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Ubee Interactive[®] DOCSIS 3.0 Cable Modem Model: U10C035



User Guide

Version 10_30_10

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1 Safety Guidelines

The following information provides safety guidelines for anyone installing and maintaining the U10C035 cable modem. Read all safety instructions in this guide before attempting to unpack, install, operate, or connect power to this product. Follow all instruction labels on the device itself.

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water. Never spill any form of liquid on or into this product. Do not use liquid cleaners or aerosol cleaners. Use a soft dry cloth for cleaning.
- Do not insert any sharp object into the product's module openings or empty slots. Doing so may accidentally damage its parts.
- Only use the power adapter supplied with the device. Do not attach the power supply cable on building surfaces or floorings.
- Do not place heavy objects on top of the device.
- Set the power cable freely without any obstacle or heavy items piled on top of it. Refrain from abusing, stepping or walking on the cable. Do not place the device on an unstable stand or table; the device may drop and become damaged.
- To protect the equipment from overheating, do not block the slots and openings in the module housing that provides ventilation. Do not expose this device to direct sunlight. Do not place any hot devices close to this device, as it may degrade or cause damage to it.
- Exercise caution when installing or modifying telephone lines. Never install telephone wiring during inclement weather conditions (i.e., storm).
- Electrostatic discharge (ESD) can permanently damage semiconductor devices. Always follow ESDprevention guidelines for equipment handling and storage.

1.1 Eco-Environmental Statements

The following eco-environmental statements apply to the U10C035 cable modem.

Packaging Collection and Recovery Requirements:

Countries, states, localities, or other jurisdictions may require that systems be established for the return and/or collection of packaging waste from the consumer, or other end user, or from the waste stream. Additionally, reuse, recovery, and/or recycling targets for the return and/or collection of the packaging waste may be established. For more information regarding collection and recovery of packaging and packaging waste within specific jurisdictions, contact Ubee Interactive at www.ubeeinteractive.com.

2 Introduction

Welcome to the Ubee family of data networking products. This document provides instructions on how to connect and use the Ubee U10C035 Cable Modem. The U10C035 Cable Modem provides high-speed access to the Internet using an active Internet connection provided by your cable service provider.

2.1 General Features

The cable modem includes the following features:

- Two-way design allows the cable modem to send and receive data over the cable television network.
- Data Over Cable Service Interface Specification (DOCSIS[™]) 3.0 certification ensures interoperability with DOCSIS compliant cable operators.
- Cable bandwidth allows up to 4 bonded downstream channels and 4 bonded upstream channels, allowing data rates of up to 152 megabits per second (Mbps)* downstream and up to 108 Mbps* upstream, which is faster than traditional DOCSIS 2.0 cable modems, integrated services digital network (ISDN), or asymmetric digital subscriber line (ADSL).
- Using the cable line means that the cable modem is always on, always connected, and does not tie up your phone lines.

*Note: The following causes may affect the connection speed.

- Computer specification, including available RAM space and processor speed.
- Software applications that may be using computer's resources.
- Network traffic depending on the time of day.
- Max data rate set by your Cable Service Provider based on your service tier.

2.2 Device Specifications

Interface

- RF Interface: External F-Connector
- CPE Interface: 10/100/1000 Base Ethernet RJ45

Downstream

- Frequency Range: 88 MHz ~ 1002 MHz
- Modulation: 64 / 256 QAM
- Maximum Data Rate 4DS: 171 Mbps (152 Mbps)
- RF Input/Output Power: -15 to +15 dBmV
- Input Impedance: 75 Ω
- Channel Bandwidth: 6 MHz

Upstream

- Frequency Range: 5 MHz ~ 42 MHz
- Modulation: QPSK, 8, 16, 32, 64 QAM, 128 QAM (S-CDMA only)
- Maximum Data Rate 4 US: 122 Mbps (108 Mbps)

RF Output Power

- TDMA /ATDMA:
 - +8 to +54 dBmV (32QAM, 64QAM) ATDMA only
 - +8 to +55 dBmV (8QAM, 16QAM)
 - +8 to +58 dBmV (QPSK)
- S-CDMA:
 - +8 to +53 dBmV (all modulations)

Network Management

- SNMP v1/v2/v2c and v3 agent Built-In
- Telnet
- Web UI
- IPv4 and IPv6 support

Physical Specifications

- Dimensions: (8.44" (W) x 6.48"(D) x 1.69" (H)
- Power: 12V/1A (Energy Star V begin Jan-2010)
- Power Consumption: < 10W(Full load)
- Input Power: 100-120VAC, 50-60Hz
- LEDs: Power, Send, Receive, Sync, Ready

Certifications

- Safety: UL 60950; CE/ FCC Class B
- Others: RoHS, WEEE

Standards

DOCSIS 3.0/2.0/1.x Certified

Environment Conditions

- Operating temp: 0° C to 40° C (32° F to 104° F)
- Humidity: 5~95% (non-condensing)
- Storage temp: -40° C to 70° C (-40° F to 158° F)

P & E Witness Testing – approved by Comcast

2.3 Package Contents

The U10C035 product package contains the following:



2.4 Minimum Requirements

The following are the system requirements for computers connecting to the cable modem and for using the web interface of the cable modem.

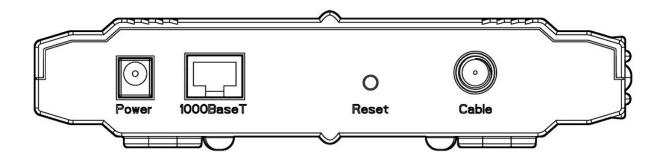
PC – Minimum System Requirements

Processor	300Mhz
Operating System	Windows 2000 pro, Windows XP
Memory	128 MB RAM
Hard Drive	125 MB free space
Disk Drive	CD-ROM drive
Email Client	Outlook Express 5.5/6
Internet Browser	Internet Explorer version 5.5, 6 (sp1+sp2)
Computer Interface Ethernet card	Ethernet based connection (Network Interface Card) that can support 10/100/1000Mbps connection rates
Screen Display	SVGA display 800x600x256 colors or greater

Apple Mac - Minimum System Requirements

Processor	Power PC 300Mhz +
Operating System	Mac OS 9.0+ (including OSX)
Memory	64 MB RAM
Hard Drive	150 MB free space
Disk Drive	CD-ROM drive
Email Client	Mac Mail
Internet Browser	Safari 1.2 +
Computer Interface	Ethernet based connection (Network Interface Card) that can support 10/100/1000Mbps connection rates
Screen display	SVGA display 800x600x256 colors or greater

2.5 Back Panel Connectors



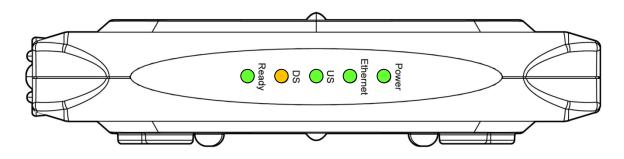
Power	This is where you plug in the included power adapter. Remember to use only the power adapter that came with the cable modem.			
1000BaseT	This is where you plug in the included Ethernet cable. The other end connects to the Ethernet port on the PC or NIC.			
Reset	Allows you to power-cycle the cable modem. This function does NOT reset to factory defaults. Use the device web interface or settings in the CM Configuration File to reset CM to factory defaults.			
Cable	This is where you connect the coaxial cable (not included) that leads to the cable splitter (not included) or the cable wall outlet.			

2.6 Cable Modem LEDs

This section describes the functions of the cable modem's LEDs and connectors. **Important**: U10C035 cable modems manufactured after January 2010 use the blue and green LED color combination. Cable modems in the field or those manufactured prior to January 2010 use the orange and green color combination. Be sure to use the table for your specific cable modem.

- ï U10C035 with ORANGE and GREEN LEDs: (page 9)
- ï U10C035 with BLUE and GREEN LEDs: (page 10)

2.6.1 U10C035 with ORANGE and GREEN LEDs:



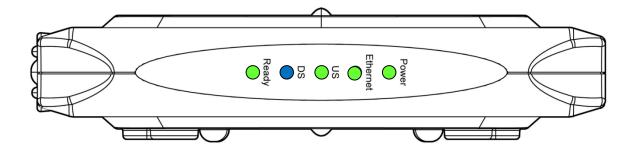
Note: The above LED pattern indicates Online Ready (Green), 2 to 4 Bonded Downstream Channels Being Used (Orange) for Increased Speed to the Internet/Cable Network, 1 Upstream Channel (Green), 10/100/1000Mbps Ethernet (Green), and Power ON (Green).

	ED Name		DS		US			
Provisioning) State	Ready	single	bonded	single	bonded	Ethernet	Power
Driver ir	nit	off		off		off	off	on
DS scan	ning	off	ł	olink		off		on
DS lock	ed	off		on		off		on
US rang	ing	off	on		blink			on
US rang	ed	off		on		on		on
IP Init & Reg (& Firmware		blink		on		on	Depends on Ethernet	on
	Network Access Enabled	on	on	on	on	on	status	on
Operational	Network Access Disabled	off	on	on	on	on		on

Cable interface traffic (network access enabled)	on	on	on	on	on	depends on Ethernet status	on
Ethernet connected	depends on provisioning state on on				on		
Ethernet traffic		depends on provisioning state blink on					

- GREEN Ethernet LED indicates 10/100/1000 Mbps speed has been negotiated.
- LED flashing indicates network traffic on the active port.
- LED dark indicates no connectivity.

2.6.2 U10C035 with BLUE and GREEN LEDs:



Note: The above LED pattern indicates Online Ready (Green), 2 to 4 Bonded Downstream Channels Being Used (Blue) for Increased Speed to the Internet/Cable Network, 1 Upstream Channel (Green), 1000Mbps Ethernet (Green), and Power ON (Green).

l l	ED Name			DS		US		
Provisioning	State	Ready	single	bonded	single	bonded	Ethernet	Power
Driver init		off		off		off	off	on
DS scanning		off	ł	link		off		on
DS locked		off		on		off		on
US ranging		off		on]	olink		on
US ranged		off		on		on	depends on	on
IP Init & Reg (& Firmware		blink		on		on	Ethernet status	on
Operational	Network Access Enabled	on	on	on	on	on		on

Network Access Disabled	off	on	on	on	on		on
Cable interface traffic (network access enabled)	on	on	on	on	on	depends on Ethernet status	on
Ethernet connected	depends on provisioning state				on	on	
Ethernet traffic		depends on provisioning state blink on				on	

- GREEN Ethernet LED indicates 10/100/1000Mbps speed has been negotiated.
- LED flashing indicates network traffic on the active port.
- LED dark indicates no connectivity.

3 Web-Based Device Management Utility

Use this chapter to access and use the U10CO35 web management utility.

3.1 PC Requirements

Be certain that your PC adheres to the following requirements. Refer to page 7 for more information on system requirements:

Supports TCP/IP, Supports DHCP, Web browser installed

3.2 Connect the Device

Use the following procedure to connect the U10CO35 cable modem.

- 1. Connect the power adapter that is included with the product package to the U10CO35 and to the power outlet.
- Connect one end of a network cable to your computer's Ethernet port. Connect the other end to the 100BaseT port on the U10CO35.
- 3. Turn on your computer.

3.3 Access the Web Interface

Use the following procedure to access the web interface.

- 1. From the computer, launch an internet browser.
- 2. In the internet browser, enter the following address and press <Enter/Return>: http://192.168.100.1

Note: You may also access the web interface using the cable/RF IP address, offered to the modem via DHCP during registration.

3. The Cable Modem Information screen, shown below, displays key information regarding the device.

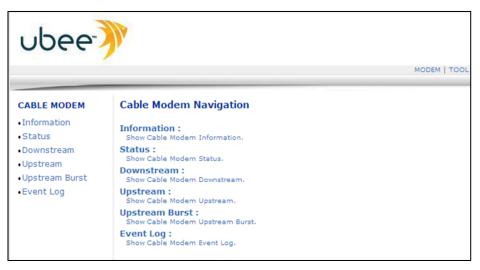
ubee				
Login Factory default username/password is"user"	Cable Modem Information Cable Modem : DOCSIS 1.0/1.1/2.0/3.0 Compliant MAC Address : 00:23:4E:D0:D3:F8 Serial Number : 00234ED0D3F8 Boot Code Version : 6.1.1c			
	Software Version : 3.10.1203 Hardware Version : 1.38 CA Key : Installed			

4. Click **Login** on the left side of the screen. In the Login pop-up window that displays, enter the login credentials as shown below:

Enter Net	work Password
?	Please type your user name and password.
IJ	Site: 192.168.100.1
	Realm
	User Name
	Password
	Save this password in your password list
	OK Cancel

Admin (Privileged) Account:	Username: admin	Password: cableroot
Customer/User Account:	Username: user	Password: user

- 5. Click OK after entering the login. **Note**: The Web Interface page displays the message "401Unauthorized" when the username or password is incorrect.
- 6. The following navigation screen displays after logging in to the web interface. All menu functions for the web interface are explained in the following sections.

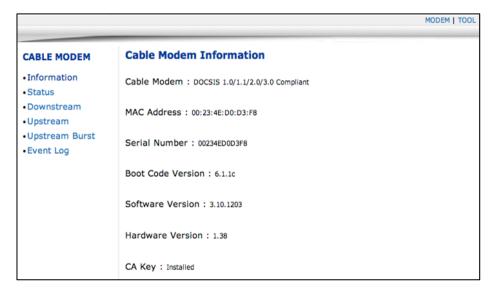


Note: The Tools menu (upper-right side of screen) is displayed only when the **admin** login is used to access the web interface.

3.4 Cable Modem Information

Use the following procedure to review key information about the cable modem.

- 1. Access the web interface. Refer to page 13 for instructions if required.
- 2. Click Information from the left-side of the screen.
- 3. A complete description of this screen is provided following the example below.



Item	Description	
Cable Modem	Indicates that the cable modem is Docsis1.0/Docsis1.1/Docsis2.0/Docsis3.0 compliant.	
MAC Address	Displays the MAC address of cable modem.	
Serial NumberDisplays the serial number of cable modem (usuall MAC address without ":" between octets).		
Boot Code Version	Displays the current boot code version.	
Software Version	Displays the current software version.	
Hardware Version	Displays the current hardware version.	
СА Кеу	Indicates if a Certificate Authority (CA) key is installed or not.	

3.5 Status

Use the following procedure to review the operational status of the cable modem.

- 1. Access the web interface. Refer to page 13 for instructions if required.
- 2. Click **Status** from the left-side of the screen.
- 3. Instructions are provided below the following example.

			MODEM TOOL
CABLE MODEM	Cable Modem Status		
Information Status	Item	Status	Comments
Downstream	Acquired Downstream Channel	621.001099 MHz	Locked
Upstream	Ranged Upstream Channel	32.000477 MHz	Success
Upstream Burst	Provisioning State	ок	Operational
• Event Log	Ethernet Link Status	Up	1000 Mbps/Full duplex
		Refresh	

Item	Description
Acquired a Downstream Channel	Displays the current downstream lock status. The Status field displays the downstream frequency. If the Comments field displays Locked, the cable modem is locked onto the frequency. Otherwise, it displays In Progress (the cable modem is trying to lock on to a frequency).
Ranged Upstream Channel	Displays the current upstream ranging status. The Status field displays the currently locked upstream frequency, and the Comments field displays the ranging status of an upstream lock.
Provisioning State	Displays the current cable modem state. The Status field displays OK, cable modem is operational. Otherwise, it displays In Progress. The Comments field displays the

	current provisioning state.
Ethernet Link Status	Displays the current link status of the Ethernet interface. The Status field displays Up/Down to indicate if there are devices (for example, PCs) connected to the Ethernet interface. The Comments field displays speed and the duplex type of connected devices.

3.6 Downstream

Е

Use the following procedure to review detailed information regarding the cable modem's acquisition and use of downstream channels from the service provider.

- 1. Access the web interface. Refer to page 13 for instructions if required.
- 2. Click **Downstream** from the left-side of the screen.
- 3. Instructions are provided below the following example.

					MODEM T
CABLE MODEM	Cable Modem Dov	vnstream			
 Information 					
Status		DS-1	DS-2	DS-3	DS-4
 Downstream 	Frequency	621000000	603000000	60900000	615000000
UpstreamUpstream Burst	Lock Status (QAM Lock/FEC Sync/MPEG Lock)	Y/Y/Y	Y/Y/Y	Y/Y/Y	Y/Y/Y
 Event Log 	Channel Id	1	1	1	1
	Modulation	256QAM	256QAM	256QAM	256QAM
	Symbol Rate (Msym/sec)	5.360537	5.360537	5.360537	5.360537
	Interleave Depth	I=32 J=4	I=32 J=4	I=32 J=4	I=32 J=4
	Power Level (dBmV)	-4.90	-4.66	-5.17	-5.10
	RxMER (dB)	37.09	36.39	37.09	37.09
	Correctable Codewords	18	0	1	0
	Uncorrectable Codewords	1478	1400	1487	1400
			Refresh		

Item	Description
Frequency	Displays the current cable modem downstream frequency (Hz).
Lock Status (QAM Lock/FEC Lock/MPEG Lock)	Displays the current cable modem downstream lock status. It contains three sub-items, QAM Lock, FEC Lock, and MPEG Lock.
Channel ID	Displays the current locked downstream channel ID.
Modulation	Displays the current locked downstream modulation type (QAM64/ QAM256).
Symbol Rate (Msym/sec)	Displays the current locked downstream symbol rate (QAM64 is 5.056941 Msym/sec, QAM256 is 5.360537 Msym/sec).
Interleave Depth	Displays the current locked downstream interleave characteristics. I is number of taps, and J is the increment.

Power Level (dBmV)	Displays the current locked downstream received power (dBmV).
RxMER (dB)	Displays the current locked downstream Modulation Error Rate (MER).
Correctable Codewords	This field displays R-S codewords received on this channel with correctable errors.
Uncorrectable Codewords	This field displays R-S codewords received on this channel with uncorrectable errors.
Refresh	Click to re-display the current state of information in this screen.

3.7 Upstream

Use the following procedure to review detailed information regarding the cable modem's use of upstream channels to the service provider.

- 1. Access the web interface. Refer to page 13 for instructions if required.
- 2. Click **Upstream** from the left-side of the screen.
- 3. Instructions are provided below the following example.

ABLE MODEM	Cable Modem L	Jpstream			
Information		US-1	US-2	US-3	US-4
Status	Channel Type	2.0	N/A	N/A	N/A
Downstream	Channel ID	6	N/A	N/A	N/A
Upstream Upstream Burst	Frequency (Hz)	32000000	N/A	N/A	N/A
• Event Log	Ranging Status	Success	N/A	N/A	N/A
	Modulation	64QAM	N/A	N/A	N/A
	Symbol Rate (KSym/sec)	5120	N/A	N/A	N/A
	Mini-Slot Size	4	N/A	N/A	N/A
	Power Level (dBmV)	35.93	N/A	N/A	N/A
	T1 Timeouts	0	0	0	0
	T2 Timeouts	0	0	0	0
	T3 Timeouts	0	0	0	0
	T4 Timeouts	0	0	0	0

Item	Description
Channel Type	Displays the current locked upstream channel type. It may be 1.0/2.0/mixed/3.0 according to collected UCDs.
Channel ID	Displays the current locked upstream channel ID.
Frequency (Hz)	Displays the current locked upstream frequency.
Ranging Status	Displays the current locked upstream ranging status (Other/Aborted/Retries Exceed/Success/Continue/T4 Timeout)

Modulation	Displays the current locked upstream modulation type (QPSK/ 8QAM /16QAM/ 32QAM/64QAM/128QAM/256QAM).
Symbol Rate (Ksym/sec)	Displays the current locked upstream symbol rate.
Mini-Slot Size	Displays the current locked upstream mini-slot.
Power Level (dBmV)	Displays the current locked upstream transmit power.
T1 Timeouts	Displays the number of timeouts waiting for a valid UCD from the CMTS.
T2 Timeouts	Displays the number of timeouts waiting for a maintenance broadcast from the CMTS.
T3 Timeouts	Displays the number of timeouts waiting for ranging request from the CMTS during initial maintenance.
T4 Timeouts	Displays the number of timeouts waiting for periodic maintenance request from the CMTS for unicast ranging opportunity.
Refresh	Click to re-display the current state of information in this screen.

3.8 Upstream Burst

Use the following procedure to review detailed information regarding the cable modem's upstream burst attributes.

- 1. Access the web interface. Refer to page 13 for instructions if required.
- 2. Click **Upstream Burst** from the left-side of the screen.
- 3. Instructions are provided below the following example.

						Ν	NODEM TOO
CABLE MODEM	Cable Modem Upstream B	urst					
 Information 							
Status							
 Downstream 			JS-1				
Upstream				Per Maint	Adv Short	Adv Long	Adv UGS
 Upstream Burst 		(1)		(4)	(9)	(10)	(11)
• Event Log	Modulation Type	QPSK					
	Differential Encoding	OFF	OFF	OFF	OFF	OFF	OFF
	Preamble Length	64	640	384	104	104	104
	Preamble Value Offset	652	0	0	724	724	724
	FEC Error Correction (T)	0	5	5	12	16	12
	FEC Codeword Information Bytes (k)	16	34	34	81	223	81
	Maximum Burst Size	0		-	11		
	Guard Time Size	8			8	8	8
	Last Codeword Length	FIX			SHORT	SHORT	SHORT
	Scrambler on/off	ON	ON	ON	ON	ON	ON

Note: Other Upstream channels are not shown in this guide, but may appear in the web interface.

Item	Description
	Displays the current modulation type (QPSK/16QAM/8QAM/32QAM/64QAM/128QAM) used for

Item	Description
	transmission of specific traffic types (maintenance, short packets, long packets, or unsolicited grants, such as those for voice traffic).
Differential Encoding	Displays the current differential encoding state (ON/OFF).
Preamble Length	Displays the current preamble length, 0-1536 (bits) used for synchronization.
Preamble Value Offset	Displays the current preamble value offset, 0-1534 (bits).
FEC Error Correction (T)	Displays the FEC (forward error correction): 0 to 16 (0 implies no FEC. The number of codeword parity bytes is 2*T).
FEC Codeword Information Bytes (k)	Displays the current FEC codeword information bytes. Fixed: 16 to 253 (assuming FEC on). Shortened: 16 to 253 (assuming FEC on).
Maximum Burst Size	Displays the maximum burst size, 0-255 (mini-slots) for data transmission
Guard Time Size	Displays the guard time size, 4-255 (symbols).
Last Codeword Length	Displays the last codeword length, FIX/SHORT.
Scrambler on/off	Displays the state of the scrambler, ON/OFF.
Refresh	Click to re-display the current state of information in this screen.

3.9 Event Log

Use the following procedure to review the event log generated by the cable modem. The event log captures all key behavioral activity of the cable modem.

- 1. Access the web interface. Refer to page 13 for instructions if required.
- 2. Click Event Log from the left-side of the screen.
- 3. Instructions are provided below the following example.

				MODEM TOOL
CABLE MODEM	Cable Modem	Event Log		
Information	First Time	Last Time	Priority	Description
Status Downstream Upstream	Time Not Established	Time Not Established	Warning (5)	MDD message timeout;CM- MAC=00:23:4e:d0:d3:f8;CMTS- MAC=00:01:5c:23:ea:01;CM- QOS=1.1;CM-VER=3.0;
Upstream Burst Event Log				
		Refre	sh Clear	Log

Item	Description	
Refresh	Update events in the log as they occur.	
Clear Log	Empty the event log.	

4 Tool Page

The Tool options of the web interface allow you to reset/power cycle the cable modem or perform a factory default.

1. Access the web interface. Refer to page 13 for instructions if required.

Important: You must log in using the admin account to use the Tool menu.

- 2. Click **Tool** from the top-right side of the screen.
- 3. Refer to the following sections for instructions on using the Tool options.

		MODEM TOOL
TOOL	Tool Navigation	
Reset Defaults Reset Modem	Reset Defaults : Allow users to reset modem to factory defaults	
	Reset Modem : Reset Modem	

4.1 Reset Defaults (Factory Defaults)

This option allows you to reset the cable modem and perform a factory default of the device by clearing all cached information stored in non-volatile memory. The reset restores the device to the default factory settings but does not change the current firmware version. The modem registration time to the service provider takes a few seconds longer than a modem reset since modem must re-scan all frequencies to find its downstream channels.

- 1. Access the web interface. Refer to page 13 for instructions if required. **Important**: You must log in using the **admin** account.
- 2. Click **Tool** from the top-right side of the screen.
- 3. Click **Reset Defaults** from the left side of the screen.

			MODEM TOOL
TOOL	Reset Defaults		
Reset Defaults			
Reset Modem	This page allows user to restore defaults, and Cable Modem will reset after pressing Apply button.		
	Restore Defaults	Yes	O No
		Apply	

Item	Description
	Choose Yes to perform a factory reset. Choose No to not perform a factory reset. Choose Apply to perform the action selected.

4.2 Reset Modem

This option allows you to reset the cable modem just as you would by power-cycling or performing an SNMP reset of the device. This reset does not perform a factory default. Original primary downstream information is retained so registration time is faster than the Reset Defaults option.

- 1. Access the web interface. Refer to page 13 for instructions if required. **Important**: You must log in using the **admin** account.
- 2. Click **Tool** from the top-right side of the screen.
- 3. Click **Reset Modem** from the left side of the screen.

			MODEM TOOL
TOOL	Reset Defaults		
Reset Defaults			
Reset Modem	This page allows user to restore defaults, and Cable Modem will reset after pressing Apply button.		
	Restore Defaults	Yes	💿 No
		Apply	

ltem	Description
Yes	Choose to perform a reset
Νο	Choose to not perform a reset
Apply	Choose Apply to perform the action chosen