Cisco Model DPC3010 and EPC3010 DOCSIS 3.0 8x4 Cable Modem User Guide

In This Document

IMPORTANT SAFETY INSTRUCTIONS

Notice to Installers

The servicing instructions in this notice are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions, unless you are qualified to do so.

Note to System Installer

For this apparatus, the coaxial cable shield/screen shall be grounded as close as practical to the point of entry of the cable into the building. For products sold in the US and Canada, this reminder is provided to call the system installer's attention to Article 820-93 and Article 820-100 of the NEC (or Canadian Electrical Code Part 1), which provides guidelines for proper grounding of the coaxial cable shield.

This symbol is intended to alert you that uninsulated voltage within this product may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this product.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

AVIS
RISQUE DE CHOC ÉLECTRIQUE
NE PAS OUVRIR

CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.

WARNING
TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

This symbol is intended to alert you of the presence of important operating and maintenance (servicing) instructions in the literature accompanying this product.

Notice à l'attention des installateurs de réseaux câblés

Les instructions relatives aux interventions d'entretien, fournies dans la présente notice, s'adressent exclusivement au personnel technique qualifié. Pour réduire les risques de chocs électriques, n'effectuer aucune intervention autre que celles décrites dans le mode d'emploi et les instructions relatives au fonctionnement, à moins que vous ne soyez qualifié pour ce faire.

Remarque à l'attention de l'installateur du système

Avec cet appareil, le blindage/écran du câble coaxial doit être mis à la terre aussi près que possible du point d'entrée du câble dans le bâtiment. En ce qui concerne les produits vendus aux États-Unis et au Canada, ce rappel est fourni pour attirer l'attention de l'installateur sur les articles 820-93 et 820-100 du Code national de l'électricité (ou Code de l'électricité canadien, Partie 1) qui fournissent des lignes directrices concernant la mise à la terre correcte du blindage (écran) du câble coaxial.

Ce symbole a pour but de vous prévenir que des tensions électriques non isolées existent à l'intérieur de ce produit, pouvant être d'une intensité suffisante pour causer des chocs électriques. Il est donc dangereux d'établir un contact quelconque avec l'une des pièces comprises à l'intérieur de ce produit.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

ATTENTION
DANGER ÉLECTRIQUE
NE PAS OUVRIR

ATTENTION : Pour réduire les risques de chocs électriques, ne pas enlever le couvercle (ou le panneau arrière). Ne contient aucune pièce réparable par l'utilisateur. Confier les interventions aux techniciens d'entretien qualifiés.

AVERTISSEMENT
POUR ÉVITER LES INCENDIES OU LES CHOCS ÉLECTRIQUES, NE PAS EXPOSER L'APPAREIL À LA PLUIE OU À L'HUMIDITÉ.

Ce symbole a pour but de vous prévenir de la présence d'instructions importantes relatives au fonctionnement ou à l'entretien (et aux réparations) dans la documentation accompagnant ce produit.

Mitteilung für CATV-Techniker

Die in dieser Mitteilung aufgeführten Wartungsanweisungen sind ausschließlich für qualifiziertes Fachpersonal bestimmt. Um die Gefahr eines elektrischen Schlags zu reduzieren, sollten Sie keine Wartungsarbeiten durchführen, die nicht ausdrücklich in der Bedienungsanleitung aufgeführt sind, außer Sie sind zur Durchführung solcher Arbeiten qualifiziert.

Mitteilung an den Systemtechniker

Für dieses Gerät muss der Koaxialkabelschutz/Schirm so nahe wie möglich am Eintrittspunkt des Kabels in das Gebäude geerdet werden Dieser Erinnerungshinweis liegt den in den USA oder Kanada verkauften Produkten bei. Er soll den Systemtechniker auf Paragraph 820-93 und Paragraph 820-100 der US-Elektrovorschrift NEC (oder der kanadischen Elektrovorschrift Canadian Electrical Code Teil 1) aufmerksam machen, in denen die Richtlinien für die ordnungsgemäße Erdung des Koaxialkabelschirms festgehalten sind.

Dieses Symbol weist den Benutzer auf das Vorhandensein von nicht isolierten gefährlichen Spannungen im Gerät hin, die Stromschläge verursachen können. Ein Kontakt mit den internen Teilen dieses Produktes ist mit Gefahren verbunden.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

ACHTUNG
STROMSCHLAGGEFAHR, NICHT ÖFFNEN

ACHTUNG: Zur Vermeidung eines Stromschlags darf die Abdeckung (bzw. die Geräterückwand) nicht entfernt werden. Das Gerät enthält keine vom Benutzer wartbaren Teile. Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal durchgeführt werden.

WARNUNG
DAS GERÄT NICHT REGEN ODER FEUCHTIGKEIT AUSSETZEN, UM STROMSCHLAG ODER DURCH EINEN KURZSCHLUSS VERURSACHTEN BRAND ZU VERMEIDEN.

Dieses Symbol weist den Benutzer darauf hin, dass die mit diesem Produkt gelieferte Dokumentation wichtige Betriebs- und Wartungsanweisungen für das Gerät enthält.

Aviso a los instaladores de sistemas CATV

Las instrucciones de reparación contenidas en el presente aviso son para uso exclusivo por parte de personal de mantenimiento cualificado. Con el fin de reducir el riesgo de descarga eléctrica, no realice ninguna otra operación de reparación distinta a las contenidas en las instrucciones de funcionamiento, a menos que posea la cualificación necesaria para hacerlo.

Nota para el instalador del sistema

En lo que se refiere a este aparato, el blindaje del cable coaxial debe conectarse a tierra lo más cerca posible al punto por el cual el cable entra en el edificio. En el caso de los productos vendidos en los EE. UU. y Canadá, el presente aviso se suministra para llamar la atención del instalador del sistema sobre los Artículos 820-93 y 820-100 del NEC (o Código Eléctrico de Canadá, Parte 1), que proporcionan directrices para una correcta conexión a tierra del blindaje del cable coaxial.

Este símbolo tiene como fin advertirle de que una tensión sin aislamiento en el interior de este producto podría ser de una magnitud suficiente como para provocar una descarga eléctrica. Por consiguiente, resulta peligroso realizar cualquier tipo de contacto con alguno de los componentes internos de este producto.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

ATENCIÓN
RIESGO DE DESCARGA ELÉCTRICA NO ABRIR

ATENCIÓN: con el fin de reducir el riesgo de descarga eléctrica, no retire la tapa (ni la parte posterior). No existen en el interior componentes que puedan ser reparados por el usuario. Encargue su revisión a personal de mantenimiento cualificado.

ADVERTENCIA
PARA EVITAR EL RIESGO DE INCENDIO O DESCARGA ELÉCTRICA, NO EXPONGA LA UNIDAD A LA LLUVIA O A LA HUMEDAD.

Este símbolo tiene como fin alertarle de la presencia de importantes instrucciones de operación y mantenimiento (revisión) contenidas en la literatura que acompaña al producto.

20080814_Installer820_Intl

IMPORTANT SAFETY INSTRUCTIONS

1) Read these instructions.

2) Keep these instructions.

3) Heed all warnings.

4) Follow all instructions.

5) Do not use this apparatus near water.

6) Clean only with dry cloth.

7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11) Only use attachments/accessories specified by the manufacturer.

12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.

14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as a power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Power Source Warning

A label on this product indicates the correct power source for this product. Operate this product only from an electrical outlet with the voltage and frequency indicated on the product label. If you are uncertain of the type of power supply to your home or business, consult your service provider or your local power company.

The AC inlet on the unit must remain accessible and operable at all times.

Ground the Product

⚠ **WARNING: Avoid electric shock and fire hazard! If this product connects to coaxial cable wiring, be sure the cable system is grounded (earthed). Grounding provides some protection against voltage surges and built-up static charges.**

Protect the Product from Lightning

In addition to disconnecting the AC power from the wall outlet, disconnect the signal inputs.

Verify the Power Source from the On/Off Power Light

When the on/off power light is not illuminated, the apparatus may still be connected to the power source. The light may go out when the apparatus is turned off, regardless of whether it is still plugged into an AC power source.

Eliminate AC Mains Overloads

⚠ **WARNING: Avoid electric shock and fire hazard! Do not overload AC mains, outlets, extension cords, or integral convenience receptacles. For products that require battery power or other power sources to operate them, refer to the operating instructions for those products.**

Provide Ventilation and Select a Location

- Remove all packaging material before applying power to the product.

- Do not place this apparatus on a bed, sofa, rug, or similar surface.

- Do not place this apparatus on an unstable surface.

- Do not install this apparatus in an enclosure, such as a bookcase or rack, unless the installation provides proper ventilation.

- Do not place entertainment devices (such as VCRs or DVDs), lamps, books, vases with liquids, or other objects on top of this product.

- Do not block ventilation openings.

Protect from Exposure to Moisture and Foreign Objects

⚠ **WARNING: Avoid electric shock and fire hazard! Do not expose this product to dripping or splashing liquids, rain, or moisture. Objects filled with liquids, such as vases, should not be placed on this apparatus.**

⚠ **WARNING: Avoid electric shock and fire hazard! Unplug this product before cleaning. Do not use a liquid cleaner or an aerosol cleaner. Do not use a magnetic/static cleaning device (dust remover) to clean this product.**

⚠ **WARNING: Avoid electric shock and fire hazard! Never push objects through the openings in this product. Foreign objects can cause electrical shorts that can result in electric shock or fire.**

Service Warnings

⚠️ **WARNING: Avoid electric shock! Do not open the cover of this product. Opening or removing the cover may expose you to dangerous voltages. If you open the cover, your warranty will be void. This product contains no user-serviceable parts.**

Check Product Safety

Upon completion of any service or repairs to this product, the service technician must perform safety checks to determine that this product is in proper operating condition.

Protect the Product When Moving It

Always disconnect the power source when moving the apparatus or connecting or disconnecting cables.

20090326_Modem No Battery_Safety

FCC Compliance

United States FCC Compliance

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against such interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it 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 service provider or an experienced radio/television technician for help.

Any changes or modifications not expressly approved by Cisco Systems, Inc., could void the user's authority to operate the equipment.

The information shown in the FCC Declaration of Conformity paragraph below is a requirement of the FCC and is intended to supply you with information regarding the FCC approval of this device. *The phone numbers listed are for FCC-related questions only and not intended for questions regarding the connection or operation for this device. Please contact your service provider for any questions you may have regarding the operation or installation of this device.*

FC Declaration of Conformity

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

Cisco Model DPC3010 or EPC3010 DOCSIS
3.0 Cable Modem
Model: DPC3010 and EPC3010
Manufactured by:
Cisco Systems, Inc.
5030 Sugarloaf Parkway
Lawrenceville, Georgia 30044 USA
Telephone: 770-236-1077

Canada EMI Regulation

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la class B est conforme à la norme NMB-003 du Canada.

20081121 FCC Standard

CE Compliance

Declaration of Conformity with Regard to the EU Directive 1999/5/EC (R&TTE Directive)

This declaration is only valid for configurations (combinations of software, firmware and hardware) supported or provided by Cisco Systems for use within the EU. The use of software or firmware not supported or provided by Cisco Systems may result in the equipment no longer being compliant with the regulatory requirements.

Български [Bulgarian]	Това оборудване отговаря на съществените изисквания и приложими клаузи на Директива 1999/5/EC.
Česky [Czech]:	Toto zařízení je v souladu se základními požadavky a ostatními odpovídajícími ustanoveními Směrnice 1999/5/EC.
Dansk [Danish]:	Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 1999/5/EF.
Deutsch [German]:	Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 1999/5/EU.
Eesti [Estonian]:	See seade vastab direktiivi 1999/5/EÜ olulistele nõuetele ja teistele asjakohastele sätetele.
English:	This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Español [Spanish]:	Este equipo cumple con los requisitos esenciales asi como con otras disposiciones de la Directiva 1999/5/CE.
Ελληνική [Greek]:	Αυτός ο εξοπλισμός είναι σε συμμόρφωση με τις ουσιώδεις απαιτήσεις και άλλες σχετικές διατάξεις της Οδηγίας 1999/5/EC.
Français [French]:	Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 1999/5/EC.
Íslenska [Icelandic]:	Þetta tæki er samkvæmt grunnkröfum og öðrum viðeigandi ákvæðum Tilskipunar 1999/5/EC.
Italiano [Italian]:	Questo apparato é conforme ai requisiti essenziali ed agli altri principi sanciti dalla Direttiva 1999/5/CE.
Latviski [Latvian]:	Šī iekārta atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem
Lietuvių [Lithuanian]:	Šis įrenginys tenkina 1999/5/EB Direktyvos esminius reikalavimus ir kitas šios direktyvos nuostatas.
Nederlands [Dutch]:	Dit apparaat voldoet aan de essentiele eisen en andere van toepassing zijnde bepalingen van de Richtlijn 1999/5/EC.
Malti [Maltese]:	Dan l-apparat huwa konformi mal-ħtiġiet essenzjali u l-provedimenti l-oħra rilevanti tad-Direttiva 1999/5/EC.
Magyar [Hungarian]:	Ez a készülék teljesíti az alapvető követelményeket és más 1999/5/EK irányelvben meghatározott vonatkozó rendelkezéseket.
Norsk [Norwegian]:	Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 1999/5/EF.
Polski [Polish]:	Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE: 1999/5/EC.
Português [Portuguese]:	Este equipamento está em conformidade com os requisitos essenciais e outras provisões relevantes da Directiva 1999/5/EC.
Română [Romanian]	Acest echipament este in conformitate cu cerintele esentiale si cu alte prevederi relevante ale Directivei 1999/5/EC.
Slovensko [Slovenian]:	Ta naprava je skladna z bistvenimi zahtevami in ostalimi relevantnimi pogoji Direktive 1999/5/EC.
Slovensky [Slovak]:	Toto zariadenie je v zhode so základnými požiadavkami a inými príslušnými nariadeniami direktív: 1999/5/EC.
Suomi [Finnish]:	Tämä laite täyttää direktiivin 1999/5/EY olennaiset vaatimukset ja on siinä asetettujen muiden laitetta koskevien määräysten mukainen.
Svenska [Swedish]:	Denna utrustning är i överensstämmelse med de väsentliga kraven och andra relevanta bestämmelser i Direktiv 1999/5/EC.

Note: The full declaration of conformity for this product can be found in the Declarations of Conformity and Regulatory Information section of the appropriate product hardware installation guide, which is available on Cisco.com.

The following standards were applied during the assessment of the product against the requirements of the Directive 1999/5/EC:

- EMC: EN 55022 and EN 55024

- EN 61000-3-2 and EN 61000-3-3

- Safety: EN 60950-1

This product conforms to the following European directives:

$\mathsf{C}\,\mathsf{E}$ -2006/95/EC

                      -1999/5/EC

                      -2004/108/EC

20090312 CE_Modem/EMTA

Introducing the DPC3010 and EPC3010

Welcome to the exciting world of high-speed Internet access. You have acquired one of the fastest cable modems available on the market today. Your new Cisco® Model DPC3010 or Model EPC3010 DOCSIS® 3.0 Cable Modem offers high-end performance and superb reliability at data rates up to four times that of conventional DOCSIS 2.0 (DPC3010) and EuroDOCSIS™ (EPC3010) cable modems. With your new DPC3010 or EPC3010, your Internet enjoyment, home and business communications, and personal and business productivity will surely soar.

This guide provides procedures and recommendations for placing, installing, configuring, operating, and troubleshooting your DPC3010 or EPC3010.

Benefits and Features

Your new DPC3010 or EPC3010 offers the following additional outstanding benefits and features:

Home Networking

- Provides a high-speed broadband Internet connection that energizes your online experience and helps enable trouble-free downloading and sharing files and photos with your family and friends

- Includes bridged Gigabit Ethernet (GigE) and 10/100BASE-T auto-sensing/auto-MDIX Ethernet ports. Some models also include a USB 2.0 data port for high-speed data services to other devices

- Supports up to 64 users (1 USB port and up to 63 users on user-supplied Ethernet hubs)

- Allows you to attach multiple devices in your home or office to the cable modem for high-speed networking and sharing of files and folders without first copying them onto a CD or diskette

Performance

- Provides a faster connection to the Internet by incorporating four bonded downstream channels along with four bonded upstream channels, up to four times faster than conventional single-channel DOCSIS 2.0 cable modems

- Enhances interoperability with most service providers by complying with the following specifications to deliver high-end performance and reliability:

  – DPC3010: Designed to meet the specifications for DOCSIS 3.0 and is backward compatible with DOCSIS 2.0, 1.1, and 1.0

  – EPC3010: Designed to meet the specifications for EuroDOCSIS 3.0 and is backward compatible with EuroDOCSIS 2.0, 1.1, and 1.0

Design and Function

■ Color-coded connectors and cables for easy installation and setup

■ Features Plug and Play operation for easy set up and installation

■ Uses an attractive compact design and a versatile orientation to lie flat or stand vertically on a desktop or shelf, or mount easily on a wall

■ LED status indicators on the front panel provide an informative and easy-to-understand display that indicates the cable modem status and real-time data transmission activity

Management

■ Allows automatic software upgrades by your service provider

What's in the Carton?

When you receive your cable modem, you should check the equipment and accessories to verify that each item is in the carton and that each item is undamaged. The carton typically contains the following items:

One Cisco Model DPC3010 or EPC3010 DOCSIS 3.0 Cable Modem

One Ethernet cable (CAT5/RJ-45) (Ethernet cable may not be provided with all modems.)

One power adapter with power cord

One USB cable (USB cable may not be provided with all modems.)

One CD-ROM containing the user guide and the USB drivers

If any of these items are missing or damaged, please contact your service provider for assistance.

Note: You will need an optional cable signal splitter and additional standard RF coaxial cables if you want to connect a VCR, a Digital Home Communications Terminal (DHCT) or a set-top converter, or a TV to the same cable connection as your cable modem.

Front Panel Description

The front panel of your cable modem provides LED status indicators that indicate how well and at what state your cable modem is operating. After the cable modem is successfully registered on the network, the **POWER** and **ONLINE** LED status indicators illuminate continuously to show that the cable modem is active and fully operational. See *Front Panel LED Status Indicator Functions* (on page 32) for more information on front panel LED status indicator functions.
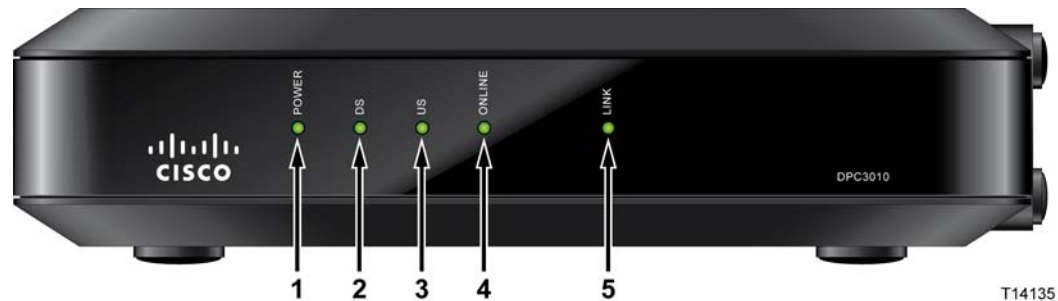
1 **POWER**—Illuminates to indicate that power is being applied to the cable modem

2 **DS** (Downstream)—Illuminates to indicate that the cable modem is locked onto the downstream signal(s). The DS LED blinks to indicate that the cable modem is scanning for the downstream signal

3 **US** (Upstream)—Illuminates to indicate the upstream connection is operational, blinks to indicate that upstream calibration is in progress and during registration with the system. Off when the modem is off-line.

4 **ONLINE**—Illuminates when the cable modem is registered on the network and fully operational

5 **LINK**—Off when no Ethernet/USB device is present, illuminates to indicate that an Ethernet or USB device is connected, and blinks to indicate that data is being transferred between the PC and the cable modem

Note: After the cable modem is successfully registered on the network, the **POWER** (LED 1), **DS** (LED 2), **US** (LED 3), and **ONLINE** (LED 4) indicators illuminate continuously to indicate that the cable modem is online and fully operational.

Back Panel Description

The following illustration describes the back panel components of the DPC3010 and EPC3010 DOCSIS 3.0 cable modems.
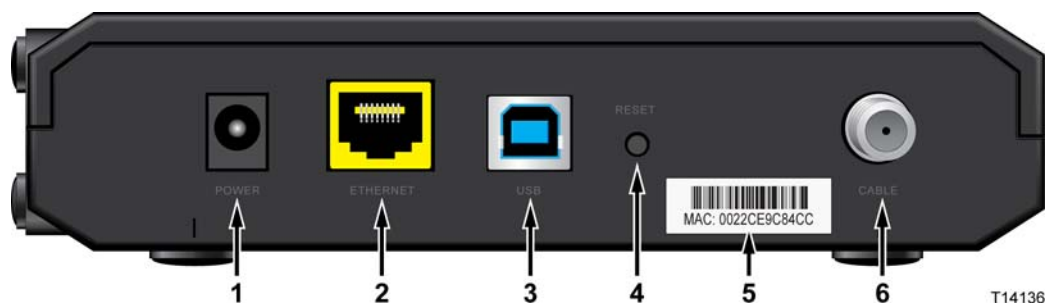
1. **POWER**—Connects the cable modem to the 12 VDC output of the AC power adapter that is provided with your cable modem. Only use the AC power adapter and power cord that is provided with your cable modem

2. **ETHERNET**—Bridged RJ-45 Gigabit Ethernet port connects to the Ethernet port on your PC. This port also supports 10/100BASE-T connections

3. **USB**—USB 2.0 port connects to the USB port on your PC

   Note: The optional USB port may not be present on all modems.

4. **RESET**—Reset-to-Default Momentary Switch (Factory Reset)

   Note: This button is for maintenance purposes only. Do not use unless told to do so by your service provider.

5. **MAC Address Label**—Displays the MAC address of the cable modem

6. **CABLE**—F-Connector connects to an active cable signal from your service provider

   ⚠ **CAUTION:**

   Avoid damage to your equipment. Only use the AC power adapter and power cord that is provided with your cable modem.

What Are the System Requirements for Internet Service?

To ensure that your cable modem operates efficiently for high-speed Internet service, verify that all of the Internet devices on your system meet or exceed the following minimum hardware and software requirements.

Note: You will also need an active cable input line and an Internet connection.

Minimum System Requirements for a PC

- A PC with a Pentium MMX 133 processor or greater

- 32 MB of RAM

- Web browsing software

- CD-ROM drive

Minimum System Requirements for Macintosh

- MAC OS 7.5 or later

- 32 MB of RAM

System Requirements for an Ethernet Connection

- A PC with Microsoft Windows 95 operating system (or later) with TCP/IP protocol installed, or an Apple Macintosh computer with TCP/IP protocol installed

- An active 10/100BASE-T Ethernet network interface card (NIC) installed

System Requirements for a USB Connection

- A PC with Microsoft Windows 98SE, ME, 2000, XP, or Vista operating system

- A master USB port installed in your PC

How Do I Set Up My High-Speed Internet Access Account?

Before you can use your cable modem, you need to have a high-speed Internet access account. If you do not have a high-speed Internet access account, you need to set up an account with your local service provider. Choose one of the two options in this section.

I Do Not Have a High-Speed Internet Access Account

If you do *not* have a high-speed Internet access account, your service provider will set up your account and become your Internet Service Provider (ISP). Internet access enables you to send and receive e-mail, access the World Wide Web, and receive other Internet services.

You will need to give your service provider the following information:

- The serial number of the modem

- The Media Access Control (MAC) address of the modem

These numbers appear on a bar code label located on the cable modem. The serial number consists of a series of alphanumeric characters preceded by **S/N**. The MAC address consists of a series of alphanumeric characters preceded by **MAC**. The following illustration shows a sample bar code label.

Write down these numbers in the space provided here.

Serial Number _____

MAC Address _____

I Already Have an Existing High-Speed Internet Access Account

If you have an existing high-speed Internet access account, you must give your service provider the serial number and the MAC address of the cable modem. Refer to the serial number and MAC address information listed previously in this section.

Where Is the Best Location for My Cable Modem?

The ideal location for your cable modem is where it has access to outlets and other devices. Think about the layout of your home or office, and consult with your service provider to select the best location for your cable modem. Read this user guide thoroughly before you decide where to place your cable modem.

Consider these recommendations:

- Position your PC and cable modem so that they are located near an AC power outlet.

- Position your PC and cable modem so that they are located near an existing cable input connection to eliminate the need for an additional cable outlet. There should be plenty of room to guide the cables away from the modem and the PC without straining or crimping them.

- Airflow around the cable modem should not be restricted.

- Choose a location that protects the cable modem from accidental disturbance or harm.

How Do I Mount the Cable Modem on the Wall?

Before You Begin

Before you begin, choose an appropriate mounting place. The wall can be made of cement, wood, or drywall. The mounting location should be free of obstructions on all sides, and the cables should be able to easily reach the cable modem without strain. Leave sufficient clearance between the bottom of the cable modem, and any flooring or shelving underneath, to allow access to cabling. In addition, leave enough slack in all cables so that the cable modem can be removed for any required maintenance without disconnecting the cables. Also, verify that you have the following items:

■ Two wall anchors for #8 x 1-inch screws

■ Two #8 x 1-inch pan head sheet metal screws

■ Drill with a 3/16-inch wood or masonry bit

■ A copy of the wall-mounting illustrations shown on the following pages

Mounting Instructions

You can mount the DPC3010 and EPC3010 cable modem directly on a wall using two wall anchors, two screws, and the mounting slots on the bottom of the modem. The modem can be mounted vertically or horizontally. Mount the modem as shown in the following illustration.
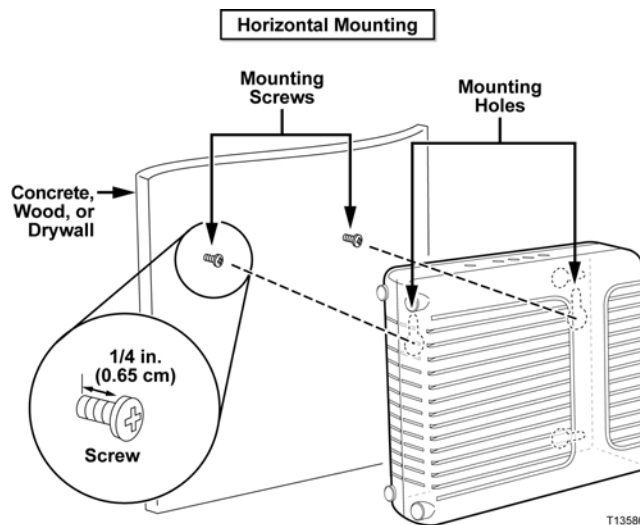
Location and Dimensions of the Wall-Mounting Slots

The following illustration shows the location and dimensions of the wall-mounting slots on the bottom of the modem. Use the information on this page as a guide for mounting your modem to the wall.

DPC3010 Wall Mount Template
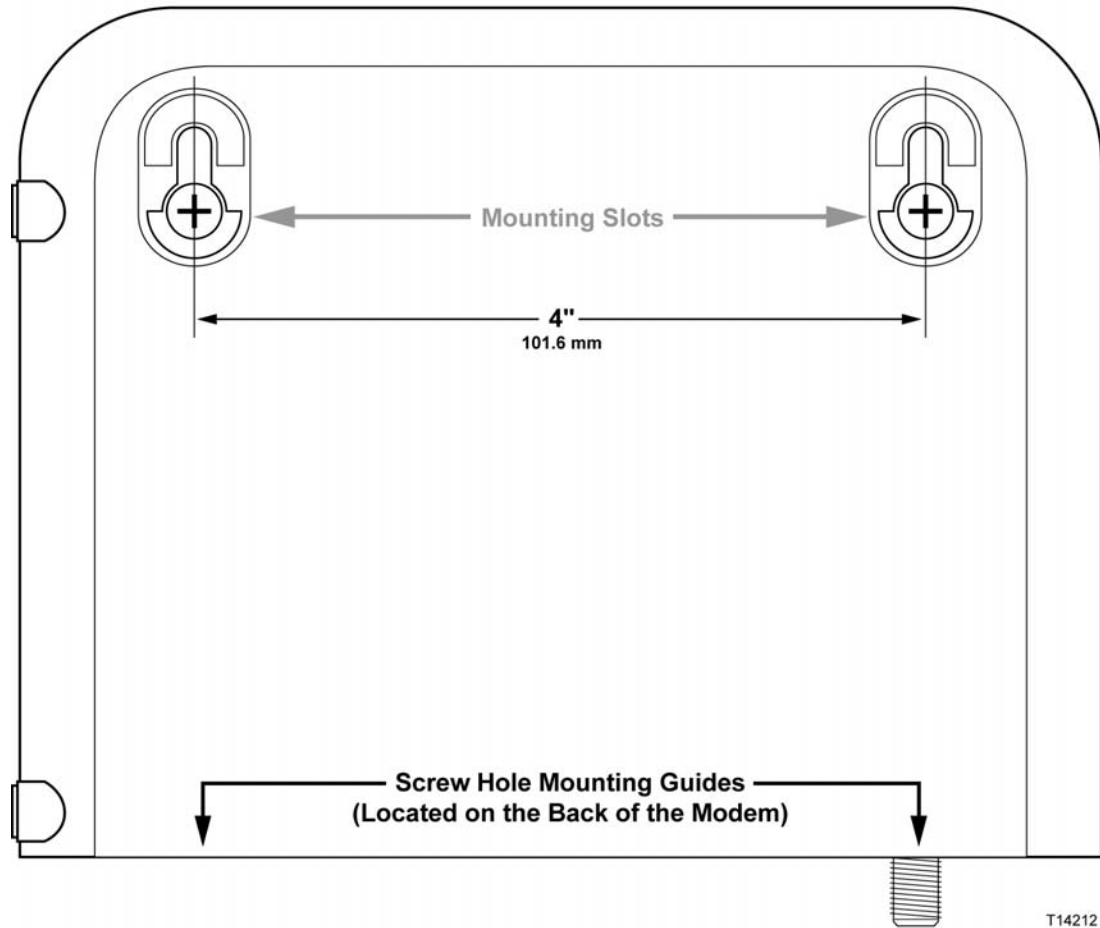
Important: This graphic is not drawn to scale.

Wall Mounting Instructions

Complete these steps to mount the modem to the wall.

1   Locate the place where you want to mount the modem to the wall.

2   Hold the modem level against the wall and at an angle so that the screw hole mounting guides are facing up and against the wall.

3   Lay a pencil, pen, or other marking tool into each guide and mark the place on the wall where you want to drill the mounting holes.

4   Using a drill with a 3/16-inch bit, drill two holes at the same height and 4 inches apart.

5   Are you mounting the cable modem into a drywall or concrete surface where a wooden stud is not available?

   ■ If **yes**, drive the anchor bolts into the wall and then go to step 6.

   ■ If **no**, go to step 6.

6   Install the mounting screws into the wall or the anchor bolts, as appropriate, and leave a gap of about 1/4-inch between the screw head and the wall.

7   Verify that no cables or wires are connected to the cable modem.

8   Lift the cable modem into position. Slip the large end of both mounting slots (located on the back of the modem) over the mounting screws, and then slide the modem down until the narrow end of the keyhole slot contacts the shaft of the screw.

   Important: Verify that the mounting screws securely support the modem before you release the unit.

9   Connect the cables and wires to the modem.

How Do I Connect My Devices to Use the Internet?

You can use your cable modem to access the Internet, and you can share that Internet connection with other Internet devices in your home or office. Sharing one connection among many devices is called networking.

Connecting and Installing Internet Devices

You must connect and install your cable modem to access the Internet. Professional installation may be available. Contact your local service provider for further assistance.

To connect devices

The following diagram illustrates one of the various networking options that are available to you.
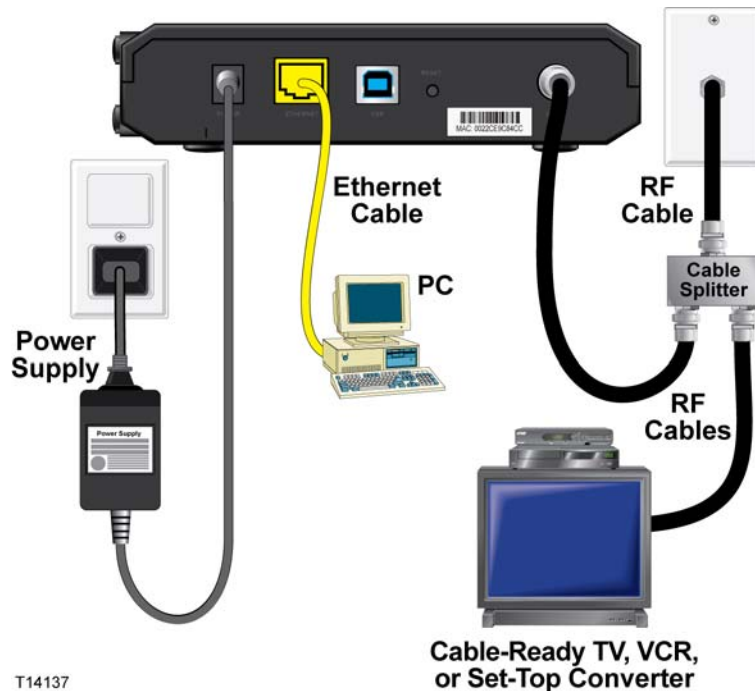
Connecting the Cable Modem for High-Speed Data Service

The following installation procedure ensures proper setup and configuration for the cable modem.

1 Choose an appropriate and safe location to install the cable modem (close to a power source, an active cable connection, your PC—if using high-speed Internet, and your telephone lines—if using VoIP).

> ⚠ **WARNING:**
>
> - **To avoid personal injury or damage to your equipment, follow these steps in the exact order shown.**
>
> - **Wiring and connections must be properly insulated to prevent electrical shock.**
>
> - **Disconnect power from the modem before attempting to connect to any device.**

2 Power off your PC and other networking devices; then, unplug them from the power source.

3 Connect the active RF coaxial cable from your service provider to the coax connector labeled **CABLE** on the back of the modem.

   Note: To connect a TV, DHCT, set-top box, or VCR from the same cable connection, you will need to install a cable signal splitter (not included). Always check with your service provider before using a splitter as a splitter may degrade the signal.

4 Connect your PC to the cable modem using either of the following methods:

   - **Ethernet Connection**: Locate the yellow Ethernet cable, connect one end of the Ethernet cable to the Ethernet port on your PC, and then connect the other end to the yellow **ETHERNET** port on the back of the modem.

     Note: To install more Ethernet devices than ports provided, use an external multi-port Ethernet switch(es).

   - **USB Connection:** Locate the blue USB cable, connect one end of the cable to an available **USB** port on your PC, and then connect the other end of the cable to the blue **USB** port on the back of the modem.

     Important: When using a USB connection, you need to install USB drivers on your PC. For assistance, go to *Installing USB Drivers* (on page 24).

   Note: You can connect two separate PCs to the cable at the same time by connecting one PC to the Ethernet port and one PC to the USB port. However, do not connect your PC to both the Ethernet Port and the USB ports at the same time.

5 Locate the AC power adapter provided with your cable modem. Insert the barrel-shaped DC power connector (attached by a thin pair of wires to the AC power adapter) into the black **POWER** connector on the back of the modem. Then, plug the AC power cord into an AC outlet to power up the cable modem. The cable modem will perform an automatic search to locate and sign on to the broadband data network. This process typically takes up to 2-5 minutes. The modem will be ready for use when the **POWER, DS, US,** and **ONLINE** LED status indicators on the front panel stop blinking and remain ON continuously.

6 Plug in and power on your PC and other home network devices. The modem **LINK** LED on the cable modem corresponding to the connected devices should be ON or BLINKING.

7 Once the cable modem is online, most Internet devices will have immediate Internet access.

Note: If your PC does not have Internet access, refer to the *How Do I Configure TCP/IP Protocol?* section of **Frequently Asked Questions** (on page 26) for information on how to configure your PC for Internet access. For Internet devices other than PCs, refer to the DHCP or IP Address configuration section of the User Guide or Operations Manual for those devices. Also verify that you correctly completed the procedures in **Installing USB Drivers** (on page 24).

Installing USB Driver

To install USB drivers, your PC must be equipped with a USB network interface and a Microsoft Windows 2000 or Windows XP operating system. This section contains instructions for installing the USB drivers for the cable modem.

The USB drivers needed for your cable modem are located in the Roof direcdtory of the **Installation CD** provided with your cable modem.

Note: If you are not using the USB interface, skip this section.

Installing USB Drivers

The USB driver installation procedures are different for each operating system. Follow the appropriate instructions in this section for your operating system.

Installing USB Drivers

1   Insert the **Installation CD** into the CD-ROM drive of your PC.

2   Make sure the power is connected to your cable modem and that the **POWER** LED status indicator on the front panel of the cable modem illuminates solid green.

3   Connect the USB cable to your computer's USB port. Then, connect the other end of the USB cable to the USB port on the gateway.

4   Click **Next** in the Found New Hardware Wizard window.

5   Select **Search for a suitable driver for my device (recommended)** in the Found New Hardware Wizard window, and then click **Next**.

6   Select **CD-ROM drives** in the Found New Hardware Wizard window, and then click **Next**.

7   Click **Next** in the Found New Hardware Wizard window. The system searches for the driver file for your hardware device.

8   After the system finds the USB driver, the Digital Signature Not Found window opens and displays a confirmation message to continue the installation.

9   Click **Yes** to continue the installation. The Found New Hardware Wizard window reopens with a message that the installation is complete.

10   Click **Finish** to close the Found New Hardware Wizard window. The USB drivers are installed on your PC, and your USB devices are ready for use.

11   Try to access the Internet. If you cannot access the Internet, go to *Frequently Asked Questions* (on page 26). If you still cannot access the Internet, contact your service provider for further assistance.

Installing USB Drivers on Windows XP Systems

1 Insert the **USB Cable Modem Driver Installation Disk** into the CD-ROM drive of your PC.

2 Wait until the **ONLINE** LED status indicator on the front panel of the cable modem illuminates solid green.

3 Select **Install from a list or specific location (Advanced)** in the Found New Hardware Wizard window, and then click **Next**.

4 Select **Search removable media (floppy, CD-ROM)** in the Found New Hardware Wizard window, and then click **Next**.

5 Click **Continue Anyway** in the Hardware Installation window to continue the installation. The Found New Hardware Wizard window reopens with a message that the installation has finished.

6 Click **Finish** to close the Found New Hardware Wizard window. The USB drivers are installed on your PC, and your USB devices are ready for use.

7 Try to access the Internet. If you cannot access the Internet, go to *Frequently Asked Questions* (on page 26). If you still cannot access the Internet, contact your service provider for further assistance.

Frequently Asked Questions

Q. How Do I Configure TCP/IP Protocol?

A. To configure TCP/IP protocol, you need to have an Ethernet Network Interface Card (NIC) with TCP/IP communications protocol installed on your system. TCP/IP is a communications protocol used to access the Internet. This section contains instructions for configuring TCP/IP on your Internet devices to operate with the cable modem in Microsoft Windows or Macintosh environments.

TCP/IP protocol in a Microsoft Windows environment is different for each operating system. Follow the appropriate instructions in this section for your operating system.

Configuring TCP/IP on Windows 95, 98, 98SE, or ME Systems

1 Click **Start**, select **Settings**, and choose **Control Panel**.

2 Double-click the **Network** icon in the Control Panel window.

3 Read the list of installed network components under the **Configuration** tab to verify that your PC contains the TCP/IP protocol/Ethernet adapter.

4 Is TCP/IP protocol listed in the installed network components list?

- If **yes**, go to step 7.
- If **no**, click **Add**, click **Protocol**, click **Add**, and then go to step 5.

5 Click **Microsoft** in the Manufacturers list.

6 Click **TCP/IP** in the Network Protocols list, and then click **OK**.

7 Click the **TCP/IP Ethernet Adapter** protocol, and then choose **Properties**.

8 Click the **IP Address** tab, and then select **Obtain an IP address automatically**.

9 Click the **Gateway** tab and verify that these fields are empty. If they are not empty, highlight and delete all information from the fields.

10 Click the **DNS Configuration** tab, and then select **Disable DNS**.

11 Click **OK**.

12 Click **OK** when the system finishes copying the files, and then close all networking windows.

13 Click **YES** to restart your computer when the System Settings Change dialog box opens. The computer restarts. The TCP/IP protocol is now configured on your PC, and your Ethernet devices are ready for use.

14 Try to access the Internet. If you cannot access the Internet, contact your service provider for further assistance.

Configuring TCP/IP on Windows 2000 Systems

1 Click **Start**, select **Settings**, and choose **Network and Dial-up Connections**.

2 Double-click the **Local Area Connection** icon in the Network and Dial-up Connections window.

3 Click **Properties** in the Local Area Connection Status window.

4 Click **Internet Protocol (TCP/IP)** in the Local Area Connection Properties window, and then click **Properties**.

5 Select both **Obtain an IP address automatically** and **Obtain DNS server address automatically** in the Internet Protocol (TCP/IP) Properties window, and then click **OK**.

6 Click **Yes** to restart your computer when the Local Network window opens. The computer restarts. The TCP/IP protocol is now configured on your PC, and your Ethernet devices are ready for use.

7 Try to access the Internet. If you cannot access the Internet, contact your service provider for further assistance.

Configuring TCP/IP on Windows XP Systems

1 Click **Start**, and depending on your Start menu setup, choose one of the following options:

- If you are using the Windows XP Default Start Menu, select **Connect to**, choose **Show all connections**, and then go to step 2.

- If you are using the Windows XP Classic Start Menu, select **Settings**, choose **Network Connections**, click **Local Area Connection**, and then go to step 3.

2 Double-click the **Local Area Connection** icon in the LAN or High-Speed Internet section of the Network Connections window.

3 Click **Properties** in the Local Area Connection Status window.

4 Click **Internet Protocol (TCP/IP)**, and then click **Properties** in the Local Area Connection Properties window.

5 Select both **Obtain an IP address automatically** and **Obtain DNS server address automatically** in the Internet Protocol (TCP/IP) Properties window, and then click **OK**.

6 Click **Yes** to restart your computer when the Local Network window opens. The computer restarts. The TCP/IP protocol is now configured on your PC, and your Ethernet devices are ready for use.

7 Try to access the Internet. If you cannot access the Internet, contact your service provider for further assistance.

Configuring TCP/IP on Macintosh Systems

1 Click the **Apple** icon in the upper-left corner of the Finder. Scroll down to **Control Panels**, and then click **TCP/IP**.

2 Click **Edit** on the Finder at the top of the screen. Scroll down to the bottom of the menu, and then click **User Mode**.

3 Click **Advanced** in the User Mode window, and then click **OK**.

4 Click the Up/Down selector arrows located to the right of the Connect Via section of the TCP/IP window, and then click **Using DHCP Server**.

5 Click **Options** in the TCP/IP window, and then click **Active** in the TCP/IP Options window.

Note: Make sure that the **Load only when needed option** is *unchecked*.

6 Verify that the **Use 802.3** option located in the upper-right corner of the TCP/IP window is unchecked. If there is a check mark in the option, uncheck the option, and then click **Info** in the lower-left corner.

7 Is there a Hardware Address listed in this window?

- If **yes**, click **OK**. To close the TCP/IP Control Panel window, click **File**, and then scroll down to click **Close**. You have completed this procedure.

- If **no**, you must power off your Macintosh.

8 With the power off, simultaneously press and hold down the **Command (Apple)**, **Option**, **P**, and **R** keys on your keyboard. Keeping those keys pressed down, power on your Macintosh but do not release these keys until you hear the Apple chime at least three times, then release the keys and let the computer restart.

9 When your computer fully reboots, repeat steps 1 through 7 to verify that all TCP/IP settings are correct. If your computer still does not have a Hardware Address, contact your authorized Apple dealer or Apple technical support center for further assistance.

Q. How Do I Renew the IP Address on My PC?

A. If your PC cannot access the Internet after the cable modem is online, it is possible that your PC did not renew its IP address. Follow the appropriate instructions in this section for your operating system to renew the IP address on your PC.

Renewing the IP address on Windows 95, 98, 98SE, and ME Systems

1 Click **Start**, and then click **Run** to open the Run window.

2 Type **winipcfg** in the Open field, and click **OK** to execute the winipcfg command. The IP Configuration window opens.

3 Click the down arrow to the right of the top field, and select the Ethernet adapter that is installed on your PC. The IP Configuration window displays the Ethernet adapter information.

4 Click **Release**, and then click **Renew**. The IP Configuration window displays a new IP address.

5 Click **OK** to close the IP Configuration window, you have completed this procedure.

Note: If you cannot access the Internet, contact your service provider for further assistance.

Renewing the IP Address on Windows NT, 2000, or XP Systems

1 Click **Start**, and then click **Run**. The Run window opens.

2 Type **cmd** in the Open field and click **OK**. A window with a command prompt opens.

3 Type **ipconfig/release** at the C:/ prompt and press **Enter**. The system releases the IP address.

4 Type **ipconfig/renew** at the C:/ prompt and press **Enter**. The system displays a new IP address.

5 Click the **X** in the upper-right corner of the window to close the Command Prompt window. You have completed this procedure.

   Note: If you cannot access the Internet, contact your service provider for further assistance.

Q. What if I don't subscribe to cable TV?

A. If cable TV is available in your area, data service may be made available with or without subscribing to cable TV service. Contact your local service provider for complete information on cable services, including high-speed Internet access.

Q. How do I arrange for installation?

A. Call your service provider to inquire about professional installation. A professional installation ensures proper cable connection to the modem and to your PC, and it ensures the proper configuration of all hardware and software settings. Contact your service provider for more information about installation.

Q. How does the cable modem connect to my computer?

A. The cable modem connects to the USB port or to the 1000/100BASE-T Ethernet port on your PC. If you want to use an Ethernet interface, Ethernet cards available from your local PC or office supply retailer, or from your service provider.

Q. After my cable modem is connected, how do I access the Internet?

A. Your local service provider becomes your Internet Service Provider (ISP). They offer a wide range of services including e-mail, chat, news, and information services. Your service provider will provide the software you will need.

Q. Can I watch TV and surf the Internet at the same time?

A. Absolutely! If you subscribe to cable television service, you can watch TV and use your cable modem at the same time by connecting your TV and your cable modem to the cable network using an optional cable signal splitter.

Q. Can I run more than one device on the modem?

A. Yes. If your service provider permits, a single cable modem can support up to 63 Ethernet devices utilizing user-supplied Ethernet hubs or routers that you can purchase at your local PC or office supply retailer. Another user at your location can simultaneously connect to the USB port on the cable modem. Contact your service provider for further assistance.

Common Troubleshooting Issues

I don't understand the front panel status indicators

See *Front Panel LED Status Indicator Functions* (on page 32), for more detailed information on front panel LED status indicator operation and function.

The cable modem does not register an Ethernet connection

- Verify that your computer has an Ethernet card and that the Ethernet driver software is properly installed. If you purchase and install an Ethernet card, follow the installation instructions very carefully.

- Verify the status of the front panel status indicator lights.

The cable modem does not register an Ethernet connection after connecting to a hub

If you are connecting multiple PCs to the cable modem, you should first connect the modem to the uplink port of the hub using the correct crossover cable. The LINK LED of the hub will illuminate continuously.

The cable modem does not register a cable connection

- The modem works with a standard 75-ohm RF coaxial cable. If you are using a different cable, your cable modem will not function properly. Contact your service provider to determine whether you are using the correct cable.

- Your NIC card or USB interface may be malfunctioning. Refer to the troubleshooting information in the NIC or USB documentation.

Tips for Improved Performance

Check and Correct

If your cable modem does not perform as expected, the following tips may help. If you need further assistance, contact your service provider.

- Verify that the plug to your cable modem AC power is properly inserted into an electrical outlet.

- Verify that your cable modem AC power cord is not plugged into an electrical outlet that is controlled by a wall switch. If a wall switch controls the electrical outlet, make sure the switch is in the **ON** position.

- Verify that the **ONLINE** LED status indicator on the front panel of your cable modem is illuminated.

- Verify that your cable service is active and that it supports two-way service.

- Verify that all cables are properly connected, and that you are using the correct cables.

- Verify that your TCP/IP is properly installed and configured if you are using the Ethernet connection.

- Verify that you have followed the procedures in *Installing USB Drivers* (on page 24), if you are using the USB connection.

- Verify that you have called your service provider and given them the serial number and MAC address of your cable modem.

- If you are using a cable signal splitter so that you can connect the cable modem to other devices, remove the splitter and reconnect the cables so that the cable modem is connected directly to the cable input. If the cable modem now functions properly, the cable signal splitter may be defective and may need to be replaced.

- For best performance over an Ethernet connection, your PC should be equipped with a Gigabit Ethernet card.

Front Panel LED Status Indicator Functions

Initial Power Up, Calibration, and Registration

The following chart illustrates the sequence of steps and the corresponding appearance of the cable modem front panel LED status indicators during power-up, calibration, and registration on the network. Use this chart to troubleshoot the power up, calibration, and registration process of your cable modem.

Note: After the cable modem completes step 8 (Registration Complete), the modem proceeds immediately to step 9, Normal Operations. See the table in *Normal Operations* (on page 33).

Front Panel LED Status Indicators During Initial Power-Up, Calibration, and Registration								
Step	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Front Panel Indicator	**Power Up**	**Self Test**	**Downstream Scan**	**Downstream Signal Lock**	**Ranging**	**Requesting IP Address**	**Registering**	**Registration Complete**
1 POWER	On	On	On	On	On	On	On	On
2 DS	Blinks	On 1 sec	Blinks	On	On	On	On	On
3 US	Blinks	On 1 sec	Off	Off	Blinks	On	On	On
4 ONLINE	Blinks	On 1 sec	Off	Off	Off	Off	Blinks	On
5 LINK	Off	On 1 sec	Off - When no devices are connected to the Ethernet or USB ports On - When devices are connected to the Ethernet or USB ports Blinks - When data activity is present					On

Normal Operations

The following table illustrates the appearance of the cable modem front panel LED status indicators during normal operations.

Front Panel LED Status Indicators During Normal Operations		
Step	**9**	
Front Panel Indicator	**Normal Operations**	
1	**POWER**	On
2	**DS**	On
3	**US**	On
4	**ONLINE**	On
5	**LINK**	ON - When a single device is connected to either the Ethernet or USB port and no data is being sent to or from the modem BLINKS - When only one Ethernet or USB device is connected and data is being transferred between the consumer premise equipment (CPE) and the cable modem OFF - When no devices are connected to either the Ethernet or USB ports **Notes:** ▪ When both Ethernet and USB devices are connected to the modem at the same time, and data is being transferred through only one of the devices (Ethernet or USB), the LINK LED status indicator illuminates continuously. ▪ Whenever data is being sent through *both* data ports (Ethernet and USB) simultaneously, the indicator blinks as described above.

Special Conditions

The following table describes the appearance of the cable modem front panel LED status indicators during special conditions to show that you have been denied network access.

Front Panel LED Status Indicators During Special Conditions	
Front Panel Indicator	**Network Access Denied**
1 **POWER**	On
2 **DS**	Blinking 2 times per second
3 **US**	Blinking 2 times per second
4 **ONLINE**	Blinking 2 times per second
5 **LINK**	ON - When a single device is connected to either the Ethernet or USB port and no data is being sent to or from the modem BLINKS - When only one Ethernet or USB device is connected and data is being transferred between the consumer premise equipment (CPE) and the cable modem OFF - When no devices are connected to either the Ethernet or USB ports **Notes:** ▪ When both Ethernet and USB devices are connected to the modem at the same time, and data is being transferred through only one of the devices (Ethernet or USB), the LINK LED status indicator illuminates continuously. ▪ Whenever data is being sent through *both* data ports (Ethernet and USB) simultaneously, the indicator blinks as described above

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For Information

If You Have Questions

If you have technical questions, call Cisco Services for assistance. Follow the menu options to speak with a service engineer. Use the following table to find the center in your area.

Region	Assistance Centers	Telephone and Fax Numbers
North America South America Central America	Atlanta, Georgia United States	**Technical Support** For *Digital Broadband Delivery System* products only, call: ▪ Toll-free: 1-800-283-2636 ▪ Local: 770-236-2200 ▪ Fax: 770-236-2488 For all products *other than* Digital Broadband Delivery System, call: ▪ Toll-free: 1-800-722-2009 ▪ Local: 678-277-1120 ▪ Fax: 770-236-2306 **Customer Service** ▪ Toll-free: 1-800-722-2009 ▪ Local: 678-277-1120 ▪ Fax: 770-236-5477
Europe	European Technical Assistance Center (EuTAC), Belgium	**Product Information** ▪ Telephone: 32-56-445-444 **Technical Support** Telephone: 32-56-445-197 or 32-56-445-155 Fax: 32-56-445-061
Asia-Pacific	Hong Kong, China	**Technical Support** Telephone: 011-852-2588-4745 Fax: 011-852-2588-3139
Australia	Sydney, Australia	**Technical Support** Telephone: 011-61-2-8446-5374 Fax: 011-61-2-8446-8015
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