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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:
  - 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 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”.

User’s Guide
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.

![Found New Hardware](image)

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

![Add New Hardware Wizard](image)

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.
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
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 your 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](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
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.
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 is 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 you 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 is 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

<table>
<thead>
<tr>
<th>pwr</th>
<th>usb</th>
<th>sync</th>
<th>ready</th>
<th>Ethernet</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

- **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. - Open the web browser and set the address to: http://192.168.100.1 for local access.

2. Click LOGIN. Enter user for User name and user for Password, and then click OK.
3. If the user enters an incorrect user name and/or password, the web user interface displays “401 Unauthorized”.

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 the cable modem information. They include:

**Cable Modem**

**Cable Modem Information**

---

**CABLE MODEM**
- Information
- Status
- Downstream
- Upstream
- Upstream Burst
- Operation Config.
- Event Log

---

**Cable Modern Information**

- Cable Modern: DOCSIS 2.0.126.2.0 compliant
- MAC Address: 00:12:40:28:00:00
- Serial Number: 100009086420
- Boot Code Version: 2.1.4d
- Software Version: 5.6.1.1001
- Hardware Version: 4.50
Cable Modem Status

<table>
<thead>
<tr>
<th>Item</th>
<th>Status</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acquire a Downstream Channel</td>
<td>385000000 Hz</td>
<td>Locked</td>
</tr>
<tr>
<td>Connectivity Status</td>
<td>OK</td>
<td>Operational</td>
</tr>
<tr>
<td>Root Status</td>
<td>OK</td>
<td>Operational</td>
</tr>
<tr>
<td>Security</td>
<td>Disabled</td>
<td>Disabled</td>
</tr>
</tbody>
</table>

Refresh
Downstream

Cable Mode Downstream

- Downstream Lock: Locked
- Downstream Channel Id: 4
- Downstream Frequency: 58000000 Hz
- Downstream Modulation: QAM2304
- Downstream Symbol Rate: 550x337 Kbps
- Downstream Receive Power Level: -10 dBm
- Downstream SNR: 45.7 dB
Upstream

Cable Modem Upstream

- Upstream Lock: Locked
- Upstream Channel ID: 87
- Upstream Frequency: 100000000 Hz
- Upstream Modulation: QPSK
- Upstream Symbol Rate: 2560 kbps
- Upstream transmit Power Level: 22.0 dBmV
- Upstream Mini-Block Size: 4

Refresh
## Upstream Burst

### Cable Modem upstream Burst

<table>
<thead>
<tr>
<th>Modulation Type</th>
<th>Req Payload</th>
<th>Init Main</th>
<th>Per Main</th>
<th>Short Data</th>
<th>Long Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>QPSK</td>
<td>QPSK</td>
<td>QPSK</td>
<td>QPSK</td>
<td>QPSK</td>
<td>QPSK</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Differential Encoding</th>
<th>Off</th>
<th>Off</th>
<th>Off</th>
<th>Off</th>
<th>Off</th>
<th>Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>preamble Length</td>
<td>120</td>
<td>120</td>
<td>120</td>
<td>120</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>preamble value offset</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>FEC Error Correlation</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>FEC Codeword Information Style</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>scrambler seed</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Maximum burst size</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>130</td>
<td>0</td>
</tr>
<tr>
<td>guard time size</td>
<td>40</td>
<td>64</td>
<td>16</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Last Codeword Length</td>
<td>Fixed</td>
<td>Fixed</td>
<td>Fixed</td>
<td>Fixed</td>
<td>Fixed</td>
<td>Fixed</td>
</tr>
<tr>
<td>scrambler on/off</td>
<td>Off</td>
<td>Off</td>
<td>Off</td>
<td>Off</td>
<td>Off</td>
<td>Off</td>
</tr>
</tbody>
</table>
Operation Configuration

Cable Modem Operation Configuration

- Network Access: Allowed
- Maximum Downstream Data Rate: 5130000
- Maximum Upstream Data Rate: 3024000
- Maximum Upstream Channel Burst: 1630
- Maximum Number of CTSs: 5
- Modem Capability: Concatenation Disabled, Fragmentation Disabled, P440 Disabled
Event Log

- **Refresh**
  Click to update event log.

- **Clear Log**
  Click to clear event log.
Gateway

Information

This page shows gateway information.

Gateway Information

• Refresh

   Click “Refresh” to get current gateway information.
**Static-lease**

This page allows configuration of static-lease option for the internal DHCP server for the private LAN.

**Gateway – DHCP Static lease**

- **MAC Address**
  Enter the MAC address in hexadecimal format.

- **IP Address**
  Enter one of the internal private IP addresses from the ip-pool for a specified MAC address.

- **Enabled**
  Check “Enabled” to assign static private IP address based on specified MAC address.

- **Clear**
  Check “Clear” to remove static private IP address based on specified MAC address.

- **Apply**
  Click to submit changes.
DDNS
This page allows setup of Dynamic DNS service.

Gateway – Dynamic DNS service

• DDNS Service
  Enter DDNS service provider’s address to enable DDNS.

• User Name
  Enter User Name provided by DDNS service provider.

• Password
  Enter User Password provided by DDNS service provider.

• Host Name
  Enter host name for DDNS service provider

• Apply
  Click to submit changes.
Parental Control

User Setup

This page allows configuration of users. ‘White List Only’ feature limits the user to visit only the sites specified in the Allowed Domain List of his/her content rule.

The Parental Control – User Setup Page is the master page to which each individual “user” is linked to a specified time access rule, content filtering rule, and login password to get to the filtered content. Each specified user may also be enabled as a “trusted user” which means that person will have access to all Internet content regardless of filters that may be set up. This check box can be used as a simple override to grant a user full access but still having the ability to keep all of the previous filtering settings stored and available. Session duration timers can also be entered to allow a finite amount of time that a user has Internet access via the rules entered once entering their password to get to the Internet for the first time. This allows access to the Internet for a defined user without having to enter a password every time a new web page is served to the client. Likewise, there is a password inactivity timer if there is no
Internet access for the specified amount of time in minutes, requiring the user to re-login at expiration to continue using the Internet. These timed logins insure that a specific user is using the Internet gateway for access and logging/access can be provided appropriately. Any time a change is made on this page for a particular user, the Apply button at the bottom of the page needs to be pressed to activate and store the settings.

**Parental Control – User Setup**

- **Add User**
  Enter new user name.
  Click to add new user.

- **Remove User**
  Select user name, click Remove User to delete user.

- **Password**
  Enter new user password.

- **Re-Enter Password**
  Enter new user password again to confirm.

- **Trusted User**
  Click to allow all internet content regardless of filters that may be setup.

- **Content rule**
  Click to apply White List Access Only.

- **Time Access rule**
  Click to apply time access rule selected.

- **Content rule**
  Click to apply White List Access Only.

- **Session Duration**
  Specify session duration.

- **Inactivity timer**
  Specify inactivity timer.

- **Apply**
  Click to submit changes.

- **Trusted Computer**
  Specify trusted computer by MAC address.

- **Remove**
  Click to remove trusted computer from the list.
**Settings**

This page allows basic selection of rules which block certain Internet content and certain Web sites. When you change your Parental Control settings, you must click on the appropriate "Apply", "Add" or "Remove" button for your new settings to take effect. If you refresh your browser's display, you will see the currently active settings.

![Parental Control - Settings](image)

**Parental Control - Settings**

- **Enable Parental Control**
  
  Check to enable parental control.
  
  Click “Apply” to submit changes.

- **Add New Policy**
  
  Enter new policy name.
  
  Click “Add New Policy” to create new policy.

- **Add Keyword**
  
  Enter new keyword.
  
  Click “Add Keyword” to add new keyword.

- **Remove Keyword**
  
  Select keyword from the list.
Click “Remove Keyword” to remove keyword from the list.

- **Add Domain**
  
Enter new domain.
  
  Click “**Add Domain**” to add new domain.

- **Remove Domain**
  
  Select domain from the list.
  
  Click “**Remove Domain**” to remove domain from the list.

- **Add Allowed Domain**
  
Enter new allowed domain.
  
  Click “**Add Allowed Domain**” to add new allowed domain.

- **Remove Allowed Domain**
  
  Select allowed domain from the list.
  
  Click “**Remove Allowed Domain**” to remove allowed domain from the list.
**TOD Filter**

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

**Parental Control – Time Access Policy**

- **Add New Policy**
  
  Enter new policy name.
  
  Click “Add New Policy” to add new time access policy.

- **Enable**

  Select policy name.
  
  Click “Enable” to enable selected time access policy.

- **Remove**

  Select policy name.
  
  Click “Remove” to remove selected time access policy.

- **Days to block**

  Check day(s) to apply the selected time access policy from the list.
Specify start time & end time for each day. Click "Apply" to submit changes.
**Event Log**

This page displays Parental Control event log reporting.

**Parental Control – Event Log**

- **Refresh**
  
  Click to update event log.

- **Clear Log**

  Click to clear event log.
Parental Control Flow

Firewall

Content Filter

This page allows certain Web-oriented cookies, java scripts, and pop-up windows to be blocked by the firewall. A list of "trusted computers" can also be defined that are not subject to any filters configured. 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. Go to the Parental Control page to block internet access to specific sites.
Firewall – Content Filter Settings

• Filter Proxy
  Click to enable Proxy filter.

• Filter Cookies
  Click to enable Cookies filter.

• Filter Java Applets
  Click to enable Java Applets filter.

• Filter ActiveX
  Click to enable ActiveX filter.

• Filter Popup Windows
  Click to enable Popup Windows filter.

Firewall – Settings

• Block Fragmented IP Packets
  Click to enable blocking of Fragmented IP Packets.

"With this feature enabled, all packets are checked to determine if the packet contains a "fragment" flag. If the flag exists, the CM will discard the packet. This feature is used primarily to protect against any intruders/hackers from gaining access to the router or network."
feature may cause communication issues with other devices on the network and should be disabled. For example, streaming media applications may fragment the packets depending on the encoding used for the video stream. Depending on the encoding used for the clip, some or a majority of the packets will become fragmented. For clips encoded at 300 Kbps, 66% of the packets are IP fragments, while below 100 Kbps there is no fragmentation.

- **Port Scan Detection**
  Click to enable blocking of Port Scan

- **IP Flood Detection**
  Click to enable blocking of IP Flood.

- **Firewall Protection**
  Click to enable Firewall Protection.

**Protection against incoming connection requests on routed subnet**
Click to enable protection against incoming connection requests on routed subnet

- **Apply**
  Click to submit changes.
**Event Log**

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

- **Contact E-mail Address**
  Enter E-mail address for sending Firewall event log.

- **SMTP Server Name**
  Enter SMTP Server Name for sending Firewall event log.

- **Apply**
  Click to submit changes.

- **E-mail Log**
  Click to send current Firewall event log to e-mail address specified.

- **Clear Log**
  Click to clear event log.
Remote Log
This page allows optional configuration of events to be sent to a local SysLog server.

Firewall – Remote Event Log

- **Permitted Connection**
  Select to send permitted connection event to local SysLog server.

- **Blocked Connection**
  Select to send blocked connection event to local SysLog server.

- **Known Internet Attacks**
  Select to send known internet attack event to local SysLog server.

- **Production Configuration Events**
  Select to send product configuration event to local SysLog server.

- **SysLog Server**
  Enter local SysLog server IP address.

- **Apply**
  Click to submit changes.
Tools

Ping

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

- **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.
**Trace Route**

This page provides trace route diagnostics to help with IP connectivity problems.

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**Tools – Trace Route**

- **Tracer Target**
  Specify trace route target IP address.

- **MAX Hops**
  Specify maximum hops.

- **Timeout**
  Specify timeout.

- **Start Test**
  Click “Start Test” to start trace route test.

- **Abort Test**
  Click “Abort Test” to abort trace route test.

- **Clear Results**
  Click “Clear Results” to clear result messages.

- **Refresh**
  Click “Refresh” to get updated results.
**Client List**

This page shows connected computer in client list.

**Tools – Client List**

- **Refresh**
  
  Click “Refresh” to get updated results.
Password
This page allows you to change user's password.

Tools – Password
• Old Password
  Enter old password.
• New Password
  Enter new password.
• Confirm Password
  Confirm new password.

• Apply
  Click to submit changes.
Factory Defaults
This page allows you to restore factory defaults to the system.

Tools – User Defaults

- **Restore User Factory Defaults**
  Check "Yes" to restore user firewall and content filter to factory defaults.

- **Apply**
  Click to submit changes.