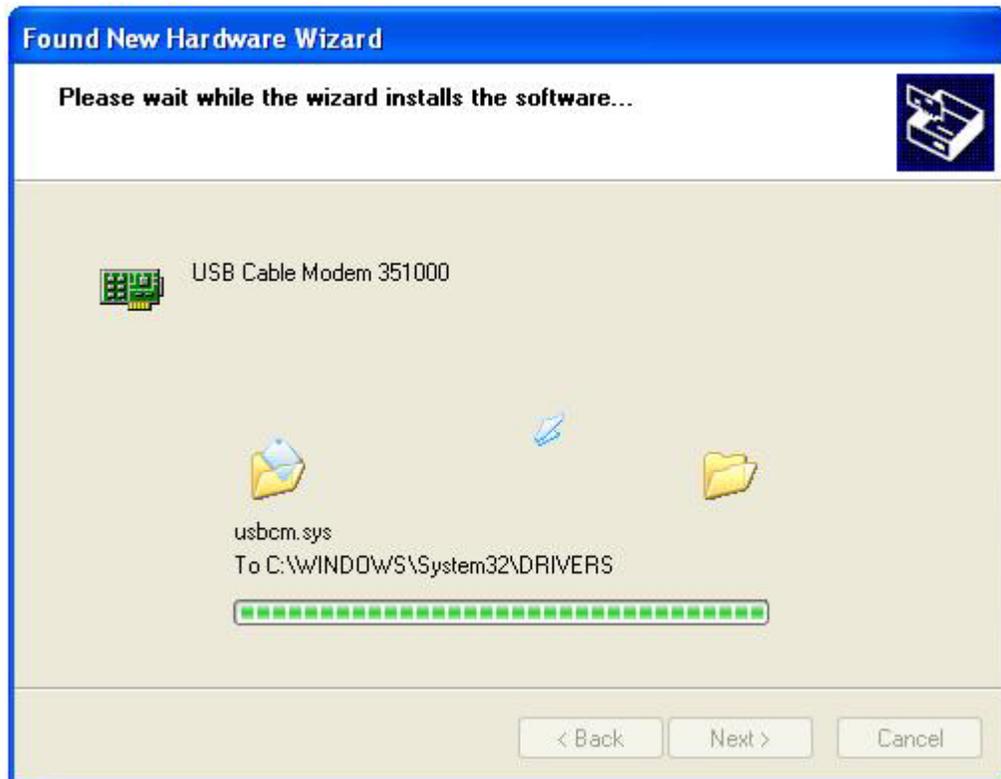
7. Click *Finish* to complete the installation.
8. After the installation is completed, verify that the USB LED is lit on the front of you cable modem. If not, refer to the troubleshooting section later in this chapter.

Installing the Software Drivers in Windows XP Operating System

1. Power on your PC. After your computer boots, Windows detects the cable modem. The Found New Hardware screen appears, followed by the Found New Hardware Wizard screen.



2. Choose *the software automatically (Recommended)*. Click *Next* to continue. You will see the following screen.



3. Click *Finish* to complete the installation.

Troubleshooting the USB Installation

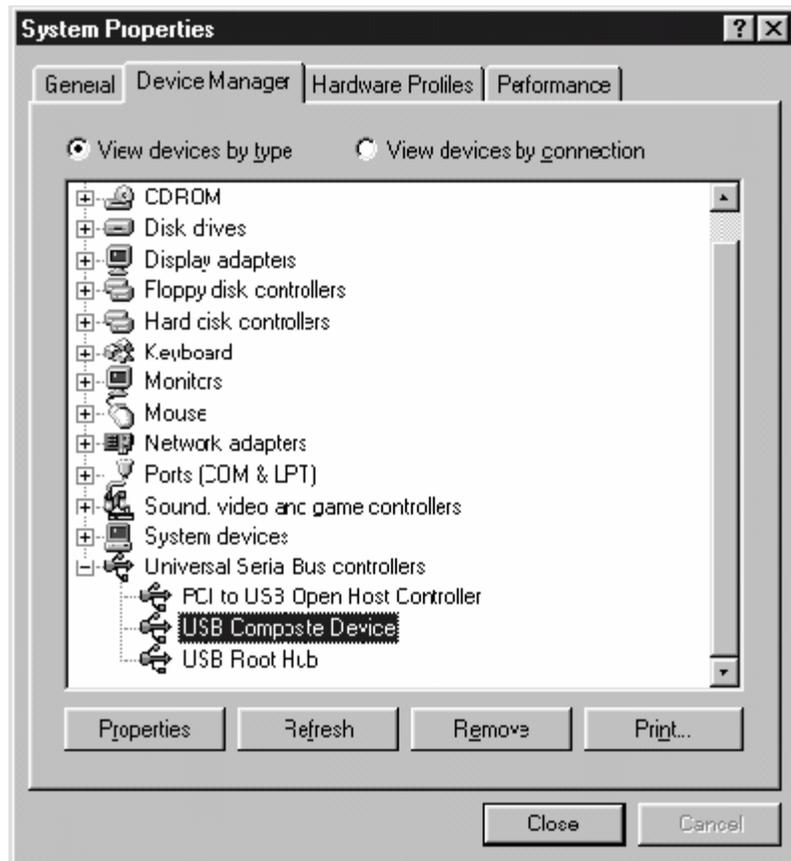
None of the LEDs is on when I power on the LAN Cable Modem.

Check the connection between the power adapter and the cable modem. Power off the LAN Cable Modem and wait for 5 Seconds and power on the modem again. If the problem still exists, you may have a hardware problem.

When attempting to install the USB driver in Windows 98 SE, I receive the following error message: Device not installed at this time. Driver not found.

This usually occurs when the wrong driver has been installed. To remove the wrong driver and install the correct driver:

1. Right-click on the *My Computer* icon on your desktop and choose *Properties*.
2. Click the *Device Manager* tab
3. Click the plus sign next to *Universal Serial Bus controllers* to view the list of installed USB



device drivers

4. Select *USB Composite Device* and click *Remove*
5. Click *Refresh*

The Add New Hardware Wizard window appears, displaying the device name *USB Composite Device*. Refer to the proper operating system instructions in this chapter for information on reinstalling the driver properly.

All of the LEDs on the front of my modem look correct, but I cannot access the Internet.

- If the POWER, USB, SYNC, and READY are solidly lit, the cable modem is working properly. Use the following procedures to verify connectivity between the PC and the cable modem:
 - Launch Your PC's Internet Browser (e.g., Netscape, IE)
 - Enter <http://192.168.100.1> into your browser. This URL connects you directly to the web server within your cable modem. A successful connection indicates that the PC is able to communicate with the cable modem. The next step is to enter a public URL to ensure connectivity between the cable modem and your cable service provider. If this fails, please contact your cable service provider for further assistance.
- Try restarting the computer so that it could re-establish a connection with the cable modem.
- Power cycle the cable modem by removing the power adapter from the electrical outlet and plugging it back in. Wait several minutes for the cable modem to re-establish communications with your cable service provider.
- Remove any other USB devices from your computer and connect the cable modem's USB cable directly to the USB port on your computer.
- If you are using a cable splitter, try removing the splitter and connect the cable modem directly to the cable wall outlet. Wait several minutes for the cable modem to re-establish communications with your cable service provider.
- Your USB or coaxial cable may be damaged. Try using another cable.
- If none of these suggestions work, contact your cable service provider for further assistance.

Uninstalling the USB Driver

1. Insert the supplied CD into your CD-ROM drive
2. Click on the *My Computer* icon on your desktop. Then click on the icon that belongs to your CD-ROM Drive.
3. Locate the file called "Uninstall" and click on the file. This program will remove all the

necessary files from you computer.

3. Installing the Modem Using the Ethernet Port

This chapter explains the process for installing your cable modem using the Ethernet port.

See Chapter 2 “Installing the Cable Modem Using the USB Port” for instructions on installing the cable modem using the USB port.

You can use the cable modem’s Ethernet ports if you have:

- A PC running Windows 95 (or later) operating system or a Macintosh computer running system 7.6 (or later) operating system
- An active Ethernet port on your PC

Before you begin, verify that your Network Interface Card (NIC) has been installed and configured for use with your cable modem. The cable modem requires TCP/IP to be installed. Contact your cable service provider for assistance with installing and configuring TCP/IP. After installed the hardware, your computer can connect the cable modem directly by using Network Interface Card. Unlike USB installation, there is no needed for software installation for the Ethernet connection.

Installing the Hardware

This section explains how to connect the cable modem to the computer, wall cable outlet, and electrical outlet.

To install the hardware:

1. Power off the computer
2. Connect one end of the coaxial cable to the cable modem’s cable connector. Connect the other end of the coaxial cable to the cable wall outlet. Be sure not to bend or over tighten the cables as this may strain the connector and cause damage. If you plan to connect the cable modem and television to the same wall outlet, you must use a cable line splitter (not included).
3. Connect one end of the Ethernet cable to the cable modem’s Ethernet port and the other end of the cable to the Ethernet port on the PC or network interface card (NIC).
4. Plug the cable modem’s power adapter into the cable modem’s power jack and into a wall outlet or surge protector.
5. If the POWER, SYNC, and READY LEDs are solidly lit, the cable modem is working

properly.

Troubleshooting the Ethernet Installation

None of the LEDs are on when I power on the Cable Modem.

Check the connection between the power adapter and the cable modem. Power off the Cable Modem and wait for 5 seconds and power on the modem again. If the problem still exists, you may have a hardware problem.

The Ethernet 1/2/3/4 LED on my cable modem is not lit.

- Try restarting the computer so that it could re-establish a connection with the cable modem.
- Check for a resource conflict (Windows users only). To do this:
 - 1) Right-click on the *My Computer* icon on your desktop and choose *Properties*.
 - 2) Click the *Device Manager* tab and look for a yellow exclamation point or red X over the NIC in the *Network Adapters* field. If you see either one, you may have an IRQ conflict. Refer to the manufacturer's documentation or your cable service provider for further assistance.
- Verify that TCP/IP is the default protocol for your network interface card (NIC)
- Power cycle the cable modem by removing the power adapter from the electrical outlet and plugging it back in. Wait several minutes for the cable modem to re-establish communications with your cable service provider.
- Your Ethernet cable may be damaged. Try another cable.

All of the LEDs on the front of my modem look correct, but I cannot access the Internet.

- If the POWER, SYNC, READY and Ethernet 1/2/3/4 LEDs are solidly lit, the cable modem is working properly. Try restarting the computer so that it could re-establish a connection with the cable modem.
- Power cycle the cable modem by removing the power adapter from the electrical outlet and plugging it back in. Wait several minutes for the cable modem to re-establish communications with your cable service provider.
- If your PC is connected to a hub or gateway, try connecting the PC directly into the cable modem.

- If you are using a cable splitter, try removing the splitter and connect the cable modem directly to the cable wall outlet. Wait several minutes for the cable modem to re-establish communications with your cable service provider.
- Your Ethernet or coaxial cable may be damaged. Try using another cable.
- If none of these suggestions work, contact your cable service provider for further assistance.

4. Cable Modem Router LEDs and Connectors

This chapter describes the functions of the cable modem router's LEDs and connectors.

When the **pwr**, **sync**, and **ready** LEDs are lit, the cable modem router is working properly. The **usb** or **enet 1, 2, 3, 4** LEDs should also be lit depending on what port is being used.

The following provides an overview of the LED indicator lights on the front of the cable modem router and what the LEDs mean.

LEDs on the Front of the Modem

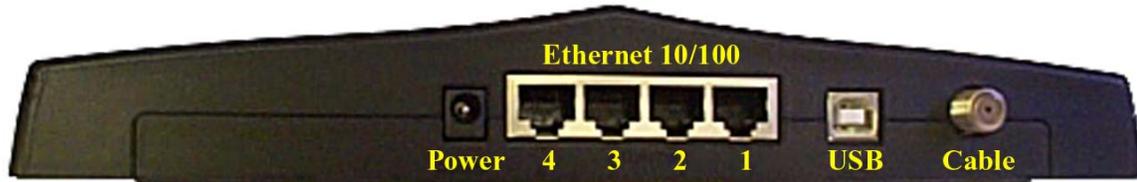


- **pwr**: Indicates that the cable modem has successfully completed internal power-on tests.
- **usb**: Indicates connectivity between the USB port on the cable modem and the PC's USB port.
- **sync**: Indicates the connection status between the cable modem and the cable network. The LED is lit when the cable modem has established a downstream channel with the cable service provider's Cable Modem Termination System (CMTS).
- **ready**: Indicates that the cable modem has completed the ranging/registration process and is ready to send/receive data.
- **Ethernet 1, 2, 3, 4**: Indicates connectivity between the Ethernet port on the cable modem router and the Ethernet port on a PC or Mac. This LED blinks when the cable modem router is transferring or receiving data over the Ethernet cable.

Installation problems with the cable modem are commonly due to the cable network and its topography. LEDs on the front panel of the cable modem reveal operational status and help you determine problem areas.

Connectors on the Back of the Modem

This list of connectors describes where to connect the cables and power adapter when installing the cable modem.

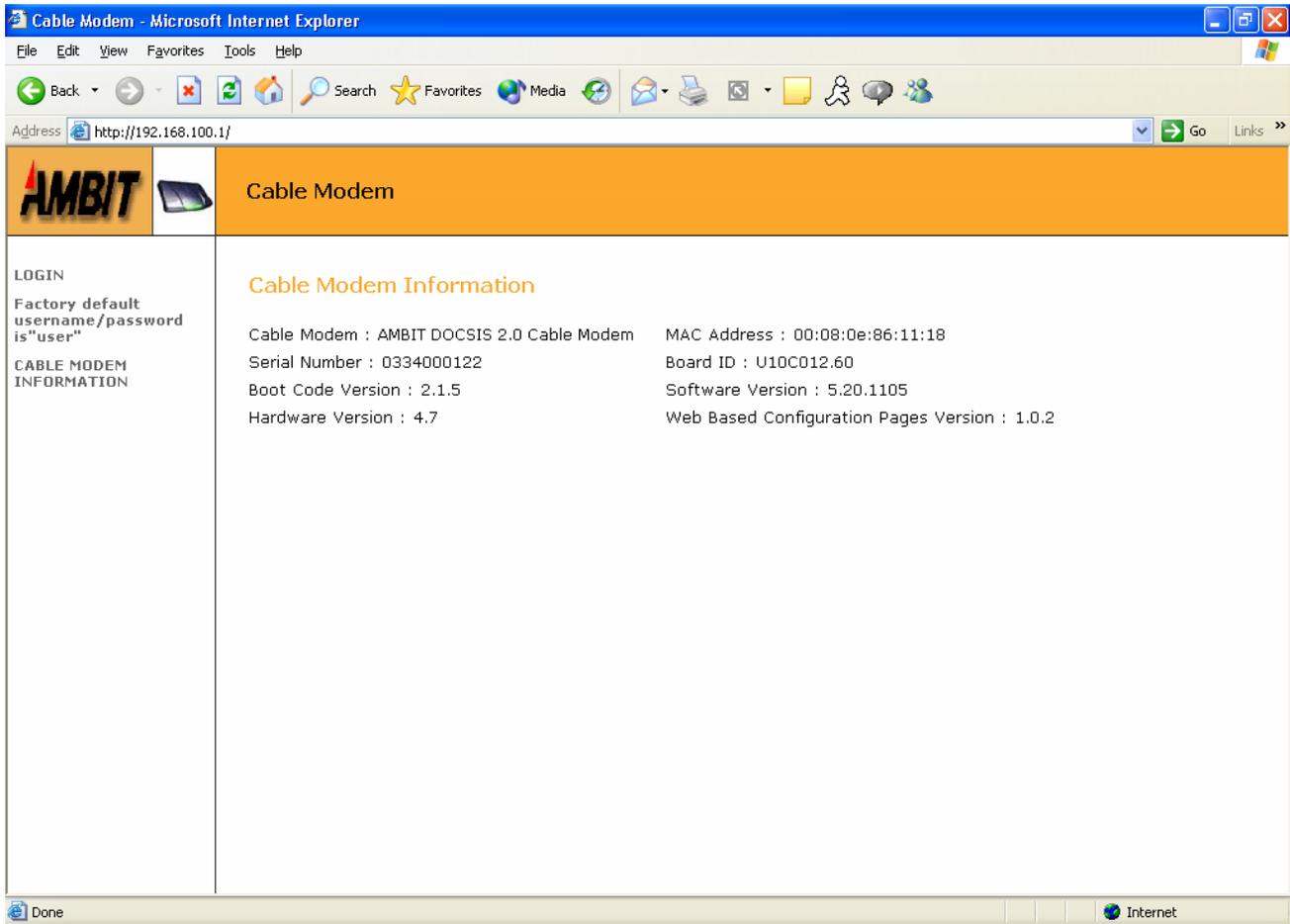


1. **Power:** This is where you plug the included power adapter. Remember to use only the power adapter that came with the cable modem.
2. **Ethernet 10/100 Port 1, 2, 3, 4:** This is where you plug the Ethernet cable. The other end connects to the Ethernet port on the PC.
3. **USB:** This is where you plug the included USB cable. The other end connects to the USB port on your PC.
4. **Cable:** This is where you connect the coaxial cable (not included) that leads to the cable splitter (not included) or the cable wall outlet.

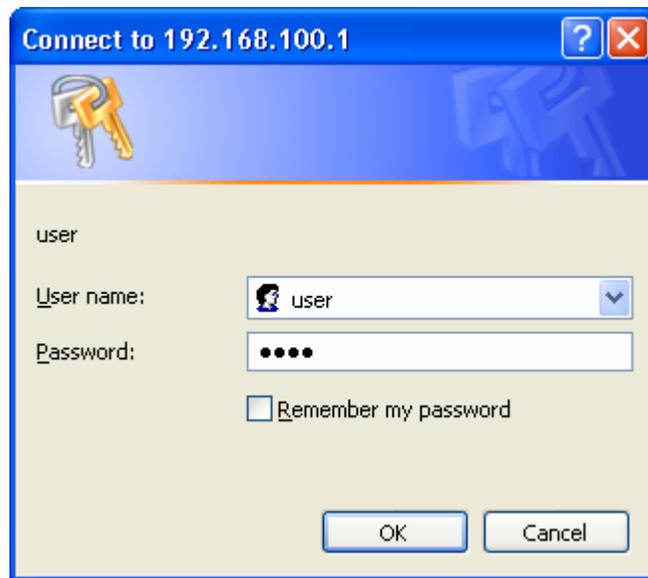
5. Web User Interface

Accessing the Web User Interface

1. The PC connected to the cable modem must support TCP/IP connection and dynamic DHCP IP address acquisition, and must have a web browser installed.
2. Open the web browser and set the URL location as: `http://192.168.100.1`



3. Click LOGIN. Enter user for User name and user for Password, and then click **OK**.



4. If the user enters an incorrect user name and/or password, the web user interface displays “401Unauthorized”.

Web User Interface Home Page

A main menu is shown at the top of the pages and the user can select different options to view cable modem information. They include:

Cable Modem Information

AMBIT Cable Modem

LOGOUT
CABLE MODEM INFORMATION

CABLE MODEM

- Information
- Status
- Downstream
- Upstream
- Upstream Burst
- Operation Config
- Event Log

FIREWALL
PARENTAL CONTROL
DIAGNOSTICS

Cable Modem Information

Cable Modem : AMBIT DOCSIS 2.0 Cable Modem MAC Address : 00:08:0e:86:11:18
Serial Number : 0334000122 Board ID : U10C012.60
Boot Code Version : 2.1.5 Software Version : 5.20.1105
Hardware Version : 4.7 Web Based Configuration Pages Version : 1.0.2

http://192.168.100.1/nonauth_P_info_out.htm Internet

Cable Modem Status

AMBIT Cable Modem

LOGOUT
CABLE MODEM INFORMATION

CABLE MODEM

- Information
- **Status**
- Downstream
- Upstream
- Upstream Burst
- Operation Config
- Event Log

FIREWALL
PARENTAL CONTROL
DIAGNOSTICS

Cable Modem Information

Cable Modem : AMBIT DOCSIS 2.0 Cable Modem	MAC Address : 00:08:0e:86:11:18
Serial Number : 0334000122	Board ID : U10C012.60
Boot Code Version : 2.1.5	Software Version : 5.20.1105
Hardware Version : 4.7	Web Based Configuration Pages Version : 1.0.2

http://192.168.100.1/auth1_P_status.html Internet

Downstream

Cable Modem - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media

Address <http://192.168.100.1/> Go Links

AMBIT Cable Modem

LOGOUT
CABLE MODEM INFORMATION

CABLE MODEM

- Information
- Status
- **Downstream**
- Upstream
- Upstream Burst
- Operation Config
- Event Log

FIREWALL
PARENTAL CONTROL
DIAGNOSTICS

Downstream

Downstream Lock :	Locked
Downstream Frequency :	561000000 Hz
Downstream Modulation :	QAM64
Downstream Interleave Depth :	32
Downstream Receive Power Level :	1.3 dBmV
Downstream SNR :	34.2 dB

http://192.168.100.1/auth1_P_downstatus.html Internet

Upstream

Cable Modem - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://192.168.100.1/> Go Links

AMBIT Cable Modem

LOGOUT
CABLE MODEM INFORMATION

CABLE MODEM

- Information
- Status
- Downstream
- **Upstream**
- Upstream Burst
- Operation Config
- Event Log

FIREWALL
PARENTAL CONTROL
DIAGNOSTICS

Upstream

Upstream Channel ID : 2
Upstream Transmit Power Level : 32.5 dBmV
Upstream Symbol Rate : 2560 Ksym/sec
Upstream Frequency : 28700000 Hz
Upstream Mini-Slot Size : 2

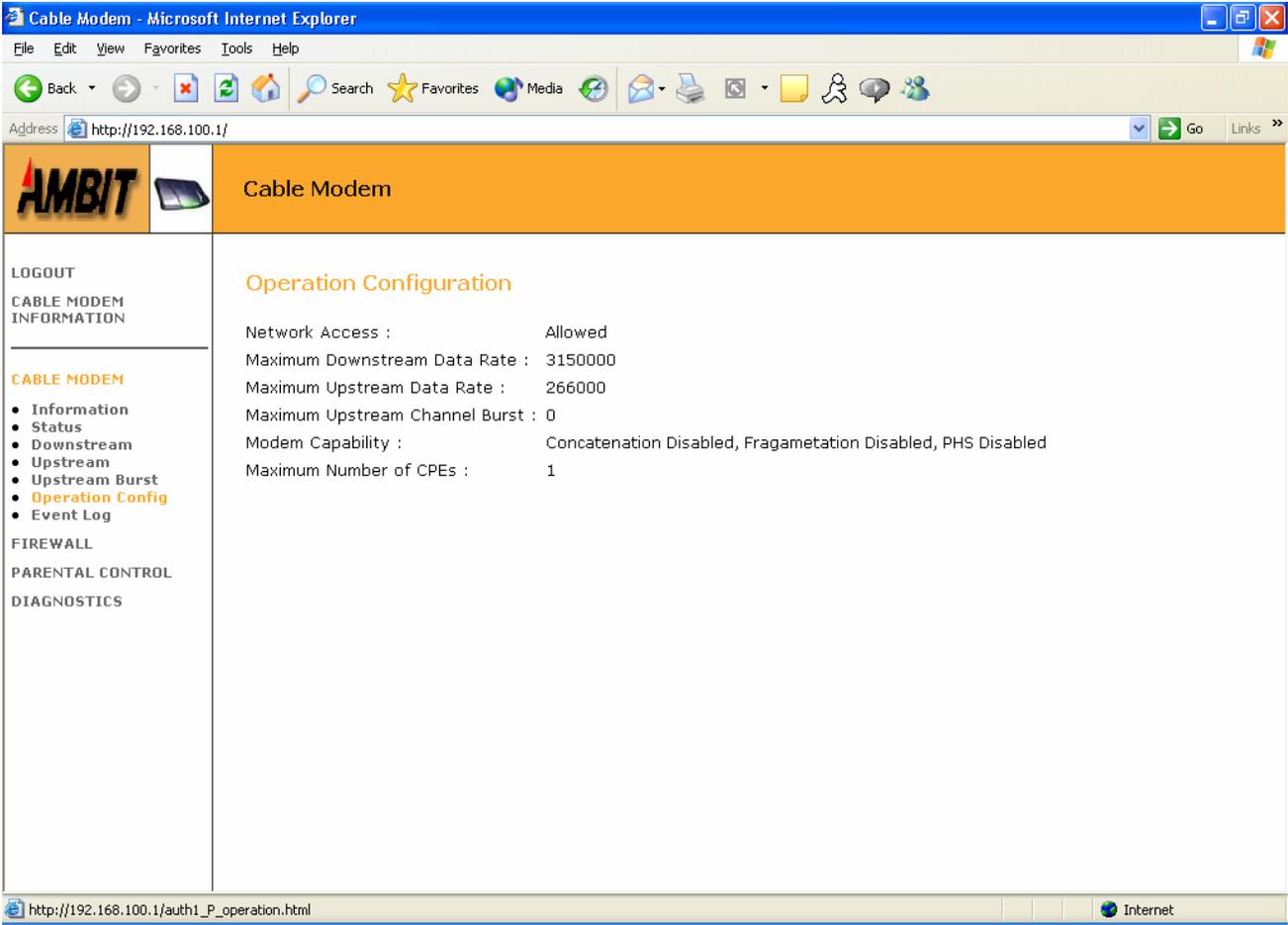
http://192.168.100.1/auth1_P_upstatus.html Internet

Upstream Burst

The screenshot shows a Microsoft Internet Explorer browser window displaying the configuration page for a Cable Modem. The address bar shows the URL <http://192.168.100.1/>. The page title is "Cable Modem" and features the AMBIT logo. The main content area is titled "Upstream Burst" and contains a table of configuration parameters. A left-hand navigation menu lists various sections including "CABLE MODEM INFORMATION", "CABLE MODEM", "FIREWALL", "PARENTAL CONTROL", and "DIAGNOSTICS". The "CABLE MODEM" section is expanded, showing sub-items like "Information", "Status", "Downstream", "Upstream", "Upstream Burst" (which is highlighted), "Operation Config", and "Event Log".

	request(1)	initialRanging(3)	periodicRanging(4)	shortData(5)	longData(6)
Modulation Type	QPSK	QPSK	QPSK	QPSK	QPSK
Differential Encoding	Off	Off	Off	Off	Off
Preamble Length	64	128	128	72	80
Preamble Value Offset	56	0	0	48	40
FEC Error Correction (T)	0	5	5	5	8
FEC Codeword Information Bytes (k)	16	34	34	78	220
Scrambler Seed	338	338	338	338	338
Maximum Burst Size	2	0	0	12	0
Guard Time Size	8	48	48	8	8
Last Codeword Length	Fixed	Fixed	Fixed	Short	Short
Scrambler on/off	On	On	On	On	On

Operation Parameters



Cable Modem - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://192.168.100.1/> Go Links

AMBIT Cable Modem

LOGOUT
CABLE MODEM INFORMATION

CABLE MODEM

- Information
- Status
- Downstream
- Upstream
- Upstream Burst
- **Operation Config**
- Event Log

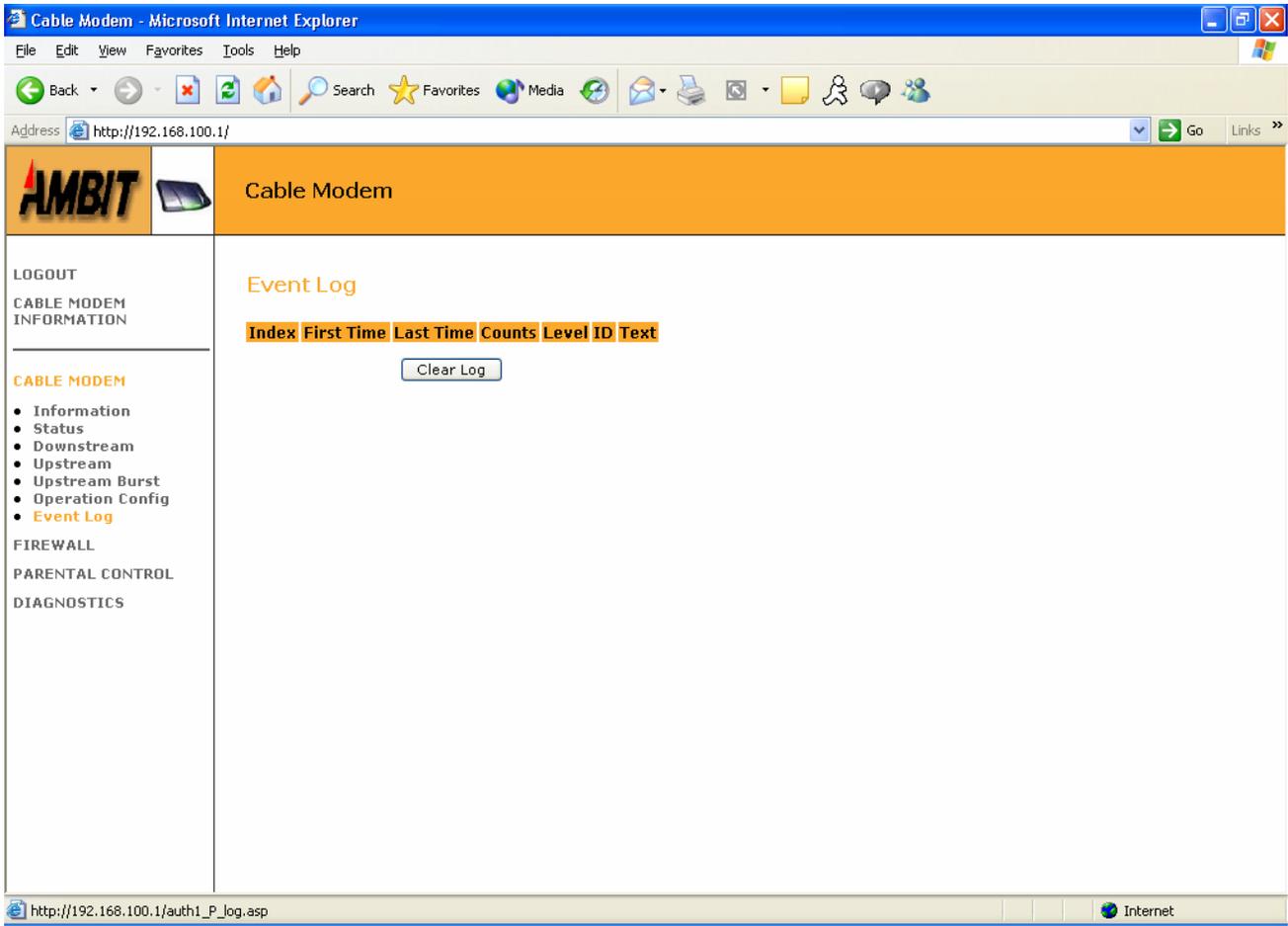
FIREWALL
PARENTAL CONTROL
DIAGNOSTICS

Operation Configuration

Network Access : Allowed
Maximum Downstream Data Rate : 3150000
Maximum Upstream Data Rate : 266000
Maximum Upstream Channel Burst : 0
Modem Capability : Concatenation Disabled, Fragametation Disabled, PHS Disabled
Maximum Number of CPEs : 1

http://192.168.100.1/auth1_P_operation.html Internet

Event Log

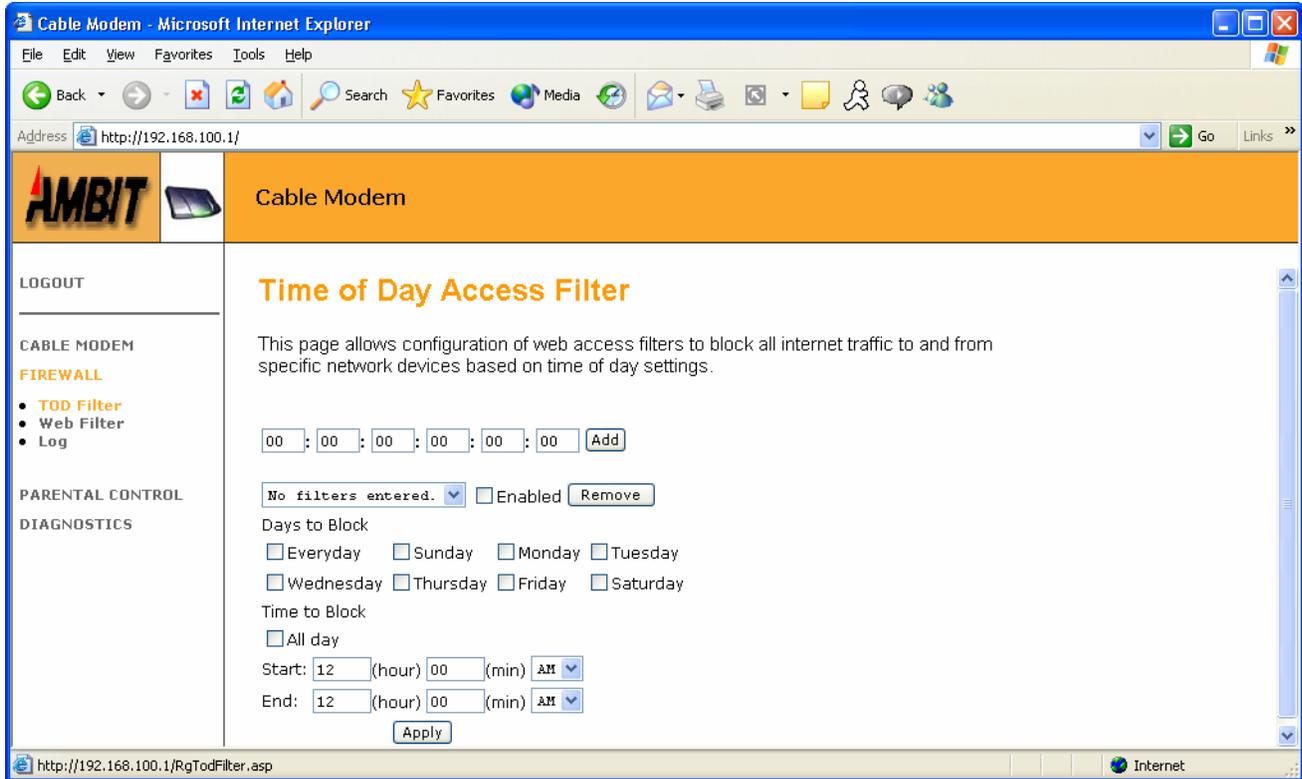


- **Clear Log**
Click "Clear Log" to empty event log.

FIREWALL

TOD Filter

This page allows configuration of web access filters to block all internet traffic to and from specific network devices based on time of day settings.



Time of Day Access Filter

- **ADD**
Specify MAC address of the CPE to be filtered.
- **Remove**
Click to remove MAC address entry in the list.
- **Enable**
Check to enable TOD access filter based on the MAC address entry.
Uncheck to disable TOD access filter.

Days to Block

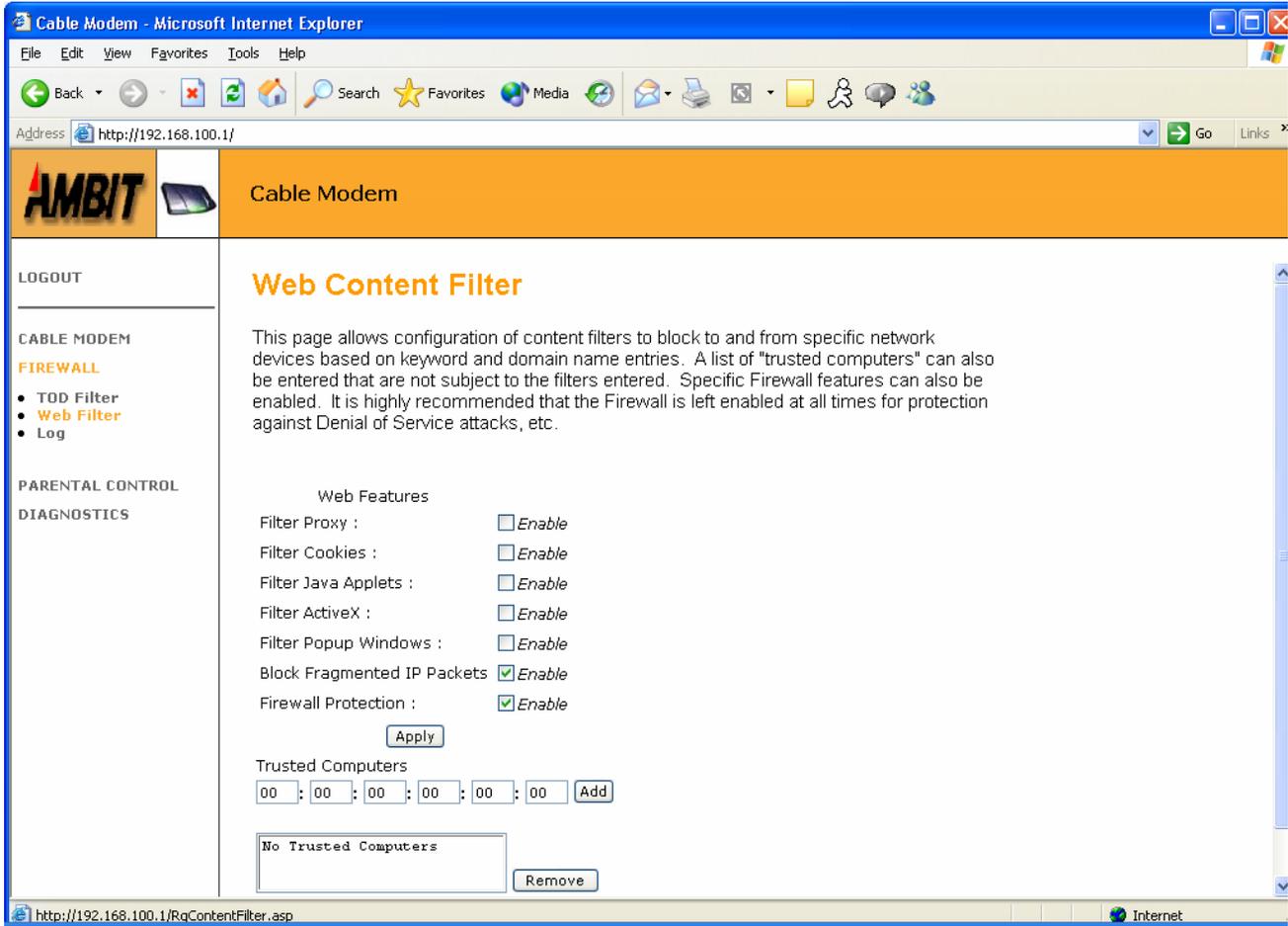
- **Everyday, Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday**
Check to specify which day to enable TOD access filter.
Uncheck to specify which day to disable TOD access filter.

Time to Block

- **All day**
Check to enable access filter.
Uncheck to disable access filter
- **Start**
Specify starting time to enable access filter.
- **End**
Specify ending time to disable access filter.
- **Apply**
Click “Apply” to change the displayed parameters.

Application Filters

This page allows configuration of application filters. A list of "trusted computers" can also be entered that are not subject to the filters entered. Specific Firewall features can also be enabled. It is highly recommended that the Firewall is left enabled at all times for protection against Denial of Service attacks, etc.



Application filters

- **Filter Proxy**
Check to enable Proxy filter.
Uncheck to disable Proxy filter.
- **Filter Cookies**
Check to enable cookies filter.
Uncheck to disable cookies filter.
- **Filter Java Applets**
Check to enable Java Applets filter.
Uncheck to disable Java Applets filter.
- **Filter ActiveX**

Check to enable ActiveX filter.

Uncheck to disable ActiveX filter.

- **Filter Popup Windows**

Check to enable Popup Windows filter.

Uncheck to disable Popup Windows filter.

- **Block Fragmented IP Packets**

Check to enable Fragmented IP Packets filter.

Uncheck to disable Fragmented IP Packets filter.

- **Firewall Protection**

Check to enable Firewall protection.

Uncheck to disable Firewall protection.

- **Apply**

Click “**Apply**” to change the displayed parameters.

Trusted Computers

- **Add**

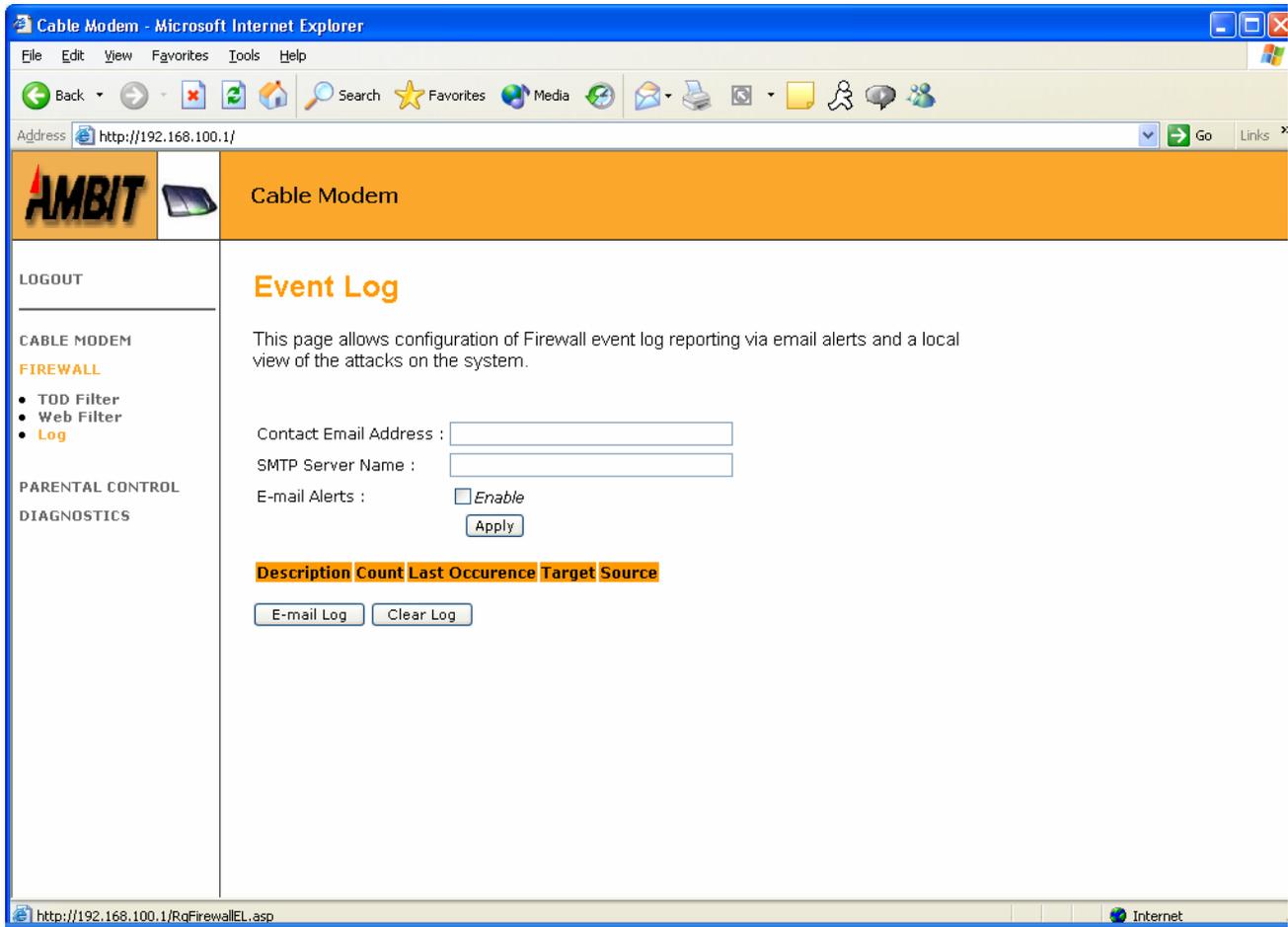
Specify MAC address of the CPE to be added in the Trusted Computer list.

- **Remove**

Select the MAC address of the CPE to be removed from the Trusted Computers list.

Event Log

This page allows configuration of Firewall event log reporting via E-mail alerts and a local view of the attacks on the system.



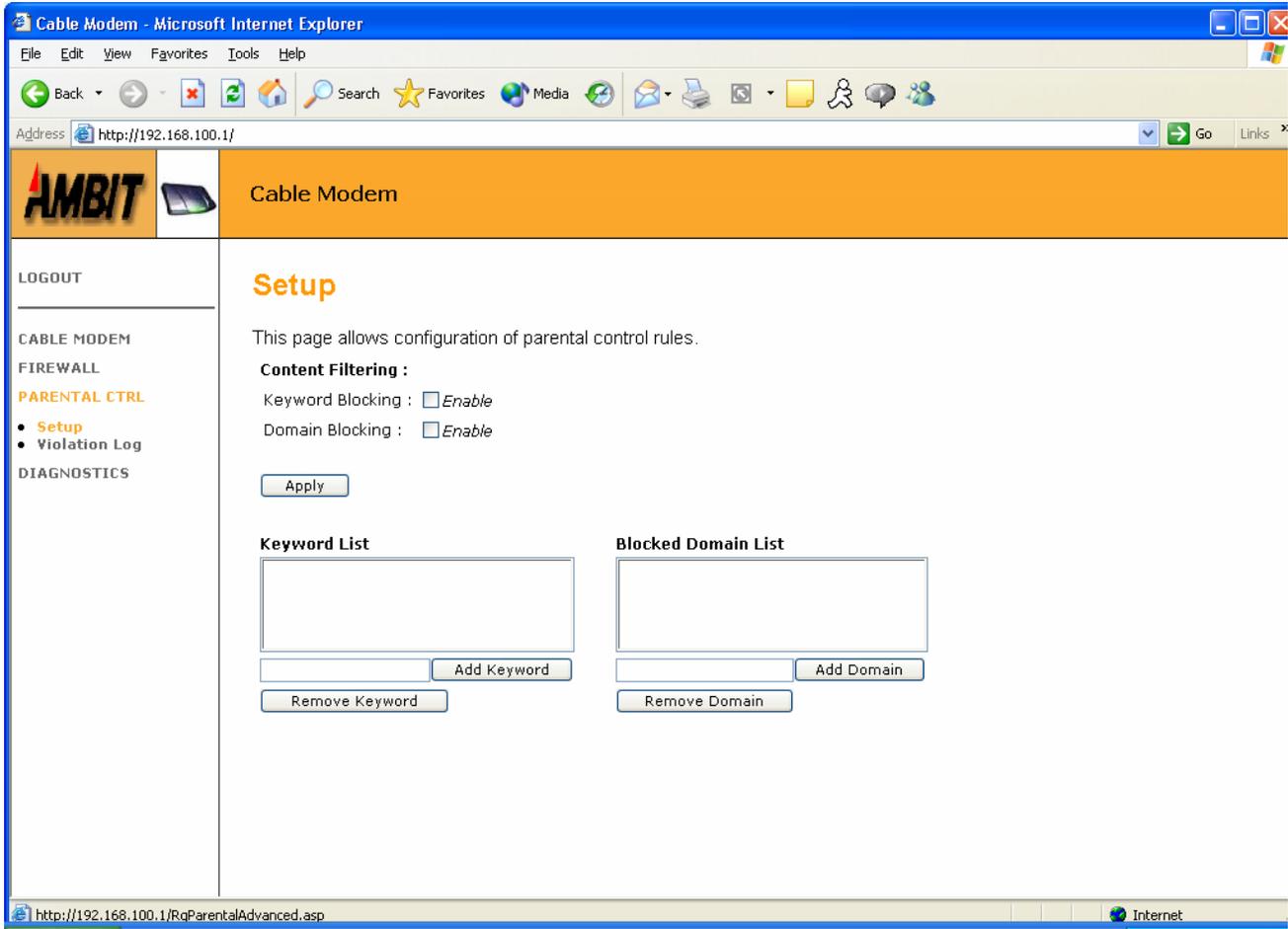
Event Log

- **Contact E-mail Address**
Specify E-mail address to receive event logs.
- **SMTP Server Name**
Specify SMTP Server Name that the out going event log E-mail is used.
- **E-mail Alerts**
Check **Enable** to start E-mail Alerts.
Uncheck **Enable** to stop E-mail Alerts.
- **Apply**
Click “**Apply**” to change the displayed parameters.
- **Clear Log**
Click “**Clear Log**” to empty event log table.

Parental Control

Setup

This page allows configuration of parental control rules.



- **Keyword Blocking**
Check to enable blocking based on the Keyword list.
Uncheck to disable keyword blocking.
- **Apply**
Click “**Apply**” to change the displayed parameters.
- **Add Keyword**
Specify the keyword and click **Add Keyword** to add the keyword into the list.
- **Remove Keyword**
Select the keyword from the list, and click **Remove Keyword** to remove the keyword from the list.
- **Domain Blocking**
Check to enable blocking based on the Domain list.
Uncheck to disable domain blocking.
- **Add Domain**
Specify the domain and click **Add Domain** to add the domain into the list.
- **Remove Domain**
Select the domain from the list, and click **Remove Keyword** to remove the domain from the list.

Violation Log

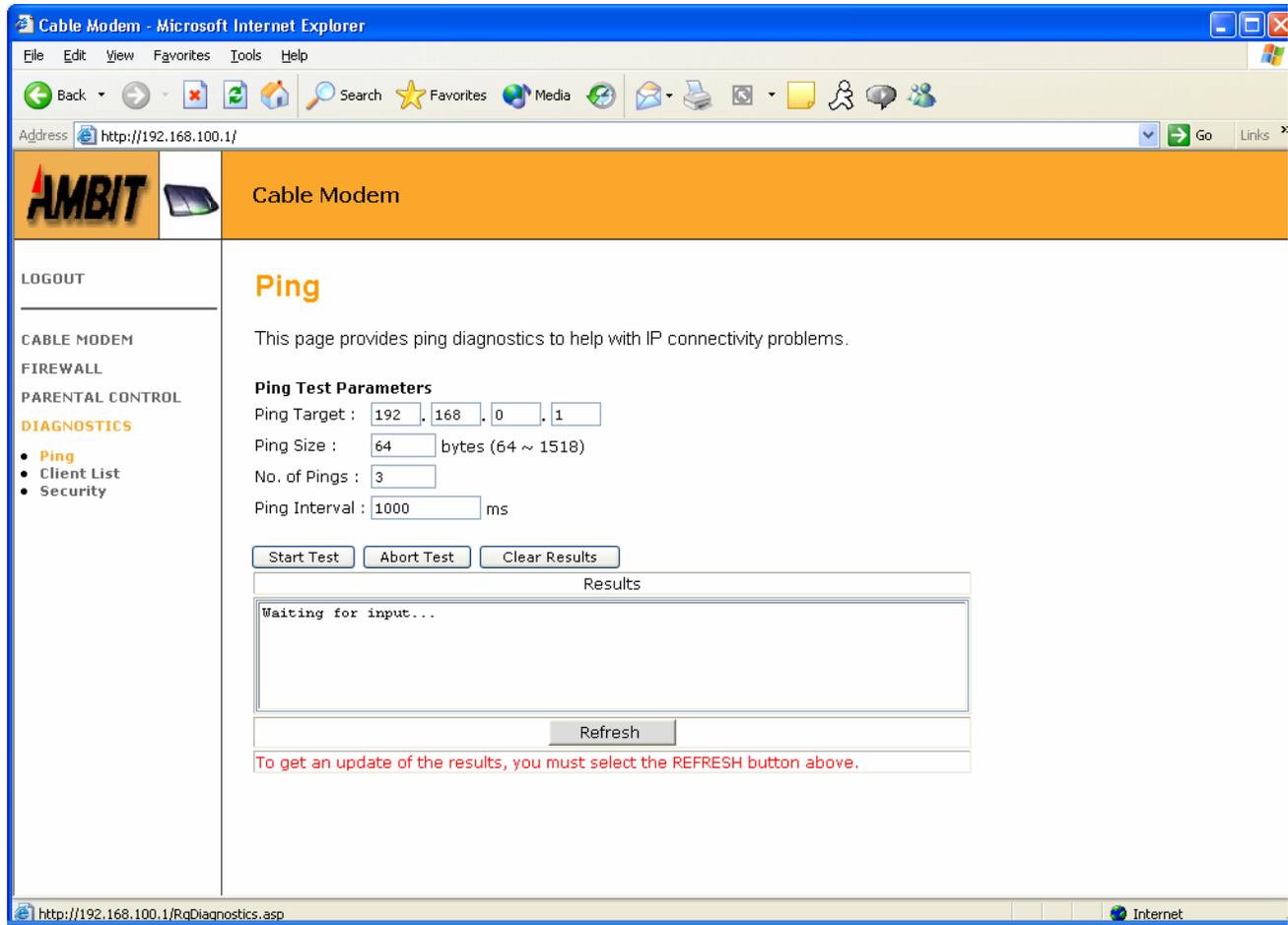
This page provides a local view of the Parental control violation log.

The screenshot shows a Microsoft Internet Explorer browser window titled "Cable Modem - Microsoft Internet Explorer". The address bar displays "http://192.168.100.1/". The page content includes the "AMBIT" logo and a navigation menu on the left with the following items: LOGOUT, CABLE MODEM, FIREWALL, PARENTAL CTRL (highlighted), Setup, Violation Log (highlighted), and DIAGNOSTICS. The main content area is titled "Violation Log" and contains the text: "This page provides a local view of the Parental control violation log." Below this text is a table header with the following columns: Computer Name, Mac Address, Date, Time, Filter, and Action. The table body is currently empty.

Diagnostics

Ping

This page provides ping diagnostics to help with IP connectivity problems.

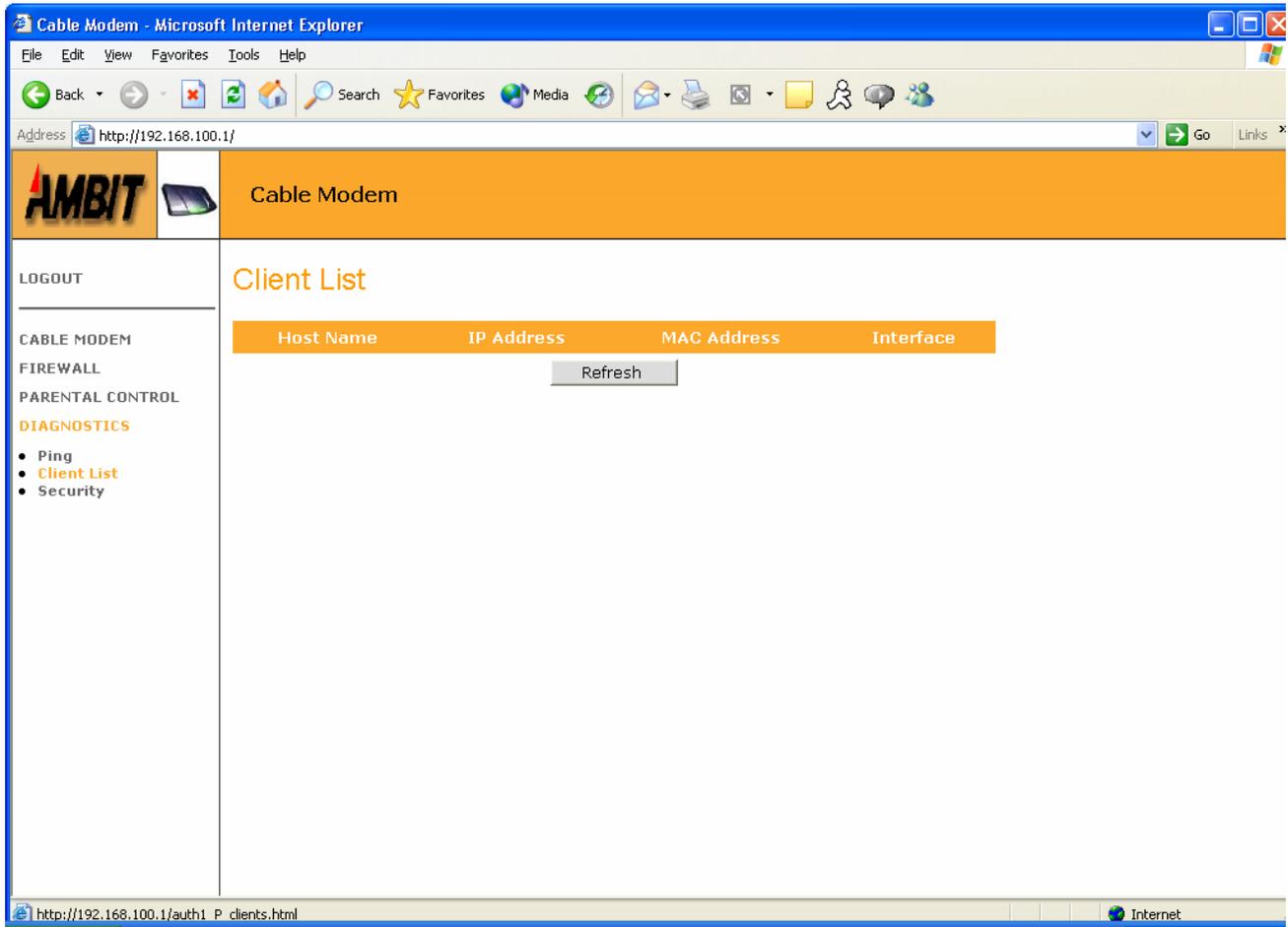


Ping Test Parameters

- **Ping Target**
Specify target IP address.
- **Ping Size**
Specify ping packet size in bytes.
- **No. of Pings**
Specify number of pings.
- **Ping Interval**
Specify interval between pings in ms.
- **Start Test**
Click to start ping test.
- **Abort Test**
Click to abort ping test.
- **Clear Results**
Click to clear result messages.
- **Refresh**
Click “**Refresh**” to get updated results.

Client List

This page shows listing of client's information.



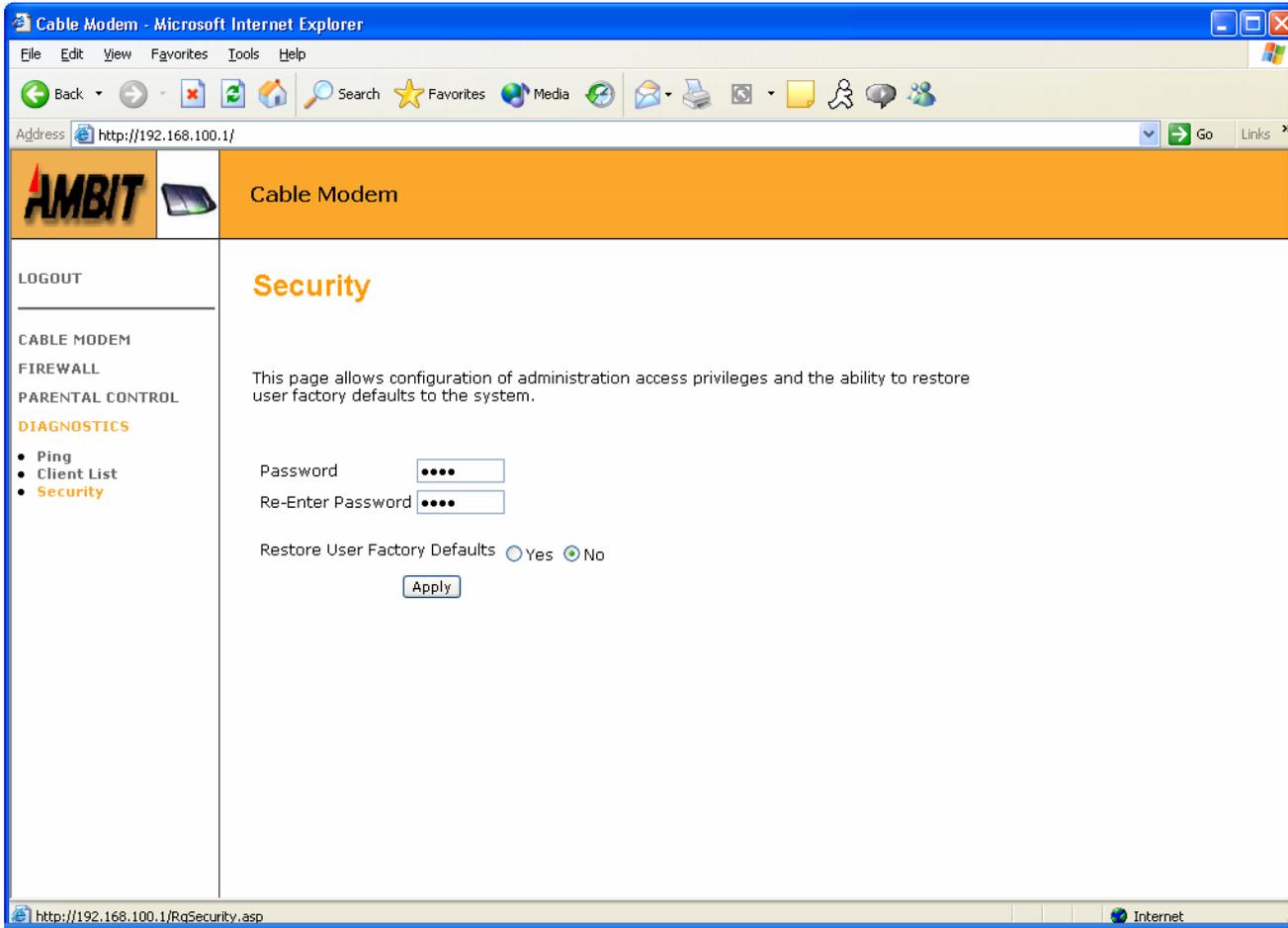
The screenshot shows a Microsoft Internet Explorer browser window titled "Cable Modem - Microsoft Internet Explorer". The address bar displays "http://192.168.100.1/". The page content includes an orange header with the "AMBIT" logo and "Cable Modem" text. A left sidebar contains navigation links: LOGOUT, CABLE MODEM, FIREWALL, PARENTAL CONTROL, and DIAGNOSTICS. Under DIAGNOSTICS, there are sub-links for Ping, Client List (highlighted in orange), and Security. The main content area is titled "Client List" and features a table with the following headers: Host Name, IP Address, MAC Address, and Interface. Below the table is a "Refresh" button. The status bar at the bottom shows the URL "http://192.168.100.1/auth1_P_clients.html" and the "Internet" icon.

- **Refresh**

Click “**Refresh**” to get updated results.

Security

This page allows password change and the ability to set user configuration to factory defaults.



Security

- **Password**
Enter new password.
- **Re-Enter Password**
Re-enter password to confirm.
- **Restore User Factory Defaults**
Click **Yes** to set user configuration to factory defaults.
Click **No** to keep current user configuration.
- **Apply**
Click “**Apply**” to change the displayed parameters.