



# Singlewire InformaCast Loudspeaker Amplifier (PoE) Operations Guide



Part #011407 Document Part #931277C for Firmware Version 11.6.3

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#### Operations Guide 931277C Part # 011407

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# **Revision Information**

Revision 931277C, which corresponds to firmware version 11.6.3, was released on October 31, 2016 and has the following changes:

- Updates Figure 2-6, "Using the Amplified Outputs—Low Power Mode with One Speaker"
- Updates Figure 2-7, "Using the Amplified Outputs—High Power Mode with One Speaker"
- Updates Figure 2-8, "Using the Amplified Outputs—High Power Mode with Two Speakers"
- Updates Figure 2-13, "Connections Behind the Port Cover"
- Updates Figure 2-14, "Connecting the Strobe"
- Updates Figure 2-15, "Connecting the Strobe"

# **Browsers Supported**

The following browsers have been tested against firmware version 6.5.0:

- Internet Explorer (version: 10)
- Firefox (also called Mozilla Firefox) (version: 23.0.1 and 25.0)
- Chrome (version: 29.0.1547.66 m)
- Safari (version: 5.1.7)

### Pictorial Alert Icons

GENERAL ALERT	General Alert This pictoral alert indicates a potentially hazardous situation. This alert will be followed by a hazard level heading and more specific information about the hazard.
	Ground This pictoral alert indicates the Earth grounding connection point.

### Hazard Levels

Danger: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This is limited to the most extreme situations.

Warning: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

Caution: Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It may also alert users against unsafe practices.

Notice: Indicates a statement of company policy (that is, a safety policy or protection of property).

• The safety guidelines for the equipment in this manual do not purport to address all the safety issues of the equipment. It is the responsibility of the user to establish appropriate safety, ergonomic, and health practices and determine the applicability of regulatory limitations prior to use. Potential safety hazards are identified in this manual through the use of words Danger, Warning, and Caution, the specific hazard type, and pictorial alert icons.

# 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. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as 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.
- 13. Prior to installation, consult local building and electrical code requirements.

# 14. WARNING: The Singlewire InformaCast Loudspeaker Amplifier (PoE) enclosure is not rated for any AC voltages!

GENERAL ALERT	Warning <i>Electrical Hazard:</i> This product should be installed by a licensed electrician according to all local electrical and building codes.
GENERAL ALERT	Warning <i>Electrical Hazard:</i> To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.
GENERAL ALERT	Warning The PoE connector is intended for intra-building connections only and does not route to the outside plant.

# Abbreviations and Terms

Abbreviation or Term Definition		
A-law	A standard companding algorithm, used in European digital communications systems to optimize, i.e., modify, the dynamic range of ar analog signal for digitizing.	
AVP	Audio Video Profile	
Cat 5	TIA/EIA-568-B Category 5	
DHCP	Dynamic Host Configuration Protocol	
LAN	Local Area Network	
LED	Light Emitting Diode	
Mbps	Megabits per Second.	
NTP	Network Time Protocol	
PBX	Private Branch Exchange	
PoE	Power over Ethernet (as per IEEE 802.3af standard)	
RTFM	Reset Test Function Management	
SIP	Session Initiated Protocol	
u-law	A companding algorithm, primarily used in the digital telecommunication	
UC	Unified Communications	
VoIP	Voice over Internet Protocol	

#### Chapter 1 Product Overview

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The CyberData SIP-enabled Singlewire InformaCast Loudspeaker Amplifier (PoE) (AC-Powered) provides an easy method for implementing an IP-based overhead paging system for both new and legacy installations.

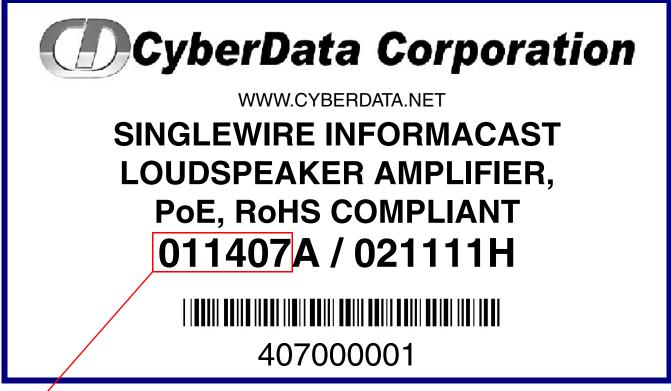
With up to 25 watts of driving power (802.3at), the Amplifier provides direct drive of a standard Horn speaker and supports a line-out connector for connection to an external amplifier. The interface is compatible with most SIP-based IP PBX servers that comply with the SIP RFC 3261. For non-SIP environments, the Singlewire InformaCast Loudspeaker Amplifier (PoE) can be configured to listen to multicast address and port number combinations to form paging zones.

# 1.1 How to Identify This Product

To identify the Singlewire InformaCast Loudspeaker Amplifier (PoE), look for a model number label similar to the one shown in Figure 1-1. Confirm the following:

The model number on the label should be 011407.

Figure 1-1. Model Number Label

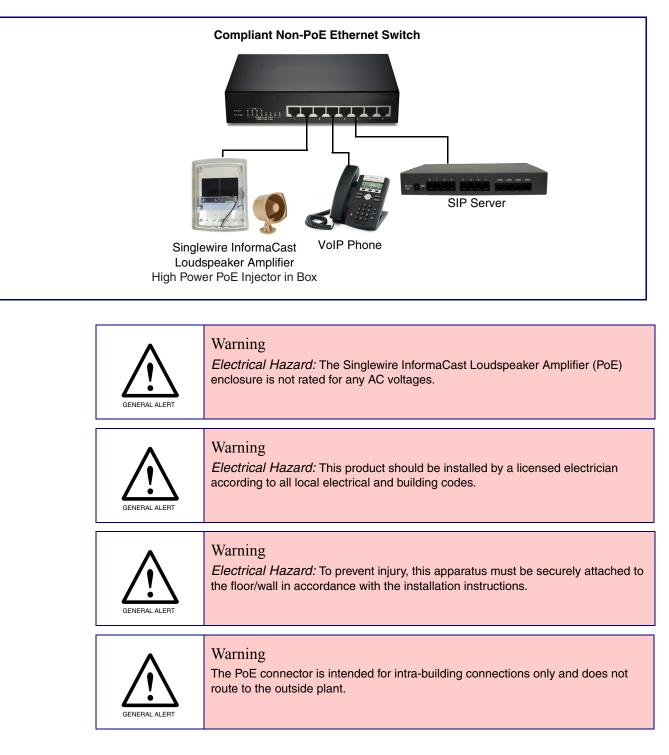


Model number

# 1.2 Typical System Installation

Figure 1-2 illustrates how the Singlewire InformaCast Loudspeaker Amplifier (PoE) is normally installed as part of a public address system.





# 1.3 Product Features

Singlewire InformaCast Features

- Dual registration for Singlewire and SIP
- Singlewire Informacast compatibility available. Includes support for Informacast resiliency
- Support both SIP and Singlewire InformaCast
- InformaCast compliant
- InformaCast CK compliant

#### SIP Features

- SIP-enhanced interoperability for hosted environments
- 9 user-uploadable page messages
- Support for security code access for SIP paging
- Autoprovisioning via HTTPS
- HTTPS web based configuration
- Higher Power PoE 802.3AT
- 802.11q VLAN tagging
- Configurable sense input for use with fault detection
- Configurable event generation for device health and status monitoring
- Optional direct connect RGB strobe kit connection
- Support for G.711 u-law, G.711 a-law, and G.722 codecs
- HTTP Command Interface
- 10 channel prioritized Multicast ports
- Built-in diagnostics
- Delayed page support
- Cisco SRST
- Packaged in a NEMA 3R/IP42-rated enclosure
- SIP and Simultaneous Multicast
- Dual-speed ethernet 10/100 Mbps
- Web-based configuration
- PoE 802.3at and 802.3af-enabled
- Line-in for background music
- Line-out connector
- DTMF controlled relay
- Direct 8 Ohm speaker drive
- User-uploadable tones and messages
- Digital and manual volume control
- Second SIP endpoint "Night Ringer"
- Autoprovisioning
- Auto-call voice message from input port sense

• Can support two horns

# 1.4 Supported Protocols

The Singlewire InformaCast Loudspeaker Amplifier (PoE) supports:

- SIP
- InformaCast Version 4.0 and greater
- Multicast
- HTTP and HTTPS web-based configuration

Provides an intuitive user interface for easy system configuration and verification of Singlewire InformaCast Loudspeaker Amplifier (PoE) operations.

• DHCP Client

Dynamically assigns IP addresses in addition to the option to use static addressing.

• TFTP Client

Facilitates hosting for the configuration file for Autoprovisioning.

- RTP
- RTP/AVP Audio Video Profile
- SPEEX
  - Audio Encodings PCMU (G.711 mu-law) PCMA (G.711 A-law) G.722 Packet Time 20 ms

# 1.5 Supported SIP Servers

The following link contains information on how to configure the Singlewire InformaCast Loudspeaker Amplifier (PoE) for the supported SIP servers:

http://www.cyberdata.net/connecting-to-ip-pbx-servers/

# 1.6 Specifications

Specifications		
Ethernet I/F	10/100 Mbps	
Protocol	InformaCast and/or SIP (RFC 3261)	
Power Input	PoE 802.3at or 802.3af	
Audio Output	802.3af - SPL 114 dB @ 1 meter <sup>a</sup>	
	802.3at - SPL 117 dB @ 1 meter <sup>a</sup>	
Line In:		
Input Signal Amplitudes	2.0 VPP maximum	
Input Impedance	10k Ohm	
Line Out:		
Output Signal Amplitudes	2.0 VPP maximum	
Output Level	+2dBm nominal	
Total Harmonic Distortion	0.5% maximum	
Output Impedance	10k Ohm	
Operating Temperature	-10° C to 50° C (14° F to 122° F)	
Payload Types	G.711 a-law, G.711 u-law, G.722	
Dimensions <sup>b</sup>	1.042 in. [26.5 mm] Length	
	3.295 in. [83.7 mm] Width	
	7.795 in. [198.0 mm] Height	
Weight	1.4 lbs. [0.63 kg]	
Boxed Weight	2.0 lbs. [0.90 kg]	
Part Number	011407	
Loudspeaker Part Number 011068		

#### Table 1. Specifications

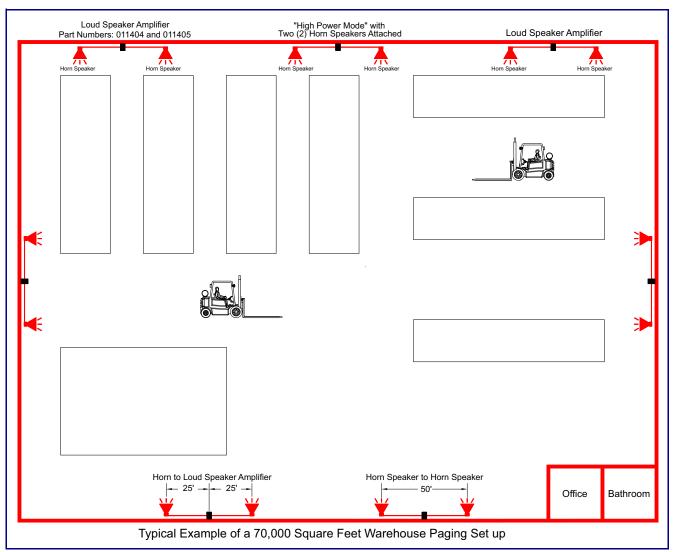
a.When used with the 011068 Mini Horn.

b. Dimensions are measured from the perspective of the product being upright with the front of the product facing you.

# 1.7 Typical Coverage

With one horn attached to Paging Amplifier under standard 802.3af PoE power, coverage is up to 5,000 square feet. With two horns attached to the Paging Amplifier under 802.3at PoE (high power), coverage is up to 10,000 square feet depending on ambient background noise levels.

# 1.8 Typical Warehouse Paging Setup

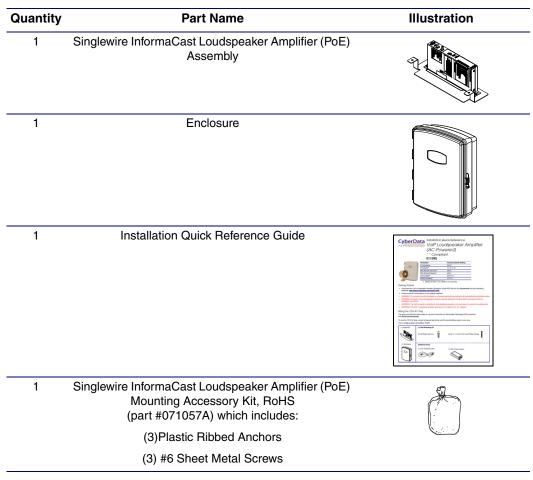


#### Figure 1-3. Typical Warehouse Paging Setup

# 2 Installing the Singlewire InformaCast Loudspeaker Amplifier (PoE)

# 2.1 Parts List

Table 2-1 illustrates the parts for each Singlewire InformaCast Loudspeaker Amplifier (PoE) and includes a kit for mounting.



#### Table 2-1. Parts List

# 2.2 Singlewire InformaCast Loudspeaker Amplifier (PoE) Setup

Set up and configure each Singlewire InformaCast Loudspeaker Amplifier (PoE) before you mount it.

CyberData delivers each Singlewire InformaCast Loudspeaker Amplifier (PoE) with the factory default values indicated in Table 2-2:

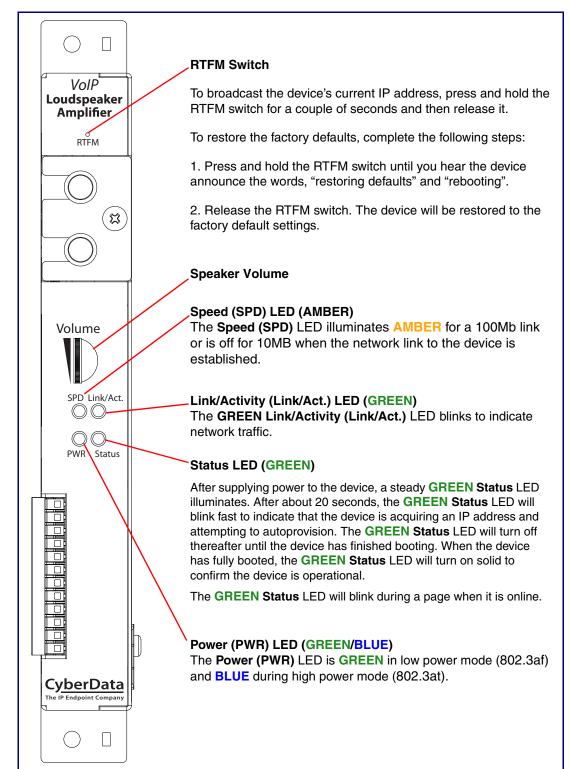
Parameter	Factory Default Setting	
IP Addressing	DHCP	
IP Address <sup>a</sup>	10.10.10	
Web Access Username	admin	
Web Access Password	admin	
Subnet Mask <sup>a</sup>	255.0.0.0	
Default Gateway <sup>a</sup>	10.0.0.1	

#### Table 2-2. Factory Default Settings—Default of Network

a. Default if there is not a DHCP server present.

## 2.2.1 Singlewire InformaCast Loudspeaker Amplifier (PoE) Components

Figure 2-4 shows the components of the Singlewire InformaCast Loudspeaker Amplifier (PoE).





# 2.2.2 NEMA Box Components of the Singlewire InformaCast Loudspeaker Amplifier (PoE)

Figure 2-5 shows all of the NEMA box components of the Singlewire InformaCast Loudspeaker Amplifier (PoE).

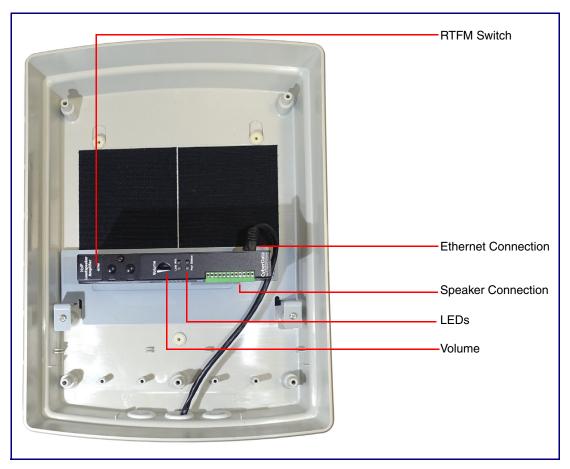


Figure 2-5. Loudspeaker Amplifier Components—PoE

## 2.2.3 Connecting the Singlewire InformaCast Loudspeaker Amplifier (PoE)

### 2.2.3.1 Using the Amplified Outputs

Low Power ModeThe following figure illustrate how to connect the Singlewire InformaCast Loudspeaker Amplifier<br/>(PoE) and use the amplified outputs in low power mode to one speaker or horn.

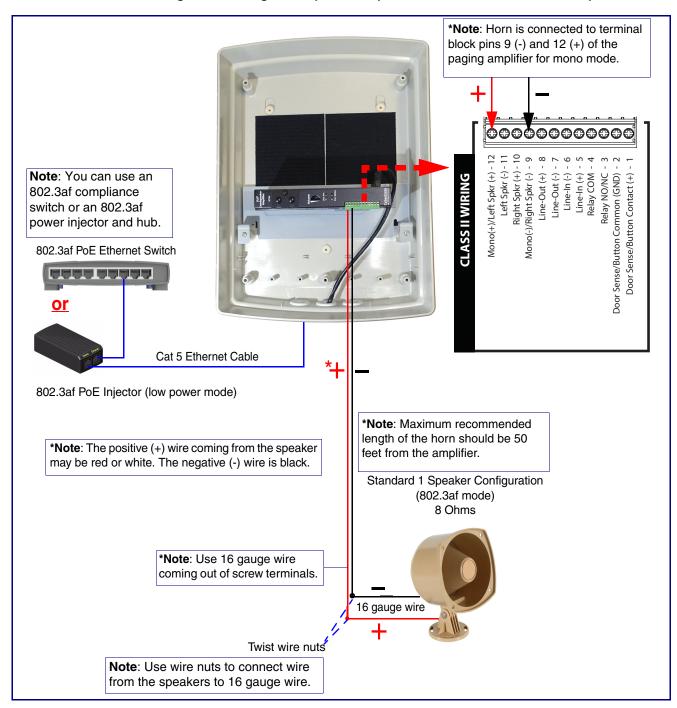


Figure 2-6. Using the Amplified Outputs—Low Power Mode with One Speaker

High Power Mode<br/>(One Speaker)The following figure illustrate how to connect the Singlewire InformaCast Loudspeaker Amplifier<br/>(PoE) and use the amplified outputs in high power mode to one speaker or horn.

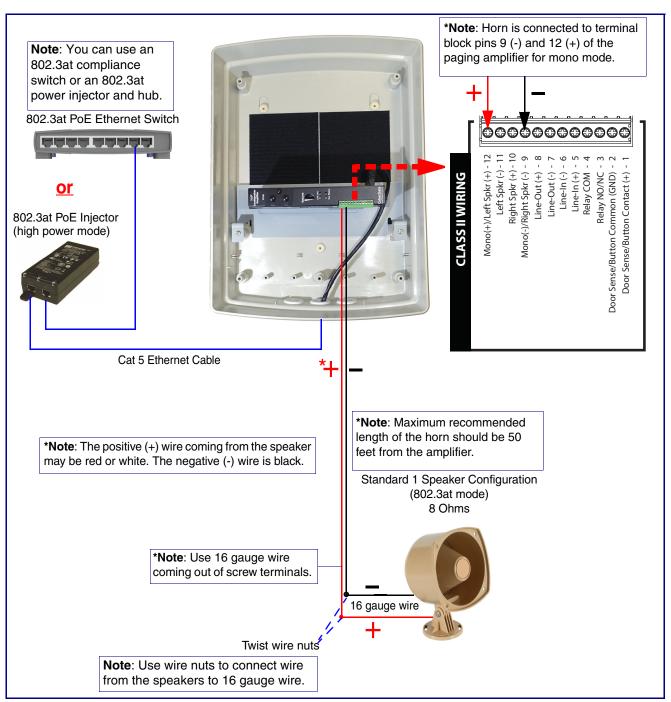
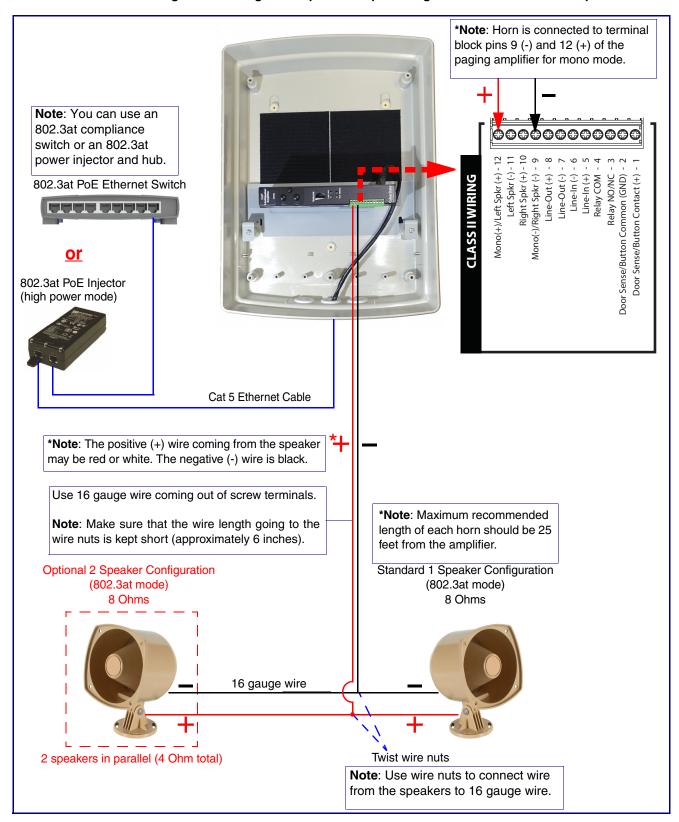


Figure 2-7. Using the Amplified Outputs—High Power Mode with One Speaker

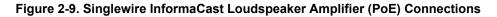
High Power ModeThe following figure illustrate how to connect the Singlewire InformaCast Loudspeaker Amplifier(Two Speakers)(PoE) and use the amplified outputs in high power mode to two speakers or horns.





### 2.2.4 Singlewire InformaCast Loudspeaker Amplifier (PoE) System Installation and Connection Options

The following figures show the connection options for the Singlewire InformaCast Loudspeaker Amplifier (PoE).



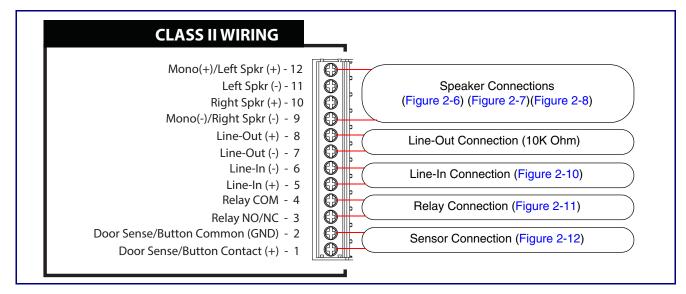
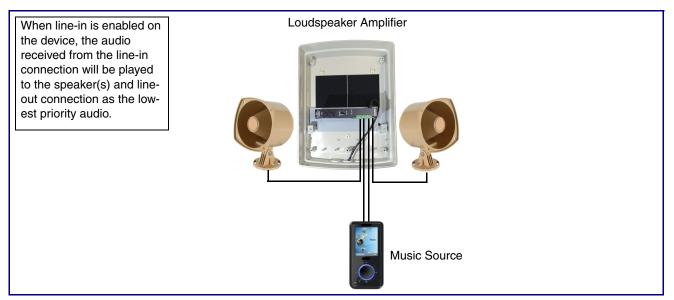


Figure 2-10. Line-In Connection





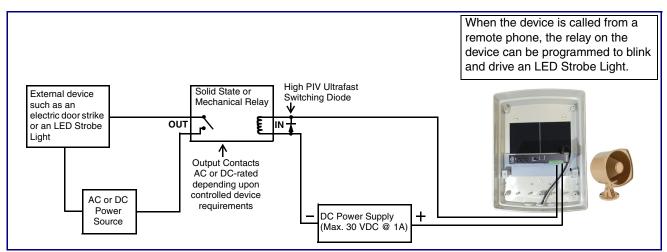
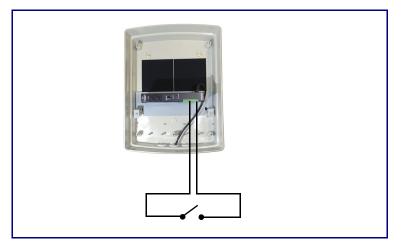
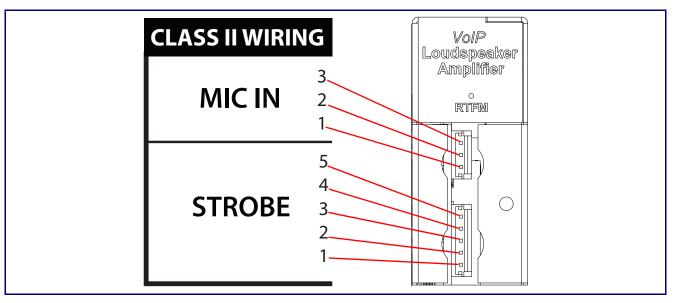


Figure 2-12. Sensor Connection



### 2.2.5 Strobe Connections Behind the Port Cover

See Figure 2-13 for the additional connection options for the Singlewire InformaCast Loudspeaker Amplifier (PoE).





See Table 2-3 for the descriptions of the connections behind the port cover.

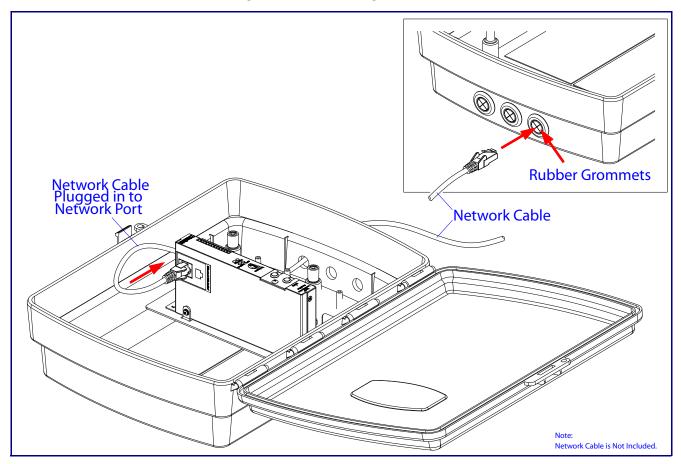
#### Table 2-3. Connections Behind the Port Cover

Name	Connection	Description
	J6-1	Microphone chassis ground connections
MIC IN	J6-2	Microphone positive input
	J6-3	Microphone negative input
Strobe Connect	tions	
Name	Connection	Description
	J9-1	Ground
	J9-2	Strobe positive power (+24V)
STROBE	J9-3	Ground
	J9-4	I2C data
	J9-5	I2C clock

## 2.2.6 Connecting the Strobe

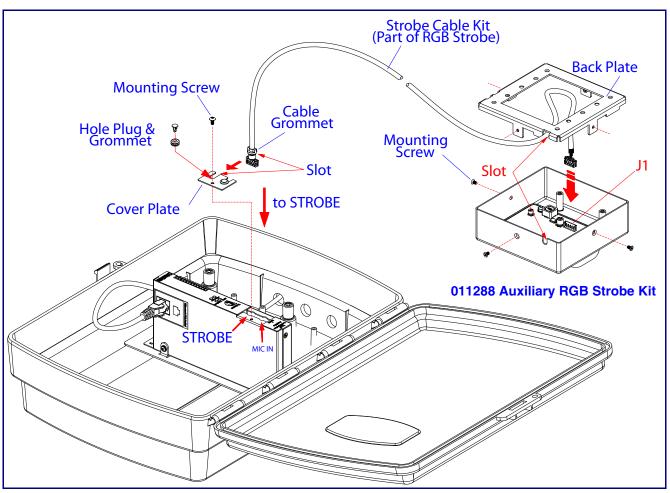
- 1. Insert the network cable through any available rubber grommet at the bottom of the enclosure. See Figure 2-14.
- 2. Connect the Network Cable to the Paging Amplifier. See Figure 2-14.

Figure 2-14. Connecting the Strobe



- 3. Remove the mounting screw to remove the cover plate. See Figure 2-15.
- 4. Remove the hole plug and grommet. See Figure 2-15.
- 5. Slide the cover plate through the slot on the cable grommet. See Figure 2-15.
- 6. Install the mounting screw to secure the cover plate. See Figure 2-15.

Figure 2-15. Connecting the Strobe



### 2.2.7 Singlewire InformaCast Loudspeaker Amplifier (PoE) Jumpers

See Figure 2-16 for the jumper locations.

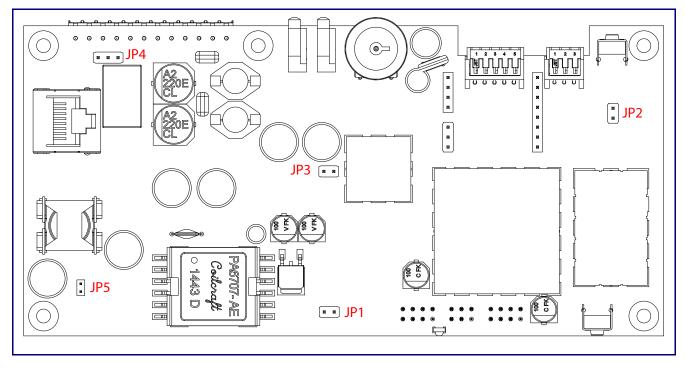


Figure 2-16. Jumper Locations

See Table 2-4 for the jumper descriptions.

#### Table 2-4. Jumper Descriptions

Jumper	Description
JP1	Reset—Factory Only
JP2	RTFM (not installed)
JP3	Audio Enable Jumper—Factory Only
JP4	Relay NO/NC (default to NO)—Factory Only
JP5	PoE IEEE 802.3at—Factory Only

### 2.2.8 Ethernet Connection

See Table 2-5 for details about the Singlewire InformaCast Loudspeaker Amplifier (PoE) connection.

Connection	Connection Details	Location
Ethernet	Use a RJ 45 cable.	Singlewire InformaCast Loudspeaker Amplifier (PoE)

### 2.2.9 Loudspeaker Type

Using the amplified output, the CyberData Singlewire InformaCast Loudspeaker Amplifier (PoE) supports the 011068 Loudspeaker or equivalent unamplified loudspeaker.



#### Figure 2-17. 011068 Loudspeaker

## 2.2.10 Cabling/Wiring

Using the amplified output, you may connect a 011068 loudspeaker or equivalent unamplified speaker to a SIP Loudspeaker Amplifier (PoE-powered) with good quality speaker wire that is 16 gauge and limited to 25 feet in length with two loudspeakers or 50 feet in length with one loudspeaker.

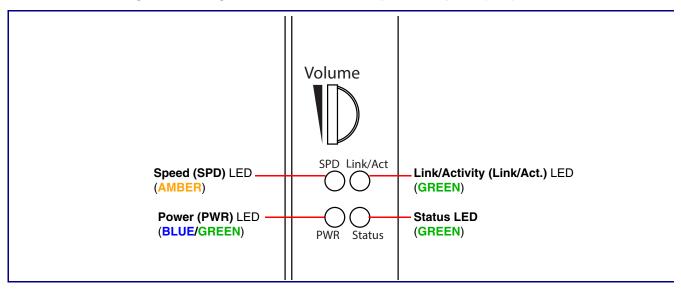
## 2.2.11 Confirm Operation

After connecting the device to the 802.3af compliant ethernet hub, use the LEDs on the device to confirm that the device is operational and linked to the network.

Table 2-6. Singlewire InformaCast Lou	idspeaker Amplifier (PoE) LEDs
---------------------------------------	--------------------------------

LED	Color	Function	
Power (PWR) BLUE/GREEN		The 802.3at power injector that is provided with the device should cause the <b>Power (PWR)</b> LED to illuminate <b>BLUE</b> to indicate that high power is available.	
		The <b>Power (PWR)</b> LED may illuminate <b>GREEN</b> if a low power mode (802.3af) power source is used (not included and sold separately).	
Status	GREEN	After supplying power to the device, a steady <b>GREEN Status</b> LED illuminates.	
		After about 20 seconds, the <b>GREEN Status</b> LED will blink fast to indicate that the device is acquiring an IP address and attempting to autoprovision. The <b>GREEN Status</b> LED will turn off thereafter until the device has finished booting. When the device has fully booted, the <b>GREEN Status</b> LED will turn on solid to confirm the device is operational.	
		The GREEN Status LED will blink during a page when it is online.	
Speed (SPD)	AMBER	The <b>Speed (SPD)</b> LED illuminates <b>AMBER</b> for a 100Mb link or is off for 10MB when the network link to the device is established.	
Link/Activity (Link/Act.)	GREEN	The Link/Activity (Link/Act.) GREEN LED blinks to indicate network traffic.	

#### Figure 2-18. Singlewire InformaCast Loudspeaker Amplifier (PoE) LEDs

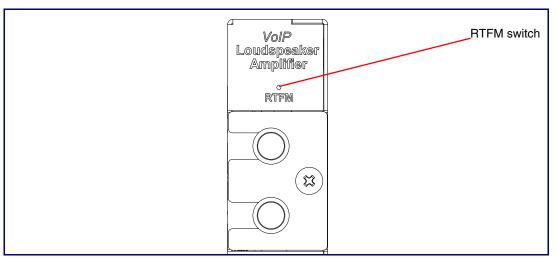


## 2.2.12 Confirm the IP Address and Test the Audio

#### 2.2.12.1 RTFM Switch

When the Singlewire InformaCast Loudspeaker Amplifier (PoE) is operational and linked to the network, use the Reset Test Function Management **(RTFM)** switch (Figure 2-19) on the Singlewire InformaCast Loudspeaker Amplifier (PoE) face to announce and confirm the Singlewire InformaCast Loudspeaker Amplifier (PoE)'s IP Address and test the audio to verify that it is working.

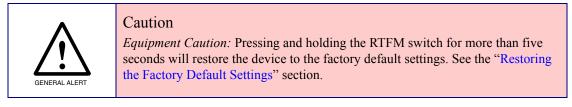




Announcing the IP To announce a Singlewire InformaCast Loudspeaker Amplifier (PoE)'s current IP address:

Address

• Press and hold the RTFM switch for a couple of seconds and then release it.



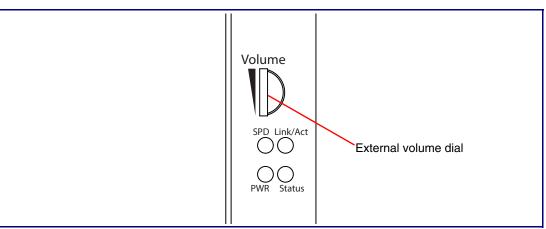
Restoring the Factory Default Settings To restore the factory default settings, complete the following steps:

- 1. Press and hold the RTFM switch until you hear the device announce the words, "restoring defaults" and "rebooting".
- 2. Release the RTFM switch. The device will be restored to the factory default settings.

### 2.2.13 Adjust the Volume

There are two ways to adjust the volume for the Singlewire InformaCast Loudspeaker Amplifier (PoE):

- The SIP Volume setting on the Device Configuration Page
- The external **Volume** dial (Figure 2-21) on the Singlewire InformaCast Loudspeaker Amplifier (PoE) face



#### Figure 2-20. External Volume Dial

#### 2.2.13.1 The SIP Volume Setting

To adjust the volume of the device with the **SIP Volume** setting on the **Device Configuration Page**, complete the following steps:

- 1. Go to the **Home Page**.
- 2. Select the **Device Configuration Page** page.
- 3. In the SIP Volume box, type a number between 0 (lowest) and 9 (highest).
- 4. Select Save.

#### 2.2.13.2 The Multicast Volume Setting

To adjust the **Multicast Volume** volume with the **Multicast Volume** setting on the **Device Configuration Page**, complete the following steps:

- 1. Go to the **Home Page**.
- 2. Select the Device Configuration Page.
- 3. In the Multicast Volume box, type a number between **0** (lowest) and **9** (highest).
- 4. Select Save.

#### 2.2.13.3 The Ring Volume Setting

To adjust the **Ring Volume** volume with the **Ring Volume** setting on the **Device Configuration Page**, complete the following steps:

- 1. Go to the Home Page.
- 2. Select the Device Configuration Page.
- 3. In the Multicast Volume box, type a number between **0** (lowest) and **9** (highest).
- 4. Select Save.

#### 2.2.13.4 The Sensor Volume Setting

To adjust the **Sensor Volume** volume with the **Sensor Volume** setting on the **Device Configuration Page**, complete the following steps:

- 1. Go to the **Home Page**.
- 2. Select the Device Configuration Page.
- 3. In the Sensor Volume box, type a number between 0 (lowest) and 9 (highest).
- 4. Select Save.

#### 2.2.13.5 External Volume Dial

To adjust the Singlewire InformaCast Loudspeaker Amplifier (PoE) volume with the external volume dial, complete the following steps:

- 1. Turn the external **Volume** dial (Figure 2-20) on the Singlewire InformaCast Loudspeaker Amplifier (PoE) face.
- **Note** For the lineout volume, the volume is fixed and the volume control is adjusted through an external amplifier.

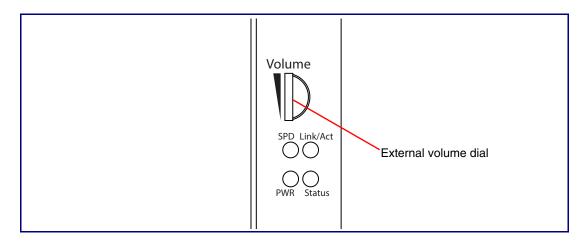


Figure 2-21. External Volume Dial

# 2.3 Configure the Singlewire InformaCast Loudspeaker Amplifier (PoE) Parameters

To configure the Singlewire InformaCast Loudspeaker Amplifier (PoE) online, use a standard web browser.

Configure each Singlewire InformaCast Loudspeaker Amplifier (PoE) and verify its operation *before* you mount it. When you are ready to mount an Singlewire InformaCast Loudspeaker Amplifier (PoE), refer to Appendix A, "Mounting the Intercom" for instructions.

### 2.3.1 Factory Default Settings

All Singlewire InformaCast Loudspeaker Amplifier (PoE)s are initially configured with the following default IP settings:

When configuring more than one Singlewire InformaCast Loudspeaker Amplifier (PoE), attach the Singlewire InformaCast Loudspeaker Amplifier (PoE)s to the network and configure one at a time to avoid IP address conflicts.

Parameter	Factory Default Setting	
IP Addressing	DHCP	
IP Address <sup>a</sup>	10.10.10.10	
Web Access Username	admin	
Web Access Password	admin	
Subnet Mask <sup>a</sup>	255.0.0.0	
Default Gateway <sup>a</sup>	10.0.0.1	

#### Table 2-7. Factory Default Settings

a. Default if there is not a DHCP server present.

# 2.3.2 Singlewire InformaCast Loudspeaker Amplifier (PoE) Web Page Navigation

Table 2-8 shows the navigation buttons that you will see on every Singlewire InformaCast Loudspeaker Amplifier (PoE) web page.

Web Page Item	Description
Home	Link to the <b>Home</b> page.
Device	Link to the <b>Device</b> page.
Network	Link to the <b>Network</b> page.
SIP	Link to go to the <b>SIP</b> page.
Multicast	Link to the <b>Multicast</b> page.
Sensor	Link to the <b>Sensor</b> page.
Audiofiles	Link to the <b>Audiofiles</b> page.
Events	Link to the <b>Events</b> page.
Autoprov	Link to the <b>Autoprovisioning</b> page.
Firmware	Link to the <b>Firmware</b> page.

#### Table 2-8. Web Page Navigation

## 2.3.3 Using the Toggle Help Button

The **Toggle Help** button allows you to see a short description of some of the settings on the webpage. To use the **Toggle Help** button, do the following:

1. Click on the Toggle Help button that is on the UI webpage. See Figure 2-22 and Figure 2-23.

Figure 2-22. Toggle/Help Button

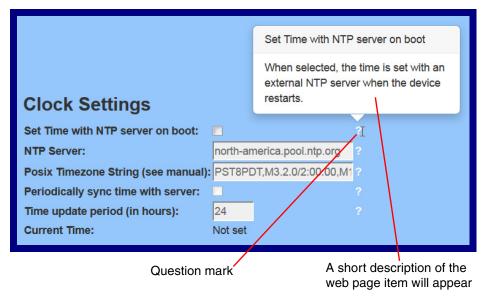
Toggle Help
-------------

2. You will see a question mark (?) appear next to each web page item that has been provided with a short description by the Help feature. See Figure 2-23.

Figure 2-23. Toggle Help Button and Question Marks

Clock Settings Set Time with NTP server on boot:		Question mark appears next to the web page items
NTP Server:	north-america.pool.ntp.org	web page nome
Posix Timezone String (see manual):	PST8PDT,M3.2.0/2:00:00,M1	
Periodically sync time with server:	■ 1/	
Time update period (in hours):	24 ?	
Current Time:	Not set	
Save Reboot		Toggle Help button

3. Move the mouse pointer to hover over the question mark (?), and a short description of the web page item will appear. See Figure 2-24.



#### Figure 2-24. Short Description Provided by the Help Feature

## 2.3.4 Log in to the Configuration Home Page

- 1. Open your browser to the Singlewire InformaCast Loudspeaker Amplifier (PoE) IP address.
- **Note** If the network does not have access to a DHCP server, the device will default to an IP address of 10.10.10.10.
- **Note** Make sure that the PC is on the same IP network as the Singlewire InformaCast Loudspeaker Amplifier (PoE).
- **Note** You may also download CyberData's VoIP Discovery Utility program which allows you to easily find and configure the default web address of the CyberData VoIP products.

CyberData's VoIP Discovery Utility program is available at the following website address:

#### http://www.cyberdata.net/assets/common/discovery.zip

- **Note** The device ships in DHCP mode. To get to the **Home** page, use the discovery utility to scan for the device on the network and open your browser from there.
- 2. When prompted, use the following default **Web Access Username** and **Web Access Password** to access the **Home Page** (Figure 2-25):

Web Access Username: admin

Web Access Password: admin

Installing the Singlewire InformaCast Loudspeaker Amplifier (PoE) 30 Log in to the Configuration Home Page

Figure 2-25. Home Page

-				-		11.61	
S	inglewi	re V3.	1 Pag	Ing	Am	pliti	er
	3		5				
Current Sta	itus	Admin Set	tings		Import Se	ttings	
Serial Number:	407100001	Username:	admin			file chosen	
Mac Address:	00:20:f7:03:6d:9a	Password:			Diotioom		
Firmware Version:	v11.6.3	Confirm Password	d:	_	Import Config		
IP Addressing:	DHCP						
IP Address:	10.10.0.77				Export Se	ttings	
Subnet Mask:	255.0.0.0	Singlewire	Status		Exportoc	lingo	
Default Gateway:							
DNS Server 1:	10.0.1.56	Boot Time: Current Time:	2016/08/09 10:27:44 2016/08/09 10:28:53		Export Config		
DNS Server 2:		IC Servers:	10.0.1.195				
SIP Mode:	Enabled	to servers.	10.0.1.196				
Multicast Mode:	Disabled	Configuration File	: InformaCastSpeaker.cfg				
Event Reporting:	Disabled	B'casts Accepted:					
Nightringer:	Disabled	B'casts Rejected:	0				
		B'casts Active:	0				
Primary SIP Server							
	Not registered	Save Reboot	Toggle Help				
Backup Server 1: Backup Server 2:							

- 3. On the Home page, review the setup details and navigation buttons described in Table 2-9.
- **Note** The question mark icon (?) in the following table shows which web page items will be defined after the **Toggle Help** button is pressed.

Web Page Item	Description
Admin Settings	
Username ?	The username to access the web interface. Enter up to 25 characters.
Password ?	The password to access the web interface. Enter up to 25 characters.
Confirm Password ?	Confirm the web interface password.
Current Status	
Serial Number	Shows the device serial number.
Mac Address	Shows the device Mac address.
Firmware Version	Shows the current firmware version.
IP Addressing	Shows the current IP addressing setting (DHCP or static).
IP Address	Shows the current IP address.
Subnet Mask	Shows the current subnet mask address.
Default Gateway	Shows the current default gateway address.
DNS Server 1	Shows the current DNS Server 1 address.
DNS Server 2	Shows the current DNS Server 2 address.
SIP Mode	Shows the current status of the SIP mode.
Multicast Mode	Shows the current status of the Multicast mode.
Event Reporting	Shows the current status of the Event Reporting mode.
Nightringer	Shows the current status of the Nightringer mode.
Primary SIP Server	Shows the current status of the Primary SIP Server.
Backup Server 1	Shows the current status of Backup Server 1.
Backup Server 2	Shows the current status of Backup Server 2.
Nightringer Server	Shows the current status of Nightringer Server.
Singlewire Settings	
Boot Time	Shows the boot time.
Current Time	Shows the current time.
IC Servers	Shows the InformaCast server IP addresses.
Configuration File	Shows the configuration file.
B'casts Accepted	Shows the number of B'casts accepted.
B'casts Rejected	Shows the number of B'casts rejected.
B'casts Active	Shows the number of active B'casts.
Import Settings	
Browse	Use this button to select a configuration file to import.

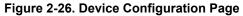
#### Table 2-9. Home Page Overview

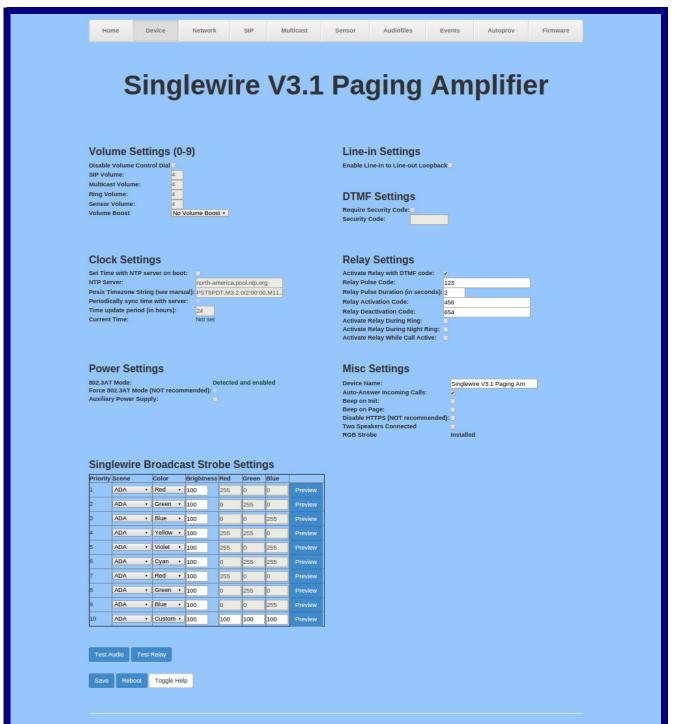
Web Page Item	Description
Import Config	After selecting a configuration file, click Import to import the configuration from the selected file. Then, click Save and Reboot to store changes.
Export Settings	
Export Config	Click Export to export the current configuration to a file.
	Click the Save button to save your configuration settings.
Save	Note: You need to reboot for changes to take effect.
Reboot	Click on the <b>Reboot</b> button to reboot the system.
Toggle Help	Click on the <b>Toggle Help</b> button to see a short description of some of the web page items. First click on the <b>Toggle Help</b> button, and you will see a question mark (?) appear next to some of the web page items.
	Move the mouse pointer to hover over a question mark to see a short description of a specific web page item.

## Table 2-9. Home Page Overview (continued)

## 2.3.5 Configure the Device

1. Click the Device menu button to open the Device page. See Figure 2-26.





- 2. On the **Device** page, you may enter values for the parameters indicated in Table 2-10.
- **Note** The question mark icon (?) in the following table shows which web page items will be defined after the **Toggle Help** button is pressed.

Web Page Item	Description
Volume Settings (0-9)	
Disable Volume Control Dial ?	Select this option to disable the volume control dial and enable digital volume control settings.
SIP Volume ?	Set the speaker volume for a SIP call. A value of 0 will mute the speaker during SIP calls.
Multicast Volume ?	Set the speaker volume for multicast audio streams. A value of 0 will mute the speaker during multicasts.
Ring Volume 🛜	Set the ring volume for incoming calls. A value of 0 will mute the speaker instead of playing the ring tone when Auto-Answer Incoming Calls is disabled.
Sensor Volume ?	Set the speaker volume for playing sensor activated audio. A value of 0 will mute the speaker during sensor activated audio.
Volume Boost: ? No Volume Boost +4dB	Set the Boost level to increase the volume output of the speaker. Using Volume Boost may introduce audio clipping and/or distortion. Boost is only recommended for use with volumes set to level 9.
Clock Settings	
Set Time with NTP Server on boot ?	When selected, the time is set with an external NTP server when the device restarts.
NTP Server ?	Use this field to set the address (in IPv4 dotted decimal notation or as a canonical name) for the NTP Server. This field can accept canonical names of up to 64 characters in length.
Posix Timezone String 🛜	See Section 2.3.5.1, "Time Zone Strings" for information about how to use the Posix Timezone String to specify time zone and daylight savings time where applicable. Enter up to 63 characters.
Periodically sync time with server ?	When selected, the time is periodically updated with the NTP server at the configured interval below.
Time update period (in hours) ?	The time interval after which the device will contact the NTP server to update the time. Enter up to 4 digits.
Current Time ?	Allows you to input the current time. (6 character limit)
Power Settings	
802.3AT Mode 🛜	This device automatically detects if it is plugged into an 802.3AT (also known as PoE Plus) power source. 802.3AT provides more power than older 802.3AT power sources and allows this speaker to play audio at higher volumes. If you are sure this speaker is connected to an 802.3AT power source, but it is not being detected correctly, you can override the automatic settings below.
Force 802.3AT Mode (NOT recommended) ?	Enable this option if you are sure this speaker is connected to an 802.3AT power source, but it is not being detected correctly (not recommended).
Auxiliary Power Supply 🛜	This device can be connected to a +24VDC auxiliary power supply. Check this box if this is how this speaker is being powered.

#### Table 2-10. Device Configuration Parameters

Web Page Item	Description
Singlewire Broadcast Strobe Settings	For up to 10 Singlewire pages, when a priority is specified for the page, a corresponding strobe scene will be activated. The color may be selected from the drop down menu, or customized by the user with the 0-255 scale. Brightness is specified with a value between 0 and 100.
Priority ?	Indicates the priority of the Singlewire broadcast, with 1 the highest priority and 10 the lowest.
Scene 👔	Use this section to select the strobe flashing behavior for the Singlewire Broadcast.
ADA Compliant 🛜	Strobe will blink ON at the specified brightness for 150ms then OFF for 350ms during the duration of the event.
Slow Fade ?	Strobe will increase in brightness from 0 to the specified brightness and back to 0 over the course of about 3.5 seconds during the duration of the event.
Fast Fade ?	Strobe will increase in brightness from 0 to the specified brightness and back to 0 over the course of about 1.5 seconds during the duration of the event.
Slow Blink ?	Strobe will blink ON at the specified brightness for one second then OFF for one second during the duration of the event.
Fast Blink ?	Strobe will blink ON at the specified brightness then OFF five times per second during the duration of the event.
Color ?	Select the desired color (only one may be chosen).
Brightness 🛜	How bright the strobe will blink when there is a Singlewire Broadcast. This is the maximum brightness for "fade" type scenes.
Red ?	The red LED value for the Singlewire Broadcast.
Green ?	The green LED value for the Singlewire Broadcast.
Blue ?	The blue LED value for the Singlewire Broadcast.
Preview	Use this button to preview the strobe flashing behavior for the <b>Singlewire Broadcast Strobe Settings</b> .
Line-In Settings	
Enable Line-in to Line-out Loopback 🛜	Line-in audio will play back out the device's audio output ports. This is the lowest priority audio and will be preempted by any other audio stream.
DTMF Settings	
Require Security Code ?	When selected, the user will be prompted to enter a Security Code (entered on this page) before being able to execute a page when calling the device.
Security Code ?	Type the Security Code in this field. The Security Code must only use characters '0-9', '*' and '#'. Enter up to 25 characters.
Relay Settings	
Activate Relay with DTMF Code ?	Activates the relay when the DTMF Activation Code is entered on the phone during a SIP call with the device. RFC2833 DTMF payload types are supported.

## Table 2-10. Device Configuration Parameters (continued)

Web Page Item	Description
Relay Pulse Code ?	DTMF code used to pulse the relay when entered on a phone during a SIP call with the device. Relay will activate for Relay Pulse Duration seconds then deactivate. Activate Relay with DTMF Code must be enabled. Enter up to 25 digits (* and # are supported).
Relay Pulse Duration (in seconds) 🛜	The length of time (in seconds) during which the relay will be activated when the DTMF Relay Activation Code is detected. Enter up to 5 digits.
Relay Activation Code ?	Activation code used to activate the relay when entered on a phone during a SIP call with the device. Relay will be active indefinitely, or until the DTMF Relay Deactivation code is entered. Activate Relay with DTMF Code must be enabled. Enter up to 25 digits (* and # are supported).
Relay Deactivation Code ?	Code used to deactivate the relay when entered on a phone during a SIP call with the device. Activate Relay with DTMF Code must be enabled. Enter up to 25 digits (* and # are supported).
Activate Relay During Ring ?	When selected, the relay will be activated for as long as the device is ringing. When Auto-Answer Incoming Calls is enabled, the device will not ring and this option does nothing.
Activate Relay During Night Ring ?	When selected, the relay will be activated as long as the Nightringer extension is ringing.
Activate Relay While Call Active ?	When selected, the relay will be activated as long as the SIP call is active.
Misc Settings	
Device Name ?	Type the device name. Enter up to 25 characters.
Auto-Answer Incoming Calls ?	When selected, the device will automatically answer incoming calls. When <b>Auto-Answer Incoming Calls</b> is disabled, the device will play a ring tone (corresponds to Ring Tone on the Audiofiles page) out of the speaker.
Beep on Init 🛜	Device will play the user-defined "pagetone" audio file when it boots.
Beep on Page ?	Device will play the user defined "pagetone" audio file before playing a SIP page.
Disable HTTPS (NOT recommended) ?	Disables the encrypted connection to the webpage. We do not recommend disabling HTTPS for security reasons.
Two Speakers Connected ?	Specify if one or two speakers are connected to the paging amplifier. If only one is connected, ensure that it is wired to the first set of terminal blocks.
RGB Strobe ?	Status of optional RGB Strobe.
Test Audio	Click on the <b>Test Audio</b> button to do an audio test. When the <b>Test Audio</b> button is pressed, you will hear a voice message for testing the device audio quality and volume.
Test Relay	Click on the <b>Test Relay</b> button to do a relay test.
	Click the Save button to save your configuration settings.
Save	Note: You need to reboot for changes to take effect.

## Table 2-10. Device Configuration Parameters (continued)

Web Page Item	Description
Reboot	Click on the <b>Reboot</b> button to reboot the system.
Toggle Help	Click on the <b>Toggle Help</b> button to see a short description of some of the web page items. First click on the <b>Toggle Help</b> button, and you will see a question mark (?) appear next to some of the web page items. Move the mouse pointer to hover over a question mark to see a short description of
	a specific web page item.

### Table 2-10. Device Configuration Parameters (continued)

**Note** You can change the **SIP Volume**, **Multicast Volume**, **Ring Volume**, and **Sensor Volume** without rebooting the device. You must save and reboot the device for other changes to take effect.

## 2.3.5.1 Time Zone Strings

The posix time zone string tells the internal date and time utilities how to handle daylight savings time for different time zones. Table 2-23 shows some common strings.

	5
Time Zone	Time Zone String
US Pacific time	PST8PDT,M3.2.0/2:00:00,M11.1.0/2:00:00
US Mountain time	MST7MDT,M3.2.0/2:00:00,M11.1.0/2:00:00
US Eastern Time	EST5EDT,M3.2.0/2:00:00,M11.1.0/2:00:00
Phoenix Arizona <sup>a</sup>	MST7
US Central Time	CST6DST,M3.2.0/2:00:00,M11.1.0/2:00:00

### Table 2-11. Common Time Zone Strings

a.Phoenix, Arizona does not use daylight savings time.

Table 2-24 shows a breakdown of the parts that constitute the following time zone string:

#### • CST6DST,M3.2.0/2:00:00,M11.1.0/2:00:00

Time Zone String Part	Meaning
CST6CDT	The time zone offset from GMT and three character identifiers for the time zone.
CST	Central Standard Time
6	The (hour) offset from GMT/UTC
CDT	Central Daylight Time
M3.2.0/2:00:00	The date and time when daylight savings begins.
МЗ	The third month (March)
.2	The 2nd occurrence of the day (next item) in the month
.0	Sunday
/2:00:00	Time of day to change
M11.1.0/2:00:00	The date and time when daylight savings ends.
M11	The eleventh month (November)
.1	The 1st occurrence of the day (next item) in the month
.0	Sunday
/2:00:00	Time of day to change

### Table 2-12. Time Zone String Parts

Time Zone String	Table 2-25 has some more examples of time
Examples	

Time Zone	Time Zone String
Tokyo <sup>a</sup>	IST-9
Berlin <sup>b</sup>	CET-1MET,M3.5.0/1:00,M10.5.0/1:00

#### Table 2-13. Time Zone String Examples

zone strings.

a.Tokyo does not use daylight savings time.

b.For Berlin, daylight savings time starts on the last Sunday in March at 01:00 UTC, and ends on the last Sunday in October at 01:00 UTC, and is one hour ahead of UTC.

Time Zone Identifier A user-definable three or four character time zone identifier (such as PST, EDT, IST, MUT, etc) is needed at the beginning of the posix time zone string to properly set the time. However, the specific letters or numbers used for the time zone identifier are not important and can be any three or four letter or number combination that is chosen by the user. However, the time zone identifier cannot be blank.

### Figure 2-27. Three or Four Character Time Zone Identifier

You can also use the following URL when a certain time zone applies daylight savings time:

#### http://www.timeanddate.com/time/dst/2011.html

World GMT Table Table 2-26 has information about the GMT time in various time zones.

Time Zone	City or Area Zone Crosses	City or Area Zone Crosses		
GMT-12	Eniwetok			
GMT-11	Samoa			
GMT-10	Hawaii			
GMT-9	Alaska			
GMT-8	PST, Pacific US			
GMT-7	MST, Mountain US			
GMT-6	CST, Central US			
GMT-5	EST, Eastern US			
GMT-4	Atlantic, Canada			
GMT-3	Brazilia, Buenos Aries			
GMT-2	Mid-Atlantic			
GMT-1	Cape Verdes			
GMT	Greenwich Mean Time, Dublin			
GMT+1	Berlin, Rome			
GMT+2	Israel, Cairo			
GMT+3	Moscow, Kuwait			
GMT+4	Abu Dhabi, Muscat			

Time Zone	City or Area Zone Crosses		
GMT+5	Islamabad, Karachi		
GMT+6	Almaty, Dhaka		
GMT+7	Bangkok, Jakarta		
GMT+8	Hong Kong, Beijing		
GMT+9	Tokyo, Osaka		
GMT+10	Sydney, Melbourne, Guam		
GMT+11	Magadan, Soloman Is.		
GMT+12	Fiji, Wellington, Auckland	Fiji, Wellington, Auckland	

## Table 2-14. World GMT Table (continued)

# 2.3.6 Configure the Network Parameters

1. Click the Network menu button to open the Network page (Figure 2-28).

Figure 2-28	. Network	Configuration	Page
-------------	-----------	---------------	------

Si	nglew	ire	1/3 1	Pa	aina	Δm	nlifi	er
01	giew		10.1		ging		PIIII	
Staved Nature	sk Cattinga				Cottings			
Stored Netwo	rk Settings				Settings			
Addressing Mode:	Static ® DHCP				(0-4095): 0			
Hostname:	SipDevice036d9a			VLAN Pri	ority (0-7): 0			
P Address:	10.10.10.10							
Subnet Mask:	255.0.0.0							
Default Gateway:	10.0.0.1							
DNS Server 1:	10.0.0.1							
DNS Server 2:	10.0.0.1							
DHCP Timeout in seco								
A value of -1 will retry f	orever							
						10		
Current Netw	ork Sottings			Save	Reboot Togg	le Help		
	ork Settings							
P Address: 10.10								
Subnet Mask: 255.0 Default Gateway: 10.0.0								
DNS Server 1: 10.0.1								
DNS Server 2:								

- 2. On the Network page, enter values for the parameters indicated in Table 2-15.
- **Note** The question mark icon (?) in the following table shows which web page items will be defined after the **Toggle Help** button is pressed.

Web Page Item	Description
Stored Network Settings	
Addressing Mode 🛜	Select either DHCP IP Addressing or Static Addressing by marking the appropriate radio button. DHCP Addressing mode is enabled on default and the device will attempt to resolve network addressing with the local DHCP server upon boot. If DHCP Addressing fails, the device will revert to the last known IP address or the factory default address if no prior DHCP lease was established. See Section 2.3.1, "Factory Default Settings" for factory default settings. Be sure to click <b>Save</b> and <b>Reboot</b> to store changes when configuring a Static address.
Hostname 🛜	This is the hostname provided by the DHCP server. See the DHCP/DNS server documentation for more information. Enter up to 64 characters.
IP Address ?	Enter the Static IPv4 network address in dotted decimal notation.
Subnet Mask ?	Enter the Subnet Mask in dotted decimal notation.
Default Gateway ?	Enter the Default Gateway IPv4 address in dotted decimal notation.
DNS Server 1 💡	Enter the primary DNS Server IPv4 address in dotted decimal notation.
DNS Server 2 🛜	Enter the secondary DNS Server IPv4 address in dotted decimal notation.
DHCP Timeout in seconds 🛜	Specify the desired time-out duration (in seconds) that the device will wait for a response from the DHCP server before reverting back to the stored static IP address. The stored static IP address may be the last known IP address or the factory default address if no prior DHCP lease was established. Enter up to 8 characters. A value of -1 will retry forever.
Current Network Settings	Shows the current network settings.
IP Address	Shows the current Static IP address.
Subnet Mask	Shows the current Subnet Mask address.
Default Gateway	Shows the current Default Gateway address.
DNS Server 1	Shows the current DNS Server 1 address.
DNS Server 2	Shows the current DNS Server 2 address.
VLAN Settings	
VLAN ID (0-4095) ?	Specify the IEEE 802.1Q VLAN ID number. Enter up to 4 digits.
	<b>Note:</b> The device supports 802.1Q VLAN tagging support. The switch port connected to the device will need to be in "trunking mode" for the VLAN tags to propagate.
VLAN Priority (0-7) 🛜	Specify the IEEE 802.1p VLAN priority level. Enter 1 digit. A value of 0 may cause the VLAN ID tag to be ignored.

#### Table 2-15. Network Configuration Parameters

Web Page Item	Description
	Click the <b>Save</b> button to save your configuration settings.
Save	Note: You need to reboot for changes to take effect.
Reboot	Click on the <b>Reboot</b> button to reboot the system.
Toggle Help	Click on the <b>Toggle Help</b> button to see a short description of some of the web page items. First click on the <b>Toggle Help</b> button, and you will see a question mark (?) appear next to some of the web page items. Move the mouse pointer to hover over a question mark to see a short description of a specific web page item.

## Table 2-15. Network Configuration Parameters (continued)

**Note** You must click on the **Save** button and then the **Reboot** button for the changes to take effect.

# 2.3.7 Configure the SIP (Session Initiation Protocol) Parameters

1. Click on the **SIP** menu button to open the **SIP** page (Figure 2-29).

## Figure 2-29. SIP Configuration Page

Home	Device	Network	SIP	Multicast	Sensor	Audiofiles	Events	Autoprov	Firmware
C	ingel	~	HO I	12 1	De		Λ 100	mlifi.	<b>. .</b>
3	Ingi	ew	re	V 3.L	Pa	ging	AIII	plifi	er
	<b>•</b>							•	
SIP Setting	ns				Night	ringer Setti	nas		
Enable SIP operat		~				ghtringer:			
Register with a SI					SIP Serve		10.0.0.2	53	
Use Cisco SRST:					Remote S		5060		-
Primary SIP Serve	er:	10.0.0.253			Local SIP	Port:	5061		-
Primary SIP User	ID:	199			Outbound	Proxy:			-
Primary SIP Auth	ID:	199				Proxy Port:	0		-
Primary SIP Auth	Password:				User ID:		241		-
					Authentic	ate ID:	241		-
Backup SIP Serve	er 1:				Authentic	ate Password:			-
Backup SIP User I	ID 1:				Re-regist	ration Interval (in s	econds): 360		
Backup SIP Auth					10000 000 <b>0</b> 000				
Backup SIP Auth	Password 1:								
Backup SIP Serve	w 9.				Night	ringer Strol	be Setting	S	
Backup SIP User I				_	Blink Stro	be on Nightring:			
Backup SIP Auth				-		er Strobe Brightnes	ss: 100		
Backup SIP Auth				-	I ADA CO				
Sustap or Autri	r assirona z.	-			Slow Fa				
Remote SIP Port:		5060			Fast Fa				
Local SIP Port:		5060			Slow Bl				
Outbound Proxy:					Fast Bli Color:	пк	Blue +		
Outbound Proxy F	Port:	0			Red:		0		
		1			Green:		0		
Disable rport Disc	covery:				Blue:		255		
Buffer SIP Calls:									
	terval (in seconds)	: 360			Preview				
Unregister on Boo		10000							
Keep Alive Period		10000							

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Figure 2-30. SIP Configuration Page

SIP Strobe Settings Blink Strobe on Ring:	RTP Settings
	PTP Part (week) 10000
	RTP Port (even): 10500
	Jitter Buffer: 50
SIP Call Strobe Brightness: 100	
ADA Compliant	Call Disconnection
Slow Fade	Terminate Call after delay: 0
Fast Fade     Slow Blink	reminate our arei dellay.
• Fast Blink	
SIP Call Color: Green • Red: 0	Codec Selection
Green: 255	Force Selected Codec:
Blue: 0	Codec: PCMU (G.711, u-law) *
Preview	
MM/ Stroke Settings	
MWI Strobe Settings	
Blink Strobe on MWI:  MWI Strobe Brightness: 100	
ADA Compliant	
O Slow Fade	
Fast Fade     Slow Blink	
Gow Bink     Fast Blink	
MWI Color: Yellow •	
Red: 255 Green: 255	
Blue: 0	
Preview	
Save Reboot Toggle Help	

- 2. On the SIP page, enter values for the parameters indicated in Table 2-16.
- **Note** The question mark icon (?) in the following table shows which web page items will be defined after the **Toggle Help** button is pressed.

Web Page Item	Description
SIP Settings	
Enable SIP Operation ?	When enabled, the device will transmit, receive, and process SIP messages according to the configured SIP settings below.
Register with a SIP Server 🛜	When enabled, the device will attempt to register to the configured SIP Server(s) on this page. To configure the device to send and receive point-to-point SIP calls, enable <b>SIP Operation</b> and disable <b>Register with a SIP Server</b> (see Section 2.3.7.2, "Point-to-Point Configuration").
Use Cisco SRST <b>?</b>	When enabled, the backup servers are handled according to Cisco SRST (Survivable Remote Site Telephony). It is required for use in clustered Cisco Unified Communications Manager topologies.
Primary SIP Server ?	Enter the SIP server address as an IPv4 address in dotted decimal notation or a fully qualified domain name. This parameter also becomes the host portion of the SIP-URI for the device's extension on the primary SIP server. This field can accept entries of up to 255 characters in length.
Primary SIP User ID 🛜	Specify the SIP User ID for the Primary SIP Server. This parameter becomes the user portion of the SIP-URI for the device's extension on the primary SIP server. Enter up to 64 alphanumeric characters.
Primary SIP Auth ID 🛜	Specify the Authenticate ID for the Primary SIP Server. This parameter is required for SIP registration authentication. Enter up to 64 alphanumeric characters.
Primary SIP Auth Password 🛜	Specify the Authenticate Password for the Primary SIP Server. This parameter is required for SIP registration authentication. Enter up to 64 alphanumeric characters.
Backup SIP Server 1 ?	Enter the backup SIP server address as an IPv4 address in dotted decimal notation or a fully qualified domain name. This parameter also becomes the host portion of the SIP-URI for the device's extension on the backup SIP server. This field can accept entries of up to 255 characters in length.
Backup SIP User ID 1 🛜	Specify the SIP User ID for the first backup SIP Server. This parameter becomes the user portion of the SIP-URI for the device's extension on the first backup SIP server. Enter up to 64 alphanumeric characters.
Backup SIP Auth ID 1 🛜	Specify the Authenticate ID for the first backup SIP server. This parameter is required for SIP registration authentication. Enter up to 64 alphanumeric characters.
Backup SIP Auth Password 1 🛜	Specify the Authenticate Password for the first backup SIP server. This parameter is required for SIP registration authentication. Enter up to 64 alphanumeric characters.
Backup SIP Server 2 ?	Enter a second backup SIP server address as an IPv4 address in dotted decimal notation or a fully qualified domain name. This parameter also becomes the host portion of the SIP-URI for the device's extension on the

#### Table 2-16. SIP Configuration Parameters

characters in length.

second backup SIP server. This field can accept entries of up to 255

Web Page Item	Description
Backup SIP User ID 2 🛜	Specify the SIP User ID for the second backup SIP Server. This parameter becomes the user portion of the SIP-URI for the device's extension on the second backup SIP server. Enter up to 64 alphanumeric characters.
Backup SIP Auth ID 2 ?	Specify the Authenticate ID for the second backup SIP server. This parameter is required for SIP registration authentication. Enter up to 64 alphanumeric characters.
Backup SIP Auth Password 2 ?	Specify the Authenticate Password for the second backup SIP server. This parameter is required for SIP registration authentication. Enter up to 64 alphanumeric characters.
Remote SIP Port 🛜	The Remote SIP Port is the port number the device will use as the destination port when sending SIP messages. The default Remote SIP Port is 5060. The supported range is 0-65536. Enter up to 5 digits.
Local SIP Port ?	The Local SIP Port is the port number the device will use to receive SIP messages. The default Local SIP Port is 5060. The supported range is 0-65536. Enter up to 5 digits.
Outbound Proxy ?	Enter the Outbound Proxy address as an IPv4 address in dotted decimal notation or a fully qualified domain name (FQDN). When an IP address is configured, the device will send all SIP messages to this IP address. When an FQDN is configured, the device will run DNS NAPTR, SRV, and A queries on the FQDN to resolve an IP address to which it will send all SIP messages. This field can accept entries of up to 255 characters in length.
Outbound Proxy Port 🛜	The Outbound Proxy Port is port number used as the destination port when sending SIP messages to the outbound proxy. A value of 0 will default to 5060. The supported range is 0-65536. Enter up to 5 digits.
Disable rport Discovery ?	Disabling rport Discovery will prevent the device from including the public WAN IP address and port number in the contact information that is sent to the remote SIP servers. This will generally only need to be enabled when using an SBC or SIP ALG in conjunction with a remote SIP server.
Buffer SIP Calls ?	Also referred to as delayed paging. Device will buffer up to 4 minutes of audio then play back the recording after hang up.
Re-registration Interval (in seconds) ?	The SIP Re-registration interval (in seconds) is the SIP Registration lease time, also known as the expiry. The supported range is 30-3600 seconds. Enter up to 4 digits.
Unregister on Boot ?	When enabled, the device will send one registration with an expiry of 0 on boot.
Keep Alive Period ?	The minimum time in milliseconds between keep-alive packets sent for nat traversal. A value of 0 will disable keep alive packets.
SIP Strobe Settings	
Blink Strobe on Ring ?	When selected, the Strobe will blink a scene when ringing.
SIP Call Strobe Brightness 🛜	How bright the strobe will blink when there is a SIP Call. This is the maximum brightness for "fade" type scenes.
ADA Compliant 🛜	Strobe will blink ON at the specified brightness for 150ms then OFF for 350ms during the duration of the event.
Slow Fade 🛜	Strobe will increase in brightness from 0 to the specified brightness and back to 0 over the course of about 3.5 seconds during the duration of the event.

## Table 2-16. SIP Configuration Parameters (continued)

Web Page Item	Description	
Fast Fade 🛜	Strobe will increase in brightness from 0 to the specified brightness and back to 0 over the course of about 1.5 seconds during the duration of the event.	
Slow Blink 🛜	Strobe will blink ON at the specified brightness for one second then OFF for one second during the duration of the event.	
Fast Blink ?	Strobe will blink ON at the specified brightness then OFF five times per second during the duration of the event.	
SIP Call Color ?	Select desired color (only one may be chosen).	
Red ?	The red LED value for SIP Call.	
Green ?	The green LED value for SIP Call.	
Blue ?	The blue LED value for SIP Call.	
Preview	Use this button to preview the strobe flashing behavior for the <b>MWI Strobe Settings</b> .	
MWI Strobe Settings		
Blink Strobe on MWI ?	When selected, the strobe will blink a scene when a voicemail is waiting for its extension.	
MWI Strobe Brightness 🛜	How bright the strobe will blink when there is a message waiting. This the maximum brightness for "fade" type scenes.	
ADA Compliant ?	Strobe will blink ON at the specified brightness for 150ms then OFF for 350ms during the duration of the event.	
Slow Fade ?	Strobe will increase in brightness from 0 to the specified brightness and back to 0 over the course of about 3.5 seconds during the duration of the event.	
Fast Fade ?	Strobe will increase in brightness from 0 to the specified brightness and back to 0 over the course of about 1.5 seconds during the duration of the event.	
Slow Blink ?	Strobe will blink ON at the specified brightness for one second then OFF for one second during the duration of the event.	
Fast Blink ?	Strobe will blink ON at the specified brightness then OFF five times per second during the duration of the event.	
MWI Call Color ?	Select desired color (only one may be chosen).	
Red ?	The red LED value for MWI.	
Green ?	The green LED value for MWI.	
Blue ?	The blue LED value for MWI.	
Preview	Use this button to preview the strobe flashing behavior for the <b>MWI Strobe Settings</b> .	
Nightringer Settings		
Enable Nightringer ?	When Nightringer is enabled, the device will attempt to register a second extension with the SIP server. Any calls made to this extension will play a ringtone (corresponds to <b>Night Ring</b> on the <b>Audiofiles</b> page). By design, it is not possible to answer a call to the Nightringer extension.	

Table 2-16. SIP Configuration	on Parameters (continued)
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Web Page Item	Description
SIP Server ?	Enter the SIP server address as an IPv4 address in dotted decimal notation or a fully qualified domain name. This parameter also becomes the host portion of the SIP-URI for the device's Nightringer extension on the SIP server. This field can accept entries of up to 255 characters in length.
Remote SIP Port ?	The Remote SIP Port is the port number the device will use as the destination port when sending SIP messages for the Nightringer extension. The default Remote SIP Port is 5060. The supported range is 0-65536. Enter up to 5 digits.
Local SIP Port 🛜	The Local SIP Port is the port number the device will use to receive SIP messages for the Nightringer extension. This value cannot be the same as the Local SIP Port for the primary extension. The default Local SIP Port is 5061. The supported range is 0-65536. Enter up to 5 digits.
Outbound Proxy 👔	Enter the Outbound Proxy address as an IPv4 address in dotted decimal notation or a fully qualified domain name (FQDN). When an IP address is configured, the device will send all SIP messages to this IP address for the Nightringer extension. When an FQDN is configured, the device will run DNS NAPTR, SRV, and A queries on the FQDN to resolve an IP address to which it will send all SIP messages for the Nightringer extension. This field can accept entries of up to 255 characters in length.
Outbound Proxy Port 🛜	The Outbound Proxy Port is port number used as the destination port when sending SIP messages to the outbound proxy for the Nightringer extension. A value of 0 will default to 5060. The supported range is 0- 65536. Enter up to 5 digits.
User ID ?	Specify the SIP User ID for the SIP server. This parameter becomes the user portion of the SIP-URI for the device's Nightringer extension. Enter up to 64 alphanumeric characters.
Authenticate ID ?	Specify the Authenticate ID for the SIP Server. This parameter is required for SIP registration authentication. Enter up to 64 alphanumeric characters.
Authenticate Password ?	Specify the Authenticate Password for the SIP Server. This parameter is required for SIP registration authentication. Enter up to 64 alphanumeric characters.
Re-registration Interval (in seconds) ?	The SIP Re-registration Interval (in seconds) is the SIP Registration lease time, also known as the expiry. The supported range is 30-3600 seconds. Enter up to 4 digits.
Nightringer Strobe Settings	
Blink Strobe on Nightring 🛜	When selected, the Strobe will blink a scene when the Nightinger is ringing.
Nightringer Strobe Brightness 🛜	How bright the strobe will blink when the Nightringer is ringing. This is the maximum brightness for "fade" type scenes.
ADA Compliant ?	Strobe will blink ON at the specified brightness for 150ms then OFF for 350ms during the duration of the event.
Slow Fade 🛜	Strobe will increase in brightness from 0 to the specified brightness and back to 0 over the course of about 3.5 seconds during the duration of the event.

## Table 2-16. SIP Configuration Parameters (continued)

Web Page Item	Description
Fast Fade <b>?</b>	Strobe will increase in brightness from 0 to the specified brightness and back to 0 over the course of about 1.5 seconds during the duration of the event.
Slow Blink ?	Strobe will blink ON at the specified brightness for one second then OFF for one second during the duration of the event.
Fast Blink 🛜	Strobe will blink ON at the specified brightness then OFF five times per second during the duration of the event.
Nightringer Call Color ?	Select desired color (only one may be chosen).
Red ?	The red LED value for Nightringer.
Green ?	The green LED value for Nightringer.
Blue ?	The blue LED value for Nightringer.
Preview	Use this button to preview the strobe flashing behavior for the <b>Nightringer Strobe Settings</b> .
RTP Settings	
RTP Port (even) <b>?</b>	Specify the port number used for the RTP stream after establishing a SIP call. This port number must be an even number and defaults to 10500. The supported range is 0-65536. Enter up to 5 digits.
Jitter Buffer <b>?</b>	Specify the size of the jitter buffer (in milliseconds) used for SIP calls. Valid values are 50-1000.
Call Disconnection	
Terminate Call After Delay 🛜	Automatically terminate an active call after a given delay in seconds. A value of 0 will disable this function. Enter up to 8 digits.
Codec Selection	
Force Selected Codec ?	When configured, this option will allow you to force the device to negotiate for the selected codec. Otherwise, the device will perform codec negotiation using the default list of supported codecs.
Codec ?	Select the desired codec (only one may be chosen).
	Click the <b>Save</b> button to save your configuration settings.
Save	Note: You need to reboot for changes to take effect.
Reboot	Click on the <b>Reboot</b> button to reboot the system.
Toggle Help	Click on the <b>Toggle Help</b> button to see a short description of some of the web page items. First click on the <b>Toggle Help</b> button, and you will see a question mark (?) appear next to some of the web page items. Move the mouse pointer to hover over a question mark to see a short description of a specific web page item.
Note You mu effect.	ist click on the <b>Save</b> button and then the <b>Reboot</b> button for the changes to take
Note For spe	cific server configurations, go to the following website address:
	vww.cyberdata.net/connecting-to-ip-pbx-servers/

## 2.3.7.1 Dial Out Extension Strings and DTMF Tones (using rfc2833)

On the **SIP Configuration Page**, dial out extensions support the addition of comma delimited pauses and sending additional DTMF tones (using rfc2833). The first comma will pause three seconds after a call is first established with a remote device. Subsequent commas will pause for 2 seconds. A pause of one second will be sent after each numerical digit.

Extension String	Resulting Action
302	Dial out extension 302 and establish a call
302,2	Dial out extension 302 and establish a call, wait 3 seconds then send the DTMF tone '2'
302,25,,,4,,1	Dial out extension 302 and establish a call, wait 3 seconds then send the DTMF tone '2', send out DTMF tone 5, wait 6 seconds, send out DTMF tone 4, wait 4 seconds, send out DTMF tone 1

### Table 2-17. Examples of Dial-Out Extension Strings

**Note** The maximum number of total characters in the dial-out field is 64.

## 2.3.7.2 Point-to-Point Configuration

When the device is set to not register with a SIP server (see Figure 2-31), it is possible to set the device to dial out to a single endpoint.

In this case, the dial-out extension should be the IP address of the remote device. The device can also receive Point-to-Point calls. The delayed DTMF functionality is available in the Point-to-Point Mode.

Note Receiving point-to-point SiP calls may not work with all phones.

#### Figure 2-31. SIP Page Set to Point-to-Point Mode

				11 - F1			-
Home Device	Network S	SIP Multicast	Sensor	Audiofiles	Events	Autoprov	Firmware
				-			
Sina	lowir	e V3.:	l Dar	nnir	Δm	nlifi	ar
Sing		C VJ	гга	JIIIY		pini	
						-	
SIP Settings			Nighti	ringer Setti	ngs		
Enable SIP operation:	2		Enable Ni	ghtringer:			
Register with a SIP Server:	2		SIP Serve	r:	10.0.0.2	53	
Jse Cisco SRST:			Remote S	P Port:	5060		
Primary SIP Server:	10.0.0.253		Local SIP	Port:	5061		
Primary SIP User ID:	199		Outbound	Proxy:			
Primary SIP Auth ID:	199		Outbound	Proxy Port:	0		
Primary SIP Auth Password:			User ID:		241		
			Authentic	ate ID:	241		
Backup SIP Server 1:			Authentic	ate Password:			
Backup SIP User ID 1:			Re-registr	ation Interval (in se	econds): 360		
Backup SIP Auth ID 1:							
Backup SIP Auth Password 1:							
Backup SIP Server 2:			Nighti	ringer Strol	be Setting	S	
Backup SIP User ID 2:			Blink Stro	be on Nightring:			
Backup SIP Auth ID 2:			Nightringe	r Strobe Brightnes	ss: 100		
Backup SIP Auth Password 2:			ADA Co	mpliant			
			Slow Fa				
Remote SIP Port:	5060		<ul> <li>Fast Fac</li> <li>Slow Bli</li> </ul>				
ocal SIP Port:	5060		<ul> <li>Slow Bli</li> <li>Fast Blir</li> </ul>				
Outbound Proxy:			Color:	in.	Blue +		
Dutbound Proxy Port:	0		Red:		0		
			Green:		0		
Disable rport Discovery:			Blue:		255		
Buffer SIP Calls:			Preview		S		
Re-registration Interval (in secon Jnregister on Boot:	15): 360		Freview				
	10000						
Keep Alive Period:	10000						

Device is set to NOT register with a SiP server

## 2.3.7.3 Delayed DTMF

On the **SIP Configuration** page the dial out extension supports the addition of comma delimited pauses and sending additional DTMF tones (using rfc2833). The first comma will pause three seconds after a call is first established with a remote device. Subsequent commas will pause for 2 seconds. A pause of one second will be sent after each numerical digit.

Extension String	Resulting Action
302	Dial out extension 302 and establish a call
302,2	Dial out extension 302 and establish a call, wait 3 seconds then send the DTMF tone '2'
302,25,,,4,,1	Dial out extension 302 and establish a call, wait 3 seconds then send the DTMF tone '2', send out DTMF tone 5, wait 6 seconds, send out DTMF tone 4, wait 4 seconds, send out DTMF tone 1

### Table 2-18. Examples of Dial-Out Extension Strings

**Note** The maximum number of total characters in the dial-out field is 25.

## 2.3.8 Configure the Multicast Parameters

The Multicast Configuration page allows the device to join up to ten paging zones for receiving ulaw/alaw encoded RTP audio streams.

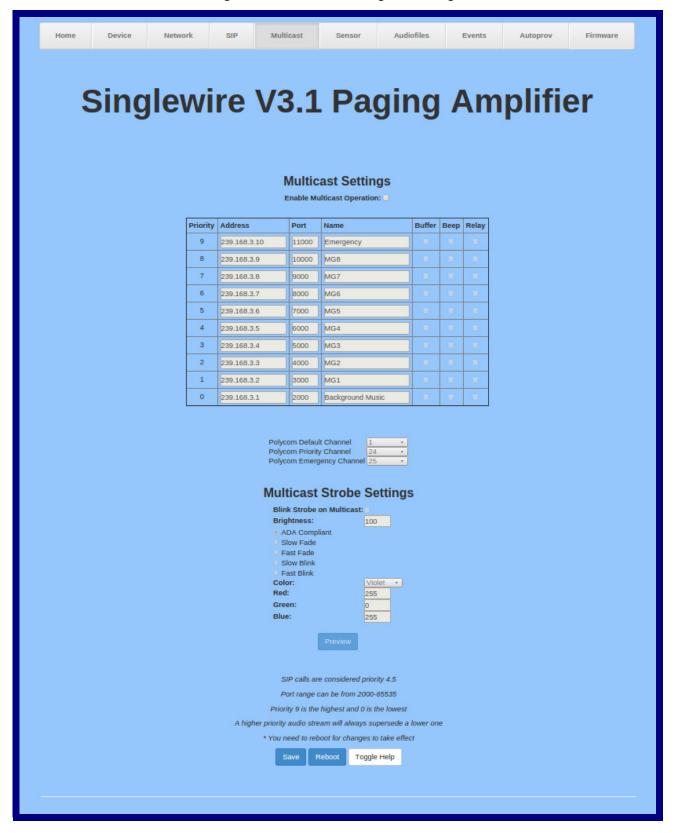
A paging zone can consist of one or many CyberData multicast group-enabled products. There is no limit to how many speakers can be in a given paging zone. Each multicast group is defined by a multicast address and port number.

Each multicast group is assigned a priority, allowing simultaneously arriving pages to be serviced based on importance. Multicast groups are compatible with IGMP through version 3. The device supports simultaneous SIP and Multicast.

Installing the Singlewire InformaCast Loudspeaker Amplifier (PoE) 55 Configure the Multicast Parameters

1. Click on the **Multicast** menu button to open the **Multicast** page. See Figure 2-32.

Figure 2-32. Multicast Configuration Page



- 2. On the Multicast page, enter values for the parameters indicated in Table 2-19.
- **Note** The question mark icon (?) in the following table shows which web page items will be defined after the **Toggle Help** button is pressed.

Web Page Item	Description			
Enable Multicast Operation	Enables or disables multicast operation.			
Priority	Indicates the priority for the multicast group. Priority <b>9</b> is the highest (emergency streams). <b>0</b> is the lowest (background music). SIP calls are considered priority <b>4.5</b> . See Section 2.3.8 "Assigning Priority" for more details.			
Address	Enter the multicast IP Address for this multicast group (15 character limit).			
Port	Enter the port number for this multicast group (5 character limit [range can be from 2000 to 65535]).			
	<b>Note</b> : The multicast ports have to be even values. The webpage will enforce this restriction.			
Name	Assign a descriptive name for this multicast group (25 character limit).			
Buffer	Device will buffer up to four minutes of audio and then play back the recording after the multicast stream finishes or after the buffer is full.			
Веер	When selected, the device will play a beep before multicast audio is sent.			
Relay	When selected, the device will activate a relay before multicast audio is sent.			
Polycom Default Channel	When a default Polycom channel/group number is selected, the device will subscribe to the default channel for one-way group pages. Group Numbers 1-25 are supported. Or, select <b>Disabled</b> to disable this channel.			
Polycom Priority Channel	When a priority Polycom channel/group number is selected, the device will subscribe to the priority channel for one-way group pages. Group Numbers 1-25 are supported. Or, select <b>Disable</b> to disable this channel.			
Polycom Emergency Channel	When an emergency Polycom channel/group number is selected, the device will subscribe to the default channel for one-way group pages. Group Numbers 1-25 are supported. Or, select <b>Disabled</b> to disable this channel.			
Multicast Strobe Settings				
Blink Strobe on Multicast ?	When selected, the Strobe will blink a scene when a multicast is received.			
Multicast Strobe Brightness 🛜	How bright the strobe will blink on a multicast page. This is the maximum brightness for "fade" type scenes.			
ADA Compliant 🛜	Strobe will blink ON at the specified brightness for 150ms then OFF for 350ms during the duration of the event.			
Slow Fade ?	Strobe will increase in brightness from 0 to the specified brightness and back to 0 over the course of about 3.5 seconds during the duration of the event.			

#### Table 2-19. Multicast Configuration Parameters

Web Page Item	Description			
Fast Fade ?	Strobe will increase in brightness from 0 to the specified brightness and back to 0 over the course of about 1.5 seconds during the duration of the event.			
Slow Blink ?	Strobe will blink ON at the specified brightness for one second then OFF for one second during the duration of the event.			
Fast Blink 🛜	Strobe will blink ON at the specified brightness then OFF five times per second during the duration of the event.			
Multicast Call Color ?	Select desired color (only one may be chosen).			
Red ?	The red LED value for Multicast.			
Green ?	The green LED value for Multicast.			
Blue ?	The blue LED value for Multicast.			
Preview	Use this button to preview the strobe flashing behavior for the <b>Multicast Strobe Settings</b> .			
	Click the Save button to save your configuration settings.			
Save	Note: You need to reboot for changes to take effect.			
Reboot	Click on the <b>Reboot</b> button to reboot the system.			
Toggle Help	Click on the <b>Toggle Help</b> button to see a short description of some of the web page items. First click on the <b>Toggle Help</b> button, and you will see a question mark (?) appear next to some of the web page items. Move the mouse pointer to hover over a question mark to see a short description of a specific web page item.			

## Table 2-19. Multicast Configuration Parameters (continued)

**Note** You must click on the **Save** button and then the **Reboot** button for the changes to take effect.

## 2.3.8.1 Assigning Priority

The device will prioritize simultaneous audio streams according to their priority in the list.

If both SIP and Multicast is enabled, SIP audio streams are considered priority **4.5**. SIP audio will interrupt multicast streams with priority **0** through **4** and will be interrupted by multicast streams with priority **5** through **9**.

During priority 9 multicast streams, the volume is set to maximum.

**Note** SIP calls, multicast streams, ring tones, ringback tones, and nightring tones are all prioritized.

Ringtones and Nightringtones All play at the same priority level. This means that it is possible to have a nightring tone and a normal ringtone playing at the same time.

# 2.3.9 Configure the Sensor Configuration Parameters

The door sensor (pins 1 and 2) on the terminal block can be used to monitor a door's open or closed state. There is an option on the **Sensor Configuration Page** to trigger on an open or short condition on these pins. The door sensor alarm will be activated when the **Sensor Timeout (in seconds)** parameter has been met.

Each sensor can trigger up to five different actions:

- Flash the LED until the sensor is deactivated (roughly 10 times/second)
- Activate the relay until the sensor is deactivated
- Loop an audio file out of the speaker until the sensor is deactivated
- Call an extension and establish two way audio
- Call an extension and play a pre-recorded audio file
- **Note** Calling a preset extension can be set up as a point-to-point call, but currently can't send delayed DTMF tones.
- 1. Click Sensor menu button to open the Sensor Configuration Page (Figure 2-33).

Figure 2-33. Sensor Configuration Page

Home Device Network SIP Multicast	Sensor Audiofiles	Events Autoprov	Firmware
Singlewire V3.1	Paging	Amplifi	er
Sensor	r Settings		
Blink Strobe on 3 Sensor Strobe B * ADA Compliant * Slow Fade * Fast Fade * Slow Blink * Fast Blink * Sensor Color: Red: Green: Blue:	204 id204 p robe Settings Sensor: rightness: 100		
Tes	t Sensor		
Save Rebo	oot Toggle Help		

- 2. On the Sensor page, enter values for the parameters indicated in Table 2-20.
- **Note** The question mark icon (?) in the following table shows which web page items will be defined after the **Toggle Help** button is pressed.

Web Page Item	Description		
Sensor Settings			
Sensor Normally Closed ?	Select the inactive state of the sensor. The sensor is also kno as the Sense Input on the device's terminal block.		
Sensor Timeout (in seconds) ?	The time (in seconds) the device will wait before it performs an action when the on-board door sensor is activated. The action(s) performed are based on the configured Sensor Settings below. Enter up to 5 digits.		
Activate Relay ?	When selected, the device's on-board relay will be activated until the on-board sensor is deactivated.		
Play Audio Locally 🛜	When selected, the device will loop an audio file out of the speaker until the sensor is deactivated.		
Make call to extension 🛜	When selected, the device will call an extension when the on- board door sensor is activated. Use the <b>Dial Out Extension</b> field below to specify the extension the device will call.		
Dial Out Extension ?	Specify the extension the device will call when the on-board sensor is activated. Enter up to 64 alphanumeric characters.		
Dial Out ID <mark>?</mark>	An additional Caller identification string added to outbound calls. Enter up to 64 alphanumeric characters.		
Play recorded audio ?	When selected, the device will call the <b>Dial Out Extension</b> and play an audio file to the phone answering the SIP call (corresponds to <b>Sensor Triggered</b> on the <b>Audiofiles Page</b> page).		
Repeat Sensor Message 🛜	The number of times to repeat the audio message through the local speaker or to the remote endpoint. A value of 0 will repeat the message while the sensor is active. Enter a value from 0-65536.		
Test Sensor	Click the Test Sensor button to test the sensor.		
Sensor Strobe Settings			
Blink Strobe on Sensor ?	When selected, the Strobe will blink a scene when the sensor is triggered.		
Sensor Strobe Brightness 🛜	How bright the strobe will blink when the sensor is triggered. This is the maximum brightness for "fade" type scenes.		
ADA Compliant ?	Strobe will blink ON at the specified brightness for 150ms then OFF for 350ms during the duration of the event.		
Slow Fade ?	Strobe will increase in brightness from 0 to the specified brightness and back to 0 over the course of about 3.5 seconds during the duration of the event.		

#### Table 2-20. Sensor Configuration Parameters

Web Page Item	Description
Fast Fade ?	Strobe will increase in brightness from 0 to the specified brightness and back to 0 over the course of about 1.5 seconds during the duration of the event.
Slow Blink ?	Strobe will blink ON at the specified brightness for one second then OFF for one second during the duration of the event.
Fast Blink ?	Strobe will blink ON at the specified brightness then OFF five times per second during the duration of the event.
Sensor Color ?	Select desired color (only one may be chosen).
Red ?	The red LED value for Sensor.
Green ?	The green LED value for Sensor.
Blue ?	The blue LED value for Sensor.
Preview	Use this button to preview the strobe flashing behavior for the <b>Sensor Strobe Settings</b> .
	Click the <b>Save</b> button to save your configuration settings.
Save	Note: You need to reboot for changes to take effect.
Reboot	Click on the <b>Reboot</b> button to reboot the system.
Toggle Help	Click on the <b>Toggle Help</b> button to see a short description of some of the web page items. First click on the <b>Toggle Help</b> button, and you will see a question mark (?) appear next to some of the web page items. Move the mouse pointer to hover over a question mark to see a short description of a specific we page item.

### Table 2-20. Sensor Configuration Parameters (continued)

Note You must click on the Save button for the changes to take effect.

# 2.3.10 Configure the Audio Configuration Parameters

The **Audiofiles** page is used to add custom audio to the board. User uploaded audio will take precedence over the audio files shipped with the device.

1. Click on the Audiofiles menu button to open the Audiofiles page (Figure 2-34).

Figure 2-34. Audiofiles Page

Home Device Netv	vork SIP Multicast Sensor Audiofiles Events Autoprov Firmware
Single	wire V3.1 Paging Amplifier
J	551
Audio Files	Available Space 36.09MB
0:	Currently set to default
1:	Currently set to default
	Browse No file chosen Play Delete Save
2:	Currently set to default           Browse         No file chosen         Play         Delete         Save
3:	Currently set to default Browse No file chosen Play Delete Save
4:	Currently set to default
5:	Browse No file chosen Play Delete Save
6:	Browse No file chosen Play Delete Save
	Browse No file chosen Play Delete Save
7:	Currently set to default           Browse         No file chosen         Play         Delete         Save
8:	Currently set to default           Browse         No file chosen         Play         Delete         Save
9:	Currently set to default
	Browse No file chosen Play Delete Save

Dot:	Currently set to	default			
			Browse No file chosen	Play Delete	Save
Audio Test:	Currently set to	default	Browse No file chosen	Play Delete	
Enter Code:	Currently set to	default	no ne chosen	Play Delete	Save
		[	Browse No file chosen	Play Delete	Save
Invalid Code:	Currently set to	default			
		(	Browse No file chosen	Play Delete	Save
Page Tone:	Currently set to	default			
			Browse No file chosen	Play Delete	Save
Your IP Address Is	currently set to	oerauit	Browse No file chosen	Play Delete	Save
Rebooting:	Currently set to	default			Save
		(	Browse No file chosen	Play Delete	Save
Restoring Default:	Currently set to	default			
		ļ	Browse No file chosen	Play Delete	Save
Ring Tone:	Currently set to	default	Browse No file chosen		
Sensor Triggered:	Currently set to	default	No he chosen	Play Delete	Save
	,,	(	Browse No file chosen	Play Delete	Save
Night Ring:	Currently set to	default			
			Browse No file chosen	Play Delete	Save

Figure 2-35. Audiofiles Page

- 2. On the Audiofiles page, enter values for the parameters indicated in Table 2-21.
- **Note** The question mark icon (?) in the following table shows which web page items will be defined after the **Toggle Help** button is pressed.

Web Page Item	Description Shows the space available for the user to save custom audio files if they want to change the message when the door or sensor is triggered.		
Available Space			
0-4	The name of the audio configuration option is the same as the spoken audio that plays on the board (24 character limit).		
	'0' corresponds to the spoken word "zero."		
	'1' corresponds to the spoken word "one."		
	'2' corresponds to the spoken word "two."		
	'3' corresponds to the spoken word "three."		
	'4' corresponds to the spoken word "four."		

Web Page Item	Description		
5-9	The name of the audio configuration option is the same as the spoken audio that plays on the board (24 character limit).		
	'5' corresponds to the spoken word "five."		
	'6' corresponds to the spoken word "six."		
	'7' corresponds to the spoken word "seven."		
	'8' corresponds to the spoken word "eight."		
	'9' corresponds to the spoken word "nine."		
Dot	Corresponds to the spoken word "dot." (24 character limit)		
Audio Test	Corresponds to the message "This is the CyberData IP speaker test message" character limit)		
Enter Code	Corresponds to the message "Enter Code" (24 character limit).		
nvalid Code	Corresponds to the message "Invalid Code" (24 character limit).		
Page Tone	Corresponds to a simple tone used for beep on initialization and beep on page (24 character limit).		
Your IP Address is	Corresponds to the message "Your IP address is" (24 character limit).		
Rebooting	Corresponds to the spoken word "Rebooting" (24 character limit).		
Restoring Default	Corresponds to the message "Restoring default" (24 character limit).		
Ring Tone	This is the tone that plays when set to ring when receiving a call (24 character limit).		
Sensor Triggered	Corresponds to the message "Sensor Triggered" (24 character limit).		
Night Ring	Specifies the ringtone for nightring. By default this parameter uses the same audio file that is selected for the <b>Ring Tone</b> parameter.		
Browse	Click on the <b>Browse</b> button to navigate to and select an audio file.		
Play	The <b>Play</b> button will play that audio file.		
Delete	The <b>Delete</b> button will delete any user uploaded audio and restore the stock audio file.		
Save	The <b>Save</b> button will download a new user audio file to the board once you've selected the file by using the <b>Browse</b> button. The <b>Save</b> button will delete any pre-existing user-uploaded audio files.		

## Table 2-21. Audiofiles Configuration Parameters (continued)

## 2.3.10.1 User-created Audio Files

User created audio files should be saved in the following format:

RIFF (little-endian) data, WAVE audio, Microsoft PCM, 16 bit, mono 8000 Hz

You can use the free utility *Audacity* to convert audio files into this format. See Figure 2-36 through Figure 2-38.

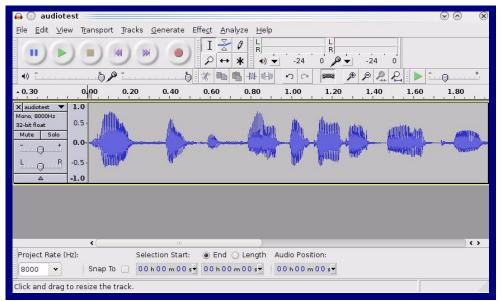


Figure 2-36. Audacity 1

Figure	2-37.	Audacity	2
--------	-------	----------	---

🔒 💽 Edit Metadata 📃		$\odot \odot $
Use arrow keys (or RETURN ke	ey after editing) to navigate fi	elds.
Tag Name	Tag Value	
Artist Name		
Track Title		
Album Title		
Track Number		
Year		
Genre		
Comments		
Add	<u>B</u> emove <u>C</u> lear	
<u></u> dd		
Genres	Template	
E <u>d</u> it Rese <u>t</u>	Load Save	. S <u>e</u> t Default
	0	ancel

When you export an audio file with Audacity, save the output as:

• WAV (Microsoft) signed 16 bit PCM.

🔒 🕥 Export File		$\odot \odot \otimes$
- D-		
Name: audiotest	wav	
Save in <u>f</u> older: ( The folder:		*
✓ Browse for other folders		
💽/ tmp/		Create Fo <u>l</u> der
Places	Name	✓   Modified
🚜 Search	🛅 cscope.4371	Yesterday at 14:30
🛞 Recently Used	🛅 kde-na	Yesterday at 14:26
🛅 na	🛅 kde-root	Yesterday at 14:26
🛅 Desktop	🛅 ksocket-na	09:20
🐻 File System	🛅 orbit-na	Yesterday at 14:32
👩 250.1 GB Media	ssh-CIPQVD3392	Yesterday at 14:26
	₩ v814422	Vesterday at 15:45
		\$
<b>♣</b> <u>A</u> dd <b>※</b> <u>R</u> emove		WAV (Microsoft) signed 16 bit PCM 👻
	<u>O</u> ptions.	
		⊘ <u>C</u> ancel

#### Figure 2-38. WAV (Microsoft) signed 16 bit PCM

WAV (Microsoft) signed 16 bit PCM

### 2.3.11 Configure the Events Parameters

The **Events** page specifies a remote server that can be used to receive HTTP POST events when actions take place on the board.

1. Click on the Events menu button to open the Events page (Figure 2-39).

Figure 2-39. Event Configuration Page

Server IP Address:     10.0.0.250       Enable Call Start Events:     Server Port:     8080       Enable Call Terminated Events:     Server URL:     xmlparse_engine       Enable Relay Activated Events:     Server URL:     xmlparse_engine       Enable Relay Deactivated Events:     Server URL:     Server URL:       Enable Relay Activated Events:     Server URL:     Server URL:       Enable Night Ring Events:     Server URL:     Server URL:       Enable Power On Events:     Server URL:     Server URL:       Enable Multicast Start Events:     Server URL:     Server URL:       Enable Sensor Events:     Server URL:     Server URL:       Enable 60 Second Heartbeat:     Server URL:     Server URL:	Home	Device	Network	SIP	Multicast	Sensor	Audiofiles	Events	Autoprov	Firmware
Enable Event Generation:  Events Enable Call Start Events: Enable Call Terminated Events: Enable Relay Activated Events: Enable Relay Deactivated Events: Enable Relay Deactivated Events: Enable Relay Events: Enable Multicast Storp Events: Enable Multicast Storp Events: Enable Multicast Storp Events: Enable Go Second Heartbeat:			-			_		_		
Events       Server IP Address:       10.0.250         Enable Call Start Events:       Server Port:       8080         Enable Call Terminated Events:       Server VP NDT:       8080         Enable Relay Activated Events:       Server URL:       xmlparse_engine         Enable Relay Deactivated Events:       Enable Nulticast Start Events:       Enable Nulticast Start Events:         Enable Multicast Stop Events:       Enable Stop Events:       Enable Stop Events:         Enable 60 Second Heartbeat:       Enable 60 Second Heartbeat:       Enable Stop Events:	S	ing	lew	Ire	V3.1	. <b>Pa</b>	ging	Am	pliti	er
Events       Server IP Address:       10.0.250         Enable Call Start Events:       Server IP Address:       3080         Enable Call Terminated Events:       Server Port:       3080         Enable Relay Activated Events:       Server URL:       xmlparse_engine         Enable Relay Deactivated Events:       Enable Nulticast Start Events:       Enable Nulticast Start Events:       Enable Start Events:         Enable Multicast Stop Events:       Enable Stop Events:       Enable Stop Events:       Enable Stop Events:         Enable 60 Second Heartbeat:       Image: Server IP Address:       Image: Server IP Address:       Image: Server IP Address:										
Events     Server IP Address:     10.0.250       Enable Call Start Events:     Server Port:     8080       Enable Relay Activated Events:     Server URL:     xmlparse_engine       Enable Relay Deactivated Events:     Server URL:     xmlparse_engine       Enable Rolay Deactivated Events:     Server URL:     Server URL:       Enable Rolay Deactivated Events:     Server URL:     Server URL:       Enable Rolay Deactivated Events:     Server URL:     Server URL:       Enable Power On Events:     Server URL:     Server URL:       Enable Multicast Start Events:     Server URL:     Server URL:       Enable Multicast Stop Events:     Server URL:     Server URL:       Enable 60 Second Heartbeat:     Server URL:     Server URL:	Enable Event Gen	eration: 🗆				Even	Server			
Enable Call start Events:     Server Port:     8080       Enable Call Terminated Events:     Server URL:     xmlparse_engine       Enable Relay Activated Events:        Enable Relay Deactivated Events:        Enable Roley Deactivated Events:        Enable Power On Events:        Enable Multicast Start Events:        Enable Multicast Stop Events:        Enable 60 Second Heartbeat:	Events									
Enable Relay Activated Events:   Enable Relay Deactivated Events:   Enable Night Ring Events:   Enable Power On Events:   Enable Multicast Start Events:   Enable Multicast Stop Events:   Enable Sensor Events:   Enable 60 Second Heartbeat:		The second second second second second							-	
Enable Relay Deactivated Events: Enable Night Ring Events: Enable Power On Events: Enable Multicast Start Events: Enable Sensor Events: Enable 60 Second Heartbeat:						Server U	RL: xmlparse	engine		
Enable Night Ring Events:  Enable Power On Events:  Enable Multicast Start Events:  Enable Multicast Stop Events:  Enable Sensor Events:  Enable 60 Second Heartbeat:										
Enable Power On Events: Enable Multicast Start Events: Enable Multicast Stop Events: Enable Multicast Stop Events: Enable Seos Events: Enable 60 Second Heartbeat:										
Enable Multicast Stop Events:  Enable Sensor Events: Enable 60 Second Heartbeat:										
Enable Sensor Events: Enable 60 Second Heartbeat:	Enable Multicast	Start Events:								
Enable Sensor Events: Enable 60 Second Heartbeat:	Enable Multicast	Stop Events:								
Check All Uncheck All	Enable 60 Second	i Heartbeat:								
	Check All		Uncheck All							
	Save Reboo	Toggle He	lp							
Save Reboot Toggle Help										
Save Reboot Toggle Help										
Save Reboot Toggle Help										

- 2. On the **Events** page, enter values for the parameters indicated in Table 2-22.
- **Note** The question mark icon (?) in the following table shows which web page items will be defined after the **Toggle Help** button is pressed.

Web Page Item	Description
Enable Event Generation ?	The device will send HTTP POST events to the specified remote server and port number whenever a certain action takes place. Select an event type below to generate an HTTP POST event.
Events	
Enable Call Start Events ?	When selected, the device will report the start of a SIP call.
Enable Call Terminated Events ?	When selected, the device will report the end of a SIP call.
Enable Relay Activated Events 🛜	When selected, the device will report relay activation.
Enable Relay Deactivated Events 🛜	When selected, the device will report relay deactivation.
Enable Night Ring Events 🛜	When selected, the device will report when it starts ringing upon an incoming SIP call to the Nightringer extension. As a reminder, the Nightringer extension always rings upon an incoming SIP call and it is not possible to alter this behavior.
Enable Power On Events 🛜	When selected, the device will report when it boots.
Enable Multicast Start Events ?	When selected, the device will report when the device starts playing a multicast audio stream.
Enable Multicast Stop Events ?	When selected, the device will report when the device stops playing a multicast audio stream.
Enable Sensor Events ?	When selected, the device will report when the on-board sensor is activated.
Enable 60 Second Heartbeat Events ?	When enabled, the device will report a Heartbeat event every 60 seconds. SIP registration is not required to generate Heartbeat events.
Check All	Click on Check All to select all of the events on the page.
Uncheck All	Click on Uncheck All to de-select all of the events on the page.
Event Server	
Server IP Address ?	The IPv4 address of the event server in dotted decimal notation.
Server Port ?	Specify the event server port number. The supported range is 0-65536. Enter up to 5 digits.
Server URL ?	Generally, the destination URL is the name of the application that receives the events and the string in the HTTP POST command. It can be a script used to parse and process the HTTP POST events. Enter up to 127 characters.
	Click the <b>Save</b> button to save your configuration settings.
Save	Note: You need to reboot for changes to take effect.
Reboot	Click on the <b>Reboot</b> button to reboot the system.

Web Page Item	Description
Toggle Help	Click on the <b>Toggle Help</b> button to see a short description of some of the web page items. First click on the <b>Toggle Help</b> button, and you will see a question mark (?) appear next to some of the web page items. Move the mouse pointer to hover over a question mark to see a short description of a specific web page item.

#### Table 2-22. Events Configuration Parameters(continued)

**Note** You must click on the **Save** button and then the **Reboot** button for the changes to take effect.

#### 2.3.11.1 Example Packets for Events

The server and port are used to point to the listening server and the 'Remote Event Server URL' is the destination URL (typically the script running on the remote server that's used to parse and process the POST events).

**Note** The XML is URL-encoded before transmission so the following examples are not completely accurate.

Here are example packets for every event:

```
POST xmlparse engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 197
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData Device' MAC='0020f70015b6'>
<event>POWERON</event>
</cyberdata>
POST xmlparse engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 199
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData Device' MAC='0020f70015b6'>
<event>HEARTBEAT</event>
</cyberdata>
POST xmlparse engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 196
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData Device' MAC='0020f70015b6'>
<event>BUTTON</event>
</cyberdata>
POST xmlparse engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 201
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData Device' MAC='0020f70015b6'>
<event>CALL ACTIVE</event>
</cyberdata>
POST xmlparse_engine HTTP/1.1
Host: 10.0.3.79
```

```
User-Agent: CyberData/1.0.0
Content-Length: 205
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData Device' MAC='0020f70015b6'>
<event>CALL TERMINATED</event>
</cyberdata>
POST xmlparse engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 197
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData Device' MAC='0020f70015b6'>
<event>RINGING</event>
</cyberdata>
POST xmlparse engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 234
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData Device' MAC='0020f70015b6'>
<event>MULTICAST START
<index>8</index>
</cyberdata>
POST xmlparse engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 233
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData Device' MAC='0020f70015b6'>
<event>MULTICAST STOP</event>
<index>8</index>
</cyberdata>
POST xmlparse engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 234
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData Device' MAC='0020f70015b6'>
<event>RELAY ACTIVATED
</cyberdata>
POST xmlparse engine HTTP/1.1
Host: 10.0.3.79
```

```
User-Agent: CyberData/1.0.0
Content-Length: 234
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData Device' MAC='0020f70015b6'>
<event>RELAY_DEACTIVATED</event>
</cyberdata>
```

```
POST xmlparse_engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 234
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData Device' MAC='0020f70015b6'>
<event>NIGHTRINGING</event>
</cyberdata>
```

### 2.3.12 Configure the Autoprovisioning Parameters

Autoprovisioning can be used to automatically configure your device. The autoprovisioning file is an xml file with the device configuration. Values found in this file will override values stored in on-board memory.

**Note** By default, the device will try to set up its configuration with autoprovisioning.

1. Click the Autoprov menu button to open the Autoprovisioning page. See Figure 2-40.

Figure 2-40. Autoprovisioning Page

Home	Device	Network	SIP	Multicast	Sensor	Audiofiles	Events	Autoprov	Firmware
ę	Sing	glew	ire	<b>V3.</b> 1	L Pa	ging	Am	plifi	er
Autoprovision Autoprovision See the manual Autoprovisioning the device will	ing Server: ing Filename: ing autoupdate ( at time (HHMMS when idle (in mi to learn how to o g happens on boo first look for a cor	ss): inutes > 10): 0 use autoprovisionin ot. nfigured server add	ress and filena	ume.	of DHCP options a	nd try to download '00	) 220f7036d9a.xml*	and if this fails, '000	000cd.xml*.
Download Te Autoprovisio	ning log								
00:00 Autopro 00:00 Autopro 00:00 Autopro 00:00 Failed t 00:00 Autopro	ov looking for 002 ov looking for 000 to fetch autoprov	3 in DHCP server=' 20f7036d9a.xml at h 0000cd.xml at http:// file '2 in DHCP server='	http://chalmers /chalmers.cybe "10.0.1.118"	.cyberdata.net					Î

- 2. On the **Autoprovisioning** page, you may enter values for the parameters indicated in Table 2-23.
- **Note** The question mark icon (?) in the following table shows which web page items will be defined after the **Toggle Help** button is pressed.

Web Page Item	Description
Disable Autoprovisioning ?	Prevent the device from automatically trying to download a configuration file. See Section 2.3.12.1, "Autoprovisioning" for more information.
Autoprovisioning Server ?	Enter the IPv4 address of the provisioning server in dotted decimal notation.
Autoprovisioning Filename ?	The autoprovisioning filename is the configuration filename. The default autoprovisioning filename is in the format of <mac address="">.xml.</mac>
	Supported filename extensions are .txt, and .xml. The current filename is denoted by an asterisk at the bottom of the <b>Autoprovisioning Page</b> . Enter up to 256 characters.
	A file may have any name with an xml extension. If a file name is entered, the device will look for the specified file name, and only that file.
Use tftp ?	The device will use TFTP (instead of http) to download autoprovisioning files.
Username ?	The username used to authenticate with an autoprovisioning server. Leave this field blank to disable authentication.
Password ?	The password used to authenticate with an autoprovisioning server. Leave this field blank to disable authentication.
Autoprovisioning Autoupdate (in minutes) ?	The reoccurring time (in minutes) the device will wait before checking for new autoprovisioning files. Enter up to 6 digits. A value of 0 will disable this option.
	Note: To use the auto update options, enable the Set Time with NTP Server on boot setting on the Device Configuration Page page (see Table 2-10).
Autoprovision at time (HHMMSS) ?	The time of day the device will check for a new autoprovisioning file. The time must be 6 characters in length and in HHMMSS format. An empty value will disable this option.
	Note: To use the auto update options, enable the Set Time with NTP Server on boot setting on the Device Configuration Page page (see Table 2-10).
Autoprovision when idle (in minutes > 10) ?	The idle time (in minutes greater than 10) after which the device will check for a new autoprovisioning file. Enter up to 6 digits. A value of 0 will disable this option.
	Note: To use the auto update options, enable the Set Time with NTP Server on boot setting on the Device Configuration Page page (see Table 2-10).
	Click the Save button to save your configuration settings.
Save	Note: You need to reboot for changes to take effect.

#### Table 2-23. Autoprovisioning Configuration Parameters

Web Page Item	Description
Reboot	Click on the <b>Reboot</b> button to reboot the system.
Toggle Help	Click on the <b>Toggle Help</b> button to see a short description of some of the web page items. First click on the <b>Toggle Help</b> button, and you will see a question mark (?) appear next to some of the web page items. Move the mouse pointer to hover over a question mark to see a short description of a specific web page item.
Download Template	Press the <b>Download Template</b> button to create an autoprovisioning file for the device. See Section 2.3.12.3, "Download Template Button"
Autoprovisioning log	The autoprovisioning log provides information about the latest autoprovisioning attempt (i.e. dhcp options and server accessed and files parsed or not found).

#### Table 2-23. Autoprovisioning Configuration Parameters (continued)

**Note** You must click on the **Save** button and then the **Reboot** button for the changes to take effect.

#### 2.3.12.1 Autoprovisioning

On boot, the device will look for an autoprovisioning server configured on the Autoprovisioning Page or specified as a DHCP option. When it finds a server, it will try to download the following (in order of preference):

- 1. The file configured on the autoprovisioning page.
- 2. A file named according to it's mac address (for example: 0020f7350058.xml).
- 3. The file 000000cd.xml

The file can be hosted using a standard web server (like apache, IIS, or nginx), and the device can download over SSL. The file server can be an ipv4 address in dotted decimal notation or a fully qualified domain name.

By default, the device will get its autoprovisioning server from the DHCP options. See Section 2.3.12.2, "Sample dhcpd.conf" for an example of how to configure dhcpd to offer autoprovisioning server addresses. If multiple options are set, the device will attempt to download autoprovisioning files from every server.

The DHCP option determines the protocol used to download the autoprovisioning file. The device looks for DHCP options in the following order:

- 1. Option 43 a FQDN or an IP address to an http server
- 2. Option 72 an IP address to an http server
- 3. Option 150 an IP address to a tftp server
- 4. Option 66 an IP address to a tftp server or if the entry starts with 'http', a FQDN to a http server.

You can download an autoprovisioning template file from the Autoprovisioning Page using the **Download Template** button (see Table 2-23). This file contains every configuration option that can be set on the board.

Autoprovisioning files can contain the whole configuration or a subset of this file. The first autoprovisioning file can also contain links to other autoprovisioning files.

The <MiscSettings> section contains some examples of additional autoprovisioning files:

<mi< th=""><th>scSettings&gt;</th></mi<>	scSettings>
	<devicename>CyberData Device</devicename>
</td <td><autoprovfile>common.xml</autoprovfile>&gt;</td>	<autoprovfile>common.xml</autoprovfile> >
</td <td><autoprovfile>sip_reg[macaddress].xml</autoprovfile>&gt;</td>	<autoprovfile>sip_reg[macaddress].xml</autoprovfile> >
</td <td><autoprovfile>audio[macaddress]</autoprovfile>&gt;</td>	<autoprovfile>audio[macaddress]</autoprovfile> >
</td <td><autoprovfile>device[macaddress].xml</autoprovfile>&gt;</td>	<autoprovfile>device[macaddress].xml</autoprovfile> >
<td>iscSettings&gt;</td>	iscSettings>

After downloading the first autoprovisioning file, the device will step through up to twenty additional <AutoprovFile> entries and try to download these files from the same server.

When the device finds a filename with the string **[macaddress**], it will replace this string with the mac address.

As an example, the user has configured option 43 on their DHCP server to "http://example.com," and on their server, they have a file named **0020f7123456.xml** (the same as the mac address of the device).

The file 0020f7123456.xml contains:

- 1. The device will first set it's name to 'Newname'.
- 2. It will try to download http://example.com/common.xml.
- 3. It will try to download http://example.com/sip\_reg0020f7123456.xml.
- 4. It will try to download http://example.com/audio0020f7123456.
- 5. It will try to download http://example.com/device.xml.

The device is reconfigured every time it downloads a new file so if two files configure the same option the last one will be the one that is saved.

It is possible to autoprovision autoprovisioning values (for example, to disable autoprovisioning or to configure a time to check for new files).

Checking for New Autoprovisioning files on boot but it can be configured to also check after a periodic delay, when idle, or at a specified time. When one of these options is set, the device will download its autoprovisioning files again, and if it finds any differences from the files it downloaded on boot, it will force a reboot and reconfigure.

The Autoprovisioning Filename The autoprovisioning filename can contain a file, a file path, or a directory.

Autoprovisioning Filename	Autoprovisioning Server	File Downloaded
config.xml	10.0.1.3	10.0.1.3/config.xml
/path/to/config.xml	10.0.1.3	10.0.1.3/path/to/config.xml
subdirectory/path/	10.0.1.3	10.0.1.3/subdirectory/path/0020f7020002.xml

#### Table 2-24. Autoprovisioning File Name

TFTP options may not support subdirectories. If a directory is set in the filename field, firmware and audio files will also be downloaded from this subdirectory.

If the filename ends with a forward slash "/," the device will treat it as a subdirectory.

For example:

The autoprovisioning server is set to "https://www.example.com"

The autoprovisioning filename is set to "cyberdata/"

On boot, the device will try to download:

https://www.example.com/cyberdata/0020f7123456.xml

...and if this fails:

https://www.example.com/cyberdata/000000cd.xml

Audio files and firmware files will also add "cyberdata" to the URL before downloading.

#### Autoprovisioning <FirmwareSettings>

```
Firmware Updates <FirmwareFile>505-uImage-ceilingspeaker</FirmwareFile>
<FirmwareServer>10.0.1.3</FirmwareServer>
<OutdoorIntercom30>firmware_file_v9.3.0</OutdoorIntercom30>
<OutdoorIntercom31>firmware_file_v10.3.0</OutdoorIntercom31>
<CallButton31>firmware_file_v10.3.0</CallButton31>
</FirmwareSettings>
```

In the <FirmwareSettings> section, the <FirmwareServer> element can be used to specify a different server for hosting firmware files. When this element is not available, the device will try to download the file from the autoprovisioning server.

The device will use the filename to determine when to autoprovision firmware updates. The default configuration is blank, so the first time you set a value in your autoprovisioning file, it may force a firmware update even if the firmware version has not changed.

The <FirmwareFile> name can contain path elements (i.e. /path/to/firmware/10.3.0-uImage-[device\_file\_name]).

The device also supports product strings for downloading firmware. If the <FirmwareFile> option is not set, the device will look for its particular product string for a firmware filename. In this way, a generic autoprovisioning file can specify unique firmware for a range of products.

The list of valid product strings:

<ProductString>CallButton31</ProductString> <ProductString>EmergencyIntercom31</ProductString> <ProductString>IndoorIntercom31SW</ProductString> <ProductString>IndoorIntercom31SW</ProductString> <ProductString>IndoorKeypad31</ProductString> <ProductString>OfficeRinger31</ProductString> <ProductString>OfficeRinger31SW</ProductString> <ProductString>OfficeRinger31SW</ProductString> <ProductString>OutdoorIntercom31SW</ProductString> <ProductString>OutdoorIntercom31</ProductString> <ProductString>OutdoorIntercom31</ProductString> <ProductString>OutdoorIntercom31SW</ProductString> <ProductString>OutdoorKeypad31</ProductString> <ProductString>OutdoorKeypad31</ProductString> <ProductString>Strobe31</ProductString> <ProductString>Strobe31</ProductString></productString></productString></productString></productString></productString></productString></productString></productString></productString></productString></productString></productString></productString></productString></productString></productString></productString></productString></productString></productString></productString></productString> Autoprovisioning He Example 1

bining Here's a simple example using four autoprovisioning files to configure two devices:

We boot up two devices with mac addresses 00:20:f7:02:00:01 and 00:20:f7:02:00:02 (Device1 and Device2).

The devices are set to use DHCP and that server provides an autoprovisioning server address with option 43. The address is "https://autoprovtest.server.net." The files on this server are as follows:

#### 00000cd.xml

```
<MiscSettings>
<DeviceName>CyberData Autoprovisioned</DeviceName>
<AutoprovFile>sip_common.xml</AutoprovFile>
<AutoprovFile>sip_[macaddress].xml</AutoprovFile>
</MiscSettings>
```

#### sip\_common.xml

```
<SIPSettings>
<SIPServer>10.0.0.253</SIPServer>
<RemoteSIPPort>5060</RemoteSIPPort>
</SIPSettings>
```

#### sip\_0020f7020001.xml

```
<SIPSettings>
<SIPUserID>198</SIPUserID>
<SIPAuthPassword>ext198</SIPAuthPassword>
<DialoutExtension0>204</DialoutExtension0>
</SIPSettings>
```

#### sip\_0020f7020002.xml

```
<SIPSettings>
<SIPUserID>500</SIPUserID>
<SIPAuthPassword>ext500</SIPAuthPassword>
<DialoutExtension0>555</DialoutExtension0>
</SIPSettings>
```

On boot, Device1 tries to fetch the file **0020f7023614.xml** from "https://autoprovtest.server.net". This file is not available, so device1 then tries to fetch the file **000000cd.xml**. This file exists, and Device1 parses the three elements.

- 1. Device1 changes its device name to CyberData Autoprovisioned.
- Device1 finds an AutoprovFile element containing the filename sip\_common.xml. The device downloads sip\_common.xml from "https://autoprovtest.server.net," and imports this configuration, setting the sip server to 10.0.0.253 and the remote port to 5060.3.
- 3. Device1 finds another AutoprovFile element containing the filename sip\_[macaddress].xml. The device replaces the [macaddress] with its own mac address value creating sip\_0020f7020001.xml, downloads this file from "https://autoprovtest.server.net," and imports this configuration. This sets the user ID to 198, the password to ext198, and the dialout extension to 204. Device1 is now finished with autoprovisioning.

Device2 goes through the same steps by setting its device name to **CyberData Autoprovisioned**, its SIP server to **10.0.0.253**, and its port to **5060**. When Device2 "sees" **sip\_[macaddress].xml**, Device2 replaces it with its own mac address and downloads **sip\_0020f7020002.xml** from "https://autoprovtest.server.net." Device2 sets the SIP User ID to **500**, the password to **ext500**, and the dialout extension to **555**.

Autoprovisioning Here is another example of setting up your autoprovisioning files: Example 2

We boot up two devices with mac addresses **00:20:f7:02:00:01** and **00:20:f7:02:00:02** (Device1 and Device2) and boot them on a network with a DHCP server configured with an autoprovisioning server at **10.0.1.3** on option **150**. Our TFTP server has three files:

#### 0020f7020001.xml

```
<MiscSettings>
<AutoprovFile>common_settings.xml</AutoprovFile>
</MiscSettings>
<SIPSettings>
<SIPUserID>198</SIPUserID>
<SIPAuthPassword>ext198</SIPAuthPassword>
<DialoutExtension0>204</DialoutExtension0>
</SIPSettings>
```

#### 0020f7020002.xml

```
<MiscSettings>
<AutoprovFile>common_settings.xml</AutoprovFile>
</MiscSettings>
<SIPSettings>
<SIPUserID>500</SIPUserID>
<SIPAuthPassword>ext500</SIPAuthPassword>
<DialoutExtension0>555</DialoutExtension0>
</SIPSettings>
```

#### common\_settings.xml

```
<MiscSettings>
<DeviceName>CyberData Autoprovisioned</DeviceName>
</MiscSettings>
<SIPSettings> <SIPServer>10.0.0.253</SIPServer>
<RemoteSIPPort>5060</RemoteSIPPort>
</SIPSettings>
```

1. On boot, Device1 downloads **0020f7020001.xml** from **10.0.1.3** and imports these values. The SIP User ID is **198**, the password is **ext198**, and the dialout extension is **204**.

2. Device1 then gets the filename **common\_settings.xml** from the AutoprovFile element and downloads this file from the TFTP server at **10.0.1.3**. and imports these settings. The device name is set to **CyberData Autoprovisioned**, the SIP server is set to **10.0.0.253**, and the port is set to **5060**.

Device2 does the same except it downloads **0020f7020002.xml** on boot and imports these values instead. The Sip User ID is **500**, password is **ext500**, and dialout extension is **555**. Device2 then downloads the **common\_settings.xml** file and imports those values. The device name is set to **CyberData Autoprovisioned**, the SIP server is set to **10.0.253**, and the port is set to **5060**.

 XML Files
 XML files can contain <AutoprovFile> elements. If multiple DHCP options are specified, the device will try to download autoprovisioning files from each in turn. The device will only look for

 <AutoprovFile> elements in the first file downloaded from each server. You can specify up to 20

 <AutoprovFile> elements in the first autoprovisioning file.

There are numerous ways to change an element of the **configuration(xml)** file. Using **sip ext** as an example, the extension can be changed:

Within the device-specific xml, i.e. **[macaddress].xml**, via the AutoprovFile element:<SIPSettings>/<SIPExt>

From the device specific xml, a pointer to a sip\_common file

From the device specific xml, a pointer to the device specific sip\_[macaddress].xml

From the common file, a pointer to sip\_common.xml

From the common file, a pointer to the device specific (sip\_[macaddress].xml)

Audio Files Audio files are stored in non-volatile memory and an autoprovisioned audio file will only have to be downloaded once for each device. Loading many audio files to the device from the web page could cause it to appear unresponsive. If this happens, wait until the transfer is complete and then refresh the page.

The device uses the file name to determine when to download a new audio file. This means that if you used autoprovisioning to upload a file and then changed the contents of this file at the TFTP server, the device will not recognize that the file has changed (because the file name is the same).

Since audio files are stored in non-volatile memory, if autoprovisioning is disabled after they have been loaded to the board, the audio file settings will not change. You can force a change to the audio files on the board by clicking **Restore Default** on the **Audio Configuration** page or by changing the autoprovisioning file with "**default**" set as the file name.

#### 2.3.12.2 Sample dhcpd.conf

```
#
# Sample configuration file for ISC dhcpd for Debian
#
ddns-update-style none;
option domain-name "voiplab";
option domain-name-servers 10.0.0.252;
option option-150 code 150 = ip-address;
option ntp-servers north-america.pool.ntp.org;
option space VendorInfo;
option VendorInfo.text code 10 = { text };
authoritative;
log-facility local7;
subnet 10.0.0.0 netmask 255.0.0.0 {
    max-lease-time 3600;
   default-lease-time 3600;
   option routers
                                   10.0.0.1;
   option subnet-mask
                                   255.0.0.0;
                                   "voiplab";
   option domain-name
                                   10.0.0.252;
   option domain-name-servers
    option time-offset
                                   -8;
                                                   # Pacific Standard Time
                                                                      # OPTION 72
#
     option www-server
                                    99.99.99.99;
                                      "10.0.1.52";
                                                                     # OPTION 66
#
     option tftp-server-name
#
     option tftp-server-name
                                     "http://test.cyberdata.net";
                                                                     # OPTION 66
                                                                     # OPTION 150
#
     option option-150
                                      10.0.0.252;
# These two lines are needed for option 43
     vendor-option-space VendorInfo;
                                                                     # OPTION 43
#
#
     option VendorInfo.text "http://test.cyberdata.net";
                                                                     # OPTION 43
```

range 10.10.0.1 10.10.2.1; }

#### 2.3.12.3 Download Template Button

The **Download Template** button allows the user to generate, download, edit, and then store an autoprovisioning template on the server that serves the autoprovisioning files for devices.

To generate an autoprovisioning template directly from the device, complete the following steps:

- 1. On the **Autoprovisioning** page, click on the **Download Template** button.
- 2. You will see a window prompting you to save a configuration file (**.xml**) to a location on your computer (Figure 2-41). The configuration file is the basis for the default configuration settings for your unit).
- 3. Choose a location to save the configuration file and click on OK. See Figure 2-41.

😣 Openi	ng 0020f702bf18.xml	+ 🗆 ×				
You have chosen to open:						
<b>0020f702bf18.xml</b> which is: XML document (11.3 KB) from: https://10.10.1.50						
What should Firefox do with this file?						
Open with	Text Editor (default)	•				
○ <u>S</u> ave File						
Do this <u>a</u> utomatically for files like this from now on.						
	Cancel	ОК				

#### Figure 2-41. Configuration File

- 4. At this point, you can open and edit the autoprovisioning template to change the configuration settings in the template for the unit.
- 5. You can then upload the autoprovisioning file to a TFTP or HTTP server where the file can be loaded onto other devices.

# 2.4 Upgrade the Firmware and Reboot the Singlewire InformaCast Loudspeaker Amplifier (PoE)

#### 2.4.1 Downloading the Firmware

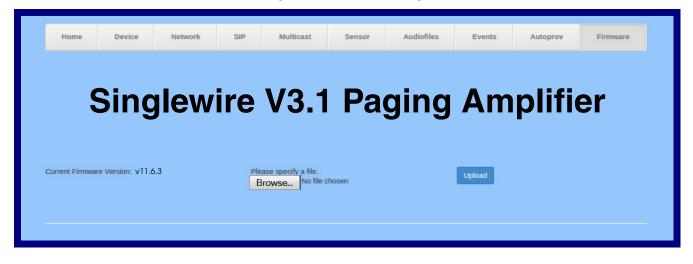
To download the firmware to your computer:

- 1. Download the latest firmware file from the **Downloads** tab at the following webpage: <u>http://www.cyberdata.net/voip/011407/</u>
- 2. Unzip the firmware version file. This file may contain the following:
- Firmware file
- Release notes
- 3. Log in to the home page as instructed in Section 2.3.4, "Log in to the Configuration Home Page".
- 4. Click on the Firmware menu button to open the Firmware page. See Figure 2-42.



**Caution** *Equipment Hazard*: CyberData strongly recommends that you first reboot the device before attempting to upgrade the firmware of the device. See Section 2.4.2, "Reboot the Device".

#### Figure 2-42. Firmware Page



- 5. Click on the Browse button, and then navigate to the location of the firmware file.
- 6. Select the firmware file.
- 7. Click on the **Upload** button.
- **Note** Do not reboot the device after clicking on the **Upload** button.

- **Note** This starts the upgrade process. Once the Singlewire InformaCast Loudspeaker Amplifier (PoE) has uploaded the file, the **Uploading Firmware** countdown page appears, indicating that the firmware is being written to flash. The Singlewire InformaCast Loudspeaker Amplifier (PoE) will automatically reboot when the upload is complete. When the countdown finishes, the **Firmware** page will refresh. The uploaded firmware filename should be displayed in the system configuration (indicating a successful upload and reboot).
- 8. Table 2-25 shows the web page items on the **Firmware** page.

Table	2-25.	Firmware	Parameters
-------	-------	----------	------------

Web Page Item	Description
Current Firmware Version	Shows the current firmware version.
Browse	Use the <b>Browse</b> button to navigate to the location of the firmware file that you want to upload.
Upload	Click on the <b>Upload</b> button to automatically upload the selected firmware and reboot the system.

### 2.4.2 Reboot the Device

To reboot a Singlewire InformaCast Loudspeaker Amplifier (PoE), log in to the web page as instructed in Section 2.3.4, "Log in to the Configuration Home Page".

1. Click on the **Reboot** button on the **Home** page (Figure 2-43). A normal restart will occur.

Figure 2-43. Home Page

Serial Number:       407100001       Username:       admin       Browse       No file chosen         Mac Address:       00:2017:03:6d:9a       Password:       Import Config       Import Config         PAddressing:       DHCP       Firmware Version:       V11.6.3       Export Settings         IP Address:       10.10.0.77       Subnet Mask:       255.0.0.0       Singlewire Status       Export Settings         Default Gateway:       10.0.1.56       Boot Time:       2016/08/09 10:27:44       Export Config         DNS Server 1:       10.0.1.56       Boot Time:       2016/08/09 10:28:53       Export Config         SIP Mode:       Enabled       Configuration File: InformaCastSpeaker.cfg       Export Config         SIP Mode:       Enabled       Doi.1.196       Export Config         Multicast Mode:       Disabled       B'casts Accepted: 0       B'casts Accepted: 0         Brightringer:       Disabled       B'casts Accepted: 0       B'casts Active: 0         Primary SIP Server: Not registered       Save       Reboot       Toggle Help         Backup Server 1:       No tregistered       Save       Toggle Help	Current Status       Admin Settings       Import Settings         weial Number:       407100001       Usemame:       admin         tac Address:       00:2017/03:649:a       Desmame:       admin         mware Version:       V11.6.3       Desmame:       admin         P Address:       00:2017/03:649:a       Desmame:       admin         P Addressin:       01:00.77       Desmoord:       Desmoord:       moort Config         P Address:       250.00       Desmoord:       Desmoord:       moort Config         NS Server 1:       10:0.156       Boot Time:       2016/08/09 10:27:44       Export Settings         NNS Server 2:       Moort Time:       2016/08/09 10:27:44       Export Config         Witt Reporting:       Disabled       Configuration File: InformaCastSpeaker.ctg       Export Config         Weitt Reporting:       Disabled       Exasts Rejected: 8       Exasts Rejected: 9       Exasts Active: 9         Wittmary SIP Server:       Not registered       Exasts Rejected: 8       Exasts Active: 9       Togle Help	Current Status Admin Settings   ac Address: 00:2017:03:6d:9a   mware Version: V11.6.3   -Address:: 00:2017:03:6d:9a   mware Version: V11.6.3   -Address:: 0100.0.77   ubnet Mask:: 255.0.0   efault Gateway: 10.0.1.76   MS Server 1: 10.0.1.56   NS Server 2: Configuration File: Informa CastSpeaker.cfg   Pidicast Mode: Disabled   ubitast	Current Status Admin Settings   ac Address: 00:2077:03:6d:9a   mware Version: V11.6.3   Address:: 00:2077:03:6d:9a   rmware Version: V11.6.3   Address:: 0100.0.77   ubnet Mask:: 255.0.0   efault Gateway: 10.0.1.76   ubnet Mask:: 255.0.0   efault Gateway: 10.0.1.56   NS Server 1: 10.0.1.56   NS Server 2: Configuration File: InformaCastSpeaker.cfg   P Mode: Disabled   ubitast Mode: Disabled   etatist Reporting: Disabled   waty SP Server: Not registered Save Report   ackup Server 1: Not registered   ackup Server 2: Not registered	Current Status       Admin Settings       Import Settings         ariad Number:       407100001       Usemame:       admin         ac Address:       00:20:07:03:56/9a       Password:       Browse       No file chosen         PAddress:       00:20:07:03:56/9a       Confirm Password:       Import Config         Paddress:       01:00:07       Confirm Password:       Import Config         Vaddress:       25:0.00       Estige Setup       Setup I:       Confirm Password:       Import Config         Server 1:       10:0.156       Bot Time:       2016/08/09 10:27:44       Export Settings       Export Settings         NS Server 1:       No.0.156       Bot Time:       2016/08/09 10:27:44       Export Config       Export Config         Pi Mode:       Enabled       Configuration File: InformaCastSpeaker.cfg       Export Config       Export Config         Went Reporting:       Disabled       Ecasts Rejected: 0       Ecasts Accepted: 0       Ecasts Accepted: 0         Brittingt SP Server: Not registered       Save       Rebot       Togle Help	Current Status       Admin Settings       Import Settings         erial Number:       407100001       Username:       admin         ac Address:       00:2017:03:8d:9a       Desword:       Desword:         imware Version:       V11.6.3       Confim Password:       Import Config         Addressing:       DHCP       Confim Password:       Import Config         Address:       10.10.077       Confim Password:       Import Config         Vaddress:       10.0.0.156       Boot Time:       2016/08/09 10:27:44       Export Settings         NS Server 2:       Insoled       Configuration File:       2016/08/09 10:27:44       Export Config         Iticast Mode:       Disabled       Configuration File:       InformaCastSpeaker.cfg       Export Config         Ightringer:       Disabled       Broasts Accepted: 0       Broasts Accepted: 0       Broasts Accepted: 0         Broasts Accepted:       0       Broasts Accepted: 0       Broasts Accepted: 0       Broasts Accepted: 0
Serial Number:       407100001       Username:       admin       Browse       No file chosen         Mac Address:       00:20:17:03:6d:9a       Password:       Import Config         Firmware Version:       V11.6.3       Confirm Password:       Import Config         IP Address:       10.10.0.77       Subnet Mask:       255.0.0       Export Settings         Default Gaveway:       10.0.1.76       Boot Time:       2016/08/09 10:27:44       Export Config         DNS Server 1:       10.0.1.56       Boot Time:       2016/08/09 10:27:44       Export Config         DNS Server 2:       In Server 1:       10.0.1.56       Boot Time:       2016/08/09 10:27:44       Export Config         SIP Mode:       Enabled       In Server 1:       10.0.1.96       Export Config       Export Config         SIP Mode:       Enabled       Configuration File: InformaCastSpeaker.cfg       Export Config       Export Config         Nightringer:       Disabled       B'casts Accepted:       0       B'casts Accepted:       0         Backup Server 1:       Not registered       B'casts Active:       0       Configuration File:       Export Config         Primary SIP Server:       Int registered       Save       Toggle Help       Save       Toggle Help     <	Visit of the control of the contro	erial Number: 407100001 erial Number: 407100001 username: admin Password:	erial Number: 407100001 erial Number: 407100001 username: adminBrowse No file chosen Password: rmware Version: v11.6.3 PAddressing: DHCP PAddress: 10.10.0.77 ubnet Mask: 255.0.0 Fault Gateway: 10.0.156 NS Server 1: 10.0.156 NS Server 2: P Mode: Enabled ulticast Mode: Disabled Disabl	erial Number: 407100001 lac Address: 00:2017:03:5d:9a immware Version: V11.6.3 Address: 10.10.0.77 whete Mask: 255.0.0 efault Gateway: 10.0.0.1 NS Server 1: 10.0.1.56 NS Server 2: IP Mode: Enabled Utiticast Mode: Disabled Boot Time: 2016/08/09 10:27:44 Current Time: 2016/08/09 10:27:44 Export Config IP Mode: Enabled Utiticast Mode: Disabled B'casts Active: 0 Fightinger: Disabled B'casts Active: 0 Fightinger: Not registered ackup Server 1: Not registered Save Rebot: Toggle Help	erail Number:       407100001       Username:       admin       Browse       No file chosen         lac Address:       00:2017:03:6d:9a       Password:       Import Config         Paddressing:       DHCP       Confirm Password:       Import Config         P Address:       10.10.0.77       Singlewire Status       Export Settings         efault Gateway:       10.0.15       Boot Time:       2016/08/09 10:27:44       Export Config         NS Server 1:       10.0.156       Boot Time:       2016/08/09 10:28:53       Export Config         IV P Mode:       Enabled       Corfiguration File: InformaCastSpeaker.cfg       Export Config         Iviticast Mode:       Disabled       B'casts Accepted: 0       B'casts Accepted: 0         Broasts Accepted:       0       B'casts Accepted: 0       B'casts Accepted: 0         B'casts Accepted:       0       B'casts Accepted: 0       B'casts Accepted: 0         B'casts Accepted:       0       B'casts Accepted: 0       B'casts Accepted: 0         B'casts Accepted:       0       B'casts Accepted: 0       B'casts Accepted: 0
Serial Number:       407100001       Username:       admin       Browse       No file chosen         Mac Address:       00:20:17:03:6d:9a       Password:       Import Config       Import Config         Firmware Version:       V11.6.3       Confirm Password:       Import Config       Export Settings         IP Address:       10.10.0.77       Subnet Mask:       255.0.0       Singlewire Status       Export Settings         DNS Server 1:       10.0.1.56       Boot Time:       2016/08/09 10:27:44       Export Config         DNS Server 2:       Isabled       Corrent Time:       2016/08/09 10:28:53       Export Config         SIP Mode:       Enabled       10.0.1.196       Export Config       Export Config         Multicast Mode:       Disabled       Configuration File: InformaCastSpeaker.cfg       Event Reporting:       Disabled       B'casts Accepted: 0         Nightringer:       Disabled       B'casts Accepted: 0       B'casts Active: 0       B'casts Active: 0         Primary SIP Server: Not registered       Save       Toggle Help       Toggle Help	Visit of the control of the contro	erial Number: 407100001 erial Number: 407100001 username: admin Password:	erial Number: 407100001 erial Number: 407100001 username: adminBrowse No file chosen Password: rmware Version: v11.6.3 PAddressing: DHCP PAddress: 10.10.0.77 ubnet Mask: 255.0.0 Fault Gateway: 10.0.156 NS Server 1: 10.0.156 NS Server 2: P Mode: Enabled ulticast Mode: Disabled Disabl	erial Number: 407100001 lac Address: 00:2017:03:5d:9a immware Version: V11.6.3 Address: 10.10.0.77 whete Mask: 255.0.0 efault Gateway: 10.0.0.1 NS Server 1: 10.0.1.56 NS Server 2: IP Mode: Enabled Utiticast Mode: Disabled Boot Time: 2016/08/09 10:27:44 Current Time: 2016/08/09 10:27:44 Export Config IP Mode: Enabled Utiticast Mode: Disabled B'casts Active: 0 Fightinger: Disabled B'casts Active: 0 Fightinger: Not registered ackup Server 1: Not registered Save Rebot: Toggle Help	erail Number:       407100001       Username:       admin       Browse       No file chosen         lac Address:       00:2017:03:6d:9a       Password:       Import Config         Paddressing:       DHCP       Confirm Password:       Import Config         P Address:       10.10.0.77       Singlewire Status       Export Settings         efault Gateway:       10.0.15       Boot Time:       2016/08/09 10:27:44       Export Config         NS Server 1:       10.0.156       Boot Time:       2016/08/09 10:28:53       Export Config         IV P Mode:       Enabled       Corfiguration File: InformaCastSpeaker.cfg       Export Config         Iviticast Mode:       Disabled       B'casts Accepted: 0       B'casts Accepted: 0         Broasts Accepted:       0       B'casts Accepted: 0       B'casts Accepted: 0         B'casts Accepted:       0       B'casts Accepted: 0       B'casts Accepted: 0         B'casts Accepted:       0       B'casts Accepted: 0       B'casts Accepted: 0         B'casts Accepted:       0       B'casts Accepted: 0       B'casts Accepted: 0
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Mode:       Disabled       Broats Accepte: 0       Broats Accepte: 0       Export Config         ghtringer:       Disabled       Broats Accepte: 0       Broats Accepte: 0       Broats Accepte: 0         gistabled       Broats Accepte: 0       Broats Accepte: 0       Broats Accepte: 0       Broats Accepte: 0         gistastered       Broats Accepte: 0       Broats Accepte: 0       Broats Accepte: 0       Broats Accepte: 0         gistastered       Save       Reboot       Toggle Help	arial Number:       407100001       Username:       admin       Browse       No file chosen         ac Address:       00:2017:03:6d:9a       Password:       Import Config         rmware Version:       V11.6.3       Confirm Password:       Import Config         Address:       10.10.0.77       Singlewire Status       Export Settings         Address:       10.10.0.77       Username:       2016/08/09 10:27:44       Export Config         NS Server 1:       10.0.1.56       Boot Time:       2016/08/09 10:27:44      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### 2.5 Command Interface

Some functions on the device can be activated using simple POST commands to the web interface. The examples in Table 2-26 use the free unix utility, **wget**, but any program that can send http POST commands to the device should work.

### 2.5.1 Command Interface Post Commands

**Note** These commands require an authenticated session (a valid username and password to work).

Device Action	HTTP Post Command <sup>a</sup>
Trigger relay (for configured delay)	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/command.cgi"post-data "test_relay=yes"
Place call to extension (example: extension 130)	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/command.cgi"post-data "call=130"
Terminate active call	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/command.cgi"post-data "terminate=yes"
Force reboot	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/command.cgi"post-data "reboot=yes"
Test Audio button	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/command.cgi"post-data "test_audio=yes"
Announce IP address	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/command.cgi"post-data "speak_ip_address=yes"
Play the "0" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_0=yes"
Play the "1" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_1=yes"
Play the "2" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_2=yes"
Play the "3" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_3=yes"
Play the "4" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_4=yes"

#### Table 2-26. Command Interface Post Commands

Device Action	HTTP Post Command <sup>a</sup>
Play the "5" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_5=yes"
Play the "6" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_6=yes"
Play the "7" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_7=yes"
Play the "8" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_8=yes"
Play the "9" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_9=yes"
Play the "Dot" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_d=yes"
Play the "Audio Test" audio file (from Audio Config)	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_audiotest=yes"
Play the "Page Tone" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_pagetone=yes"
Play the "Your IP Address Is" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_youripaddressis=yes"
Play the "Rebooting" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_rebooting=yes"
Play the "Restoring Default" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_restoringdefault=yes"
Play the "Ringback tone" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_ringback=yes"
Play the "Ring tone" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_ringtone=yes"
Play the "Night Ring" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "play_nightring=yes"
Delete the "0" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_0=yes"
Delete the "1" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_1=yes"

#### Table 2-26. Command Interface Post Commands (continued)

Device Action	HTTP Post Command <sup>a</sup>
Delete the "2" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_2=yes"
Delete the "3" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_3=yes"
Delete the "4" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_4=yes"
Delete the "5" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_5=yes"
Delete the "6" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_6=yes"
Delete the "7" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_7=yes"
Delete the "8" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_8=yes"
Delete the "9" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_9=yes"
Delete the "Audio Test" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_audiotest=yes"
Delete the "Page Tone" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_pagetone=yes"
Delete the "Your IP Address Is" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_youripaddressis=yes"
Delete the "Rebooting" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_rebooting=yes"
Delete the "Restoring Default" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_restoringdefault=yes"
Delete the "Ringback tone" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_ringback=yes"
Delete the "Ring tone" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_ringtone=yes"
Delete the "Night Ring" audio file	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/audiofiles.cgi"post-data "delete_nightring=yes"

#### Table 2-26. Command Interface Post Commands (continued)

Device Action	HTTP Post Command <sup>a</sup>
Trigger the Sensor Test (Sensor Config page)	wgetuser adminpassword adminauth-no-challengeno- check-certificatequiet -O /dev/null "https://10.0.3.71/cgi- bin/sensor.cgi"post-data "test=yes"

#### Table 2-26. Command Interface Post Commands (continued)

a. Type and enter all of each http POST command on one line.

## Appendix A: Mounting the Amplifier

### A.1 Mount the Amplifier

Before you mount the enclosure, make sure that you have received all of the parts for each enclosure. Refer to Table A-1.

Quantity	Part Name	Illustration
1	Mounting Accessory Kit which includes:	
	(3) Plastic Ribbed Anchors	
	(3) #8 Sheet Metal Screws	151147
		#8x1.25" Truss Head Phillips Sheet Metal Screw (3x) 531032
		A ame
		Plastic Ribbed Anchor (3x)

Table A-1. Wall Mounting Components (Part of the Accessory Kit)

- **Note** The Singlewire InformaCast Loudspeaker Amplifier (PoE) was designed for indoor use. Mounting it on the external part of a building will require additional hardware for weatherproofing, cabling access, and lightning suppression. Consult a certified electrician for details.
- Note For mounting, use the three #8 SHEET METAL SCREWS to secure the enclosure.

### A.1.1 Mounting the Enclosure

To mount the enclosure:

- 1. Prepare holes for the screws.
- 2. Plug in the power adapter and use the **Power (PWR)** LED to verify that the power is on.
- 3. Plug the ethernet cable into the device. The Link/Activity (Link/Act.) LED verifies the network connection.
- 4. For wall mounting, use the three #8 x 1-1/4-inch Truss Head Phillip screws to secure the speaker. See Figure A-1.



#### Figure A-1. Mounting the Enclosure

## Appendix B: Setting up a TFTP Server

### B.1 Set up a TFTP Server

Autoprovisioning requires a TFTP server for hosting the configuration file.

#### B.1.1 In a LINUX Environment

To set up a TFTP server on LINUX:

- 1. Create a directory dedicated to the TFTP server, and move the files to be uploaded to that directory.
- Run the following command where /tftpboot/ is the path to the directory you created in Step 1: the directory that contains the files to be uploaded. For example:

in.tftpd -l -s /tftpboot/your\_directory\_name

#### B.1.2 In a Windows Environment

You can find several options online for setting up a Windows TFTP server. This example explains how to use the Solarwinds freeware TFTP server, which you can download at:

http://www.cyberdata.net/support/voip/solarwinds.html

To set up a TFTP server on Windows:

- 1. Install and start the software.
- 2. Select File/Configure/Security tab/Transmit Only.
- 3. Make a note of the default directory name, and then move the firmware files to be uploaded to that directory.

## Appendix C: Troubleshooting/Technical Support

### C.1 Frequently Asked Questions (FAQ)

To see a list of frequently asked questions for your product, click on the **FAQs** tab at the following webpage:

http://www.cyberdata.net/voip/011407/

### C.2 Documentation

The documentation for this product is released in an English language version only.

To download PDF copies of CyberData product documentation, click on the **Downloads** tab at the following webpage:

http://www.cyberdata.net/voip/011407/

### C.3 Contact Information

Contact CyberData Corporation 3 Justin Court Monterey, CA 93940 USA <u>www.CyberData.net</u> Phone: 800-CYBERDATA (800-292-3732) Fax: 831-373-4193

Sales Sales 831-373-2601, Extension 334

TechnicalThe fastest way to get technical support for your VoIP product is to submit a VoIP TechnicalSupportSupport form at the following website:

#### http://support.cyberdata.net/

The Support Form initiates a ticket which CyberData uses for tracking customer requests. Most importantly, the Support Form tells us which PBX system and software version that you are using, the make and model of the switch, and other important information. This information is essential for troubleshooting. Please also include as much detail as possible in the **Comments** section of the Support Form.

Phone: (831) 373-2601, Extension 333

### C.4 Warranty and RMA Information

The most recent warranty and RMA information is available at the following website address:

http://support.cyberdata.net/

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