

# VoIP Flush-Mount Indoor Intercom with Keypad Operations Guide

Part #011123

Document Part #930854D for Firmware Version 10.2.6

> CyberData Corporation 3 Justin Court Monterey, CA 93940 (831) 373-2601

#### PoE VoIP Intercom Operations Guide 930854D Part # 011123

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# **Revision Information**

Revision 930854D, which corresponds to firmware version 10.2.6, was released on June 18, 2014, and has the following changes:

- Updates Section 2.3.5, "Activity and Link LEDs"
- Updates Section 2.4.3, "Log in to the Configuration Home Page" with a new URL for the discovery utility webpage

# Browsers Supported

The following browsers have been tested against firmware version 10.2.6:

- 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.

GENERAL ALERT	Warning Electrical Hazard: 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.

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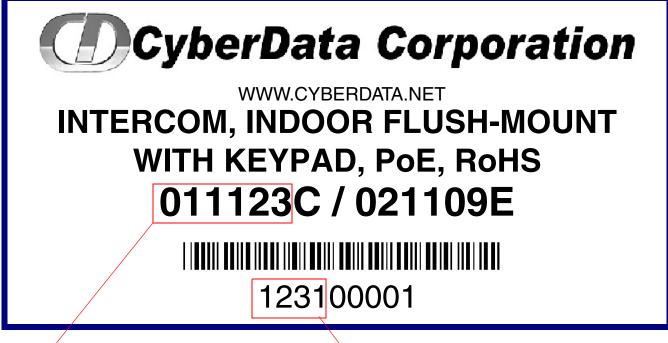
# 1 Product Overview

# 1.1 How to Identify This Product

To identify the Flush-Mount Indoor Intercom with Keypad, 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 **011123**.
- The serial number on the label should begin with **1231**.

Figure 1-1. Model Number Label



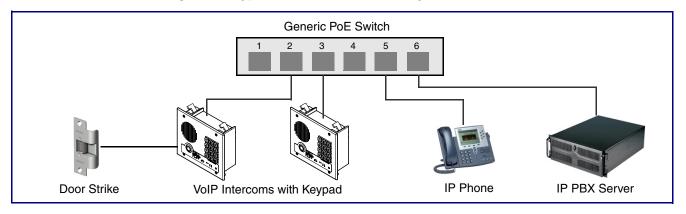
Model number

Serial number begins with **1231** 

# 1.2 Typical System Installation

The Voice-over-IP (VoIP) Intercom is a Power-over-Ethernet (PoE 802.3af) and Voice-over-IP (VoIP) two-way communications device that easily connects into existing local area networks (LANs) with a single cable connection. The intercom is compatible with most SIP-based IP PBX servers that comply with SIP RFC 3261.

Figure 1-2 illustrates how the Flush-Mount Indoor Intercom with Keypad can be installed as part of a VoIP phone system.



#### Figure 1-2. Typical Installation—Door Entry/Access Control

GENERAL ALERT	Warning <i>Electrical Hazard:</i> The VoIP Intercom 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.

# 1.3 Product Features

The VoIP Flush-Mount Indoor Intercom with Keypad has the following features:

- 12-key keypad with backlight
- Programmable speed dial
- Optional Weather Shroud for even greater weather protection
- Supports SRST (Survivable Remote Site Telephony) in a Cisco environment. SRST parameters are entered statically into the CyberData product's internal webpage.
- SIP
- Dual speeds of 10 Mbps and 100 Mbps
- 802.3af compliant
- Adaptive full duplex voice operation
- Network/Web management
- Network adjustable speaker volume adjustment
- Network configurable door or intrusion sensor settings
- Network configurable relay activation settings
- Dial Out Extension supports the addition of comma delimited pauses before sending additional DTMF tones
- Network configurable microphone input sensitivity adjustment
- Network downloadable product firmware
- Doubles as a paging speaker
- Call button
- Call activity indicator (light)
- One dry contact relay for auxiliary control
- Autoprovisioning
- Configurable audio files
- Night Ringer
- Peer-to-peer capable
- Door closure and tamper alert signal
- Optional Torx screws with driver kit
- An active call is indicated by the Call Button LED blinking at one second intervals.

# 1.4 Supported Protocols

The Intercom supports:

- SIP
- HTTP Web-based configuration
- Provides an intuitive user interface for easy system configuration and verification of Intercom operations.
- DHCP Client
- Dynamically assigns IP addresses in addition to the option to use static addressing.
- TFTP Client
- Facilitates hosting for the Autoprovisioning configuration file.
- RTP
- RTP/AVP Audio Video Profile
- Audio Encodings PCMU (G.711 mu-law) PCMA (G.711 A-law) Packet Time 20 ms

# 1.5 Supported SIP Servers

The following link contains information on how to configure the device for the supported SIP servers:

http://www.cyberdata.net/support/server/index.html

# 1.6 Product Specifications

#### **Table 1. Product Specifications**

Category	Specification
Output	1 Watt Peak Power
Ethernet I/F	10/100 Mbps
Protocol	SIP RFC 3261 Compatible
Power Input	PoE 802.3af compliant or 8 to 12VDC at 1000mA
Operating Temperature	-40° C to +55° C (-40° F to 131° F)
Payload Types	G711, A-law and μ-law
Dimensions	6.5" x 4.5" x 1.5" (H x W x D)
Warranty	2 years limited
Part Number	011123
Auxiliary Relay	1A at 30 VDC

# 2 Installing the Flush-Mount Indoor Intercom with Keypad

# 2.1 Parts List

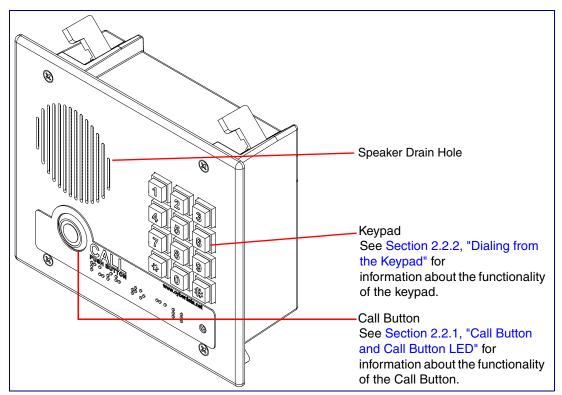
Table 2-1 illustrates the parts for the Flush-Mount Indoor Intercom with Keypad.

Quantity	Part Name	Illustration
1	Flush-Mount Indoor Intercom with Keypad Assembly	
1	Installation Quick Reference Guide	Varianti suo Jonne Valla Supporter Glash Schort (San Schort Valla) Print Print Standard (San Schort Valla) Print Schort (San S
1	Mounting Accessory Kit	

#### Table 2-1. Parts List

# 2.2 Intercom Components

Figure 2-1 shows the components of the Intercom.

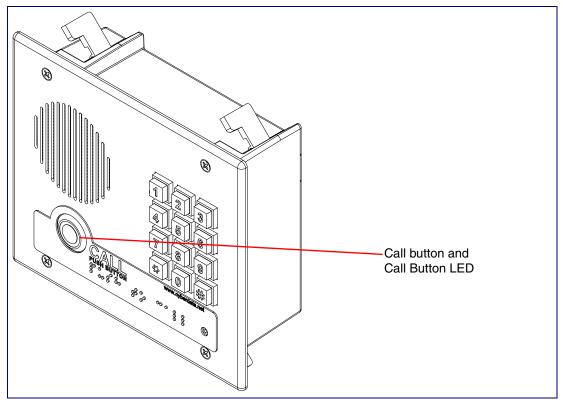




# 2.2.1 Call Button and Call Button LED

## 2.2.1.1 Call Button LED Function

- Upon initial power or reset, the Call Button LED will illuminate.
- During network setup the Call Button LED will blink 10 times per second until the device can find a network address. This can take from 5 to 60 seconds.
- When the software has finished initialization, the Call Button LED will blink twice.
- When a call is established (not just ringing), the Call Button LED will blink.
- On the **Device Configuration Page**, there is an option called **Button and Keypad Lit when** Idle. This option sets the normal state for the indicator light. The Call Button LED will still blink during initialization and calls.
- The indicator light flashes briefly at the beginning of RTFM mode.



#### Figure 2-2. Call Button and Call Button LED

## 2.2.2 Dialing from the Keypad

• See the Enable Telephone Operation setting in Section 2.4.7, "Configure the Button Parameters".

# 2.3 Intercom Setup

## 2.3.1 Intercom Connections

Figure 2-3 shows the pin connections on the J3 (terminal block). This terminal block can accept 16 AWG gauge wire.

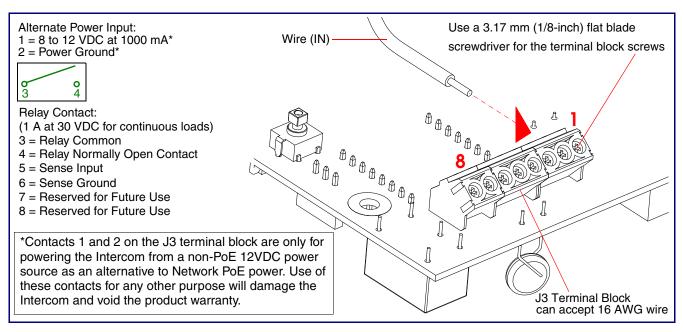
**Note** As an alternative to using PoE power, you can supply 8 to 12VDC at 1000mA into the terminal block.



### Caution

*Equipment Hazard*: Contacts 1 and 2 on the J3 terminal block are only for powering the Intercom from a non-PoE 12 VDC power source as an alternative to Network PoE power. Use of these contacts for any other purpose will damage the Intercom and void the product warranty.

Figure 2-3. Intercom Connections



## 2.3.2 Using the On-Board Relay

<i>Electrical Hazard:</i> This product should be installed by a licensed electrician according to all local electrical and building codes.
<b>Warning</b> <i>Electrical Hazard:</i> The relay contacts are dry and provided for a normally open and momentarily closed configuration. Neither the alternate power input nor PoE power can be used to drive a door strike.
<b>Warning</b> <i>Electrical Hazard:</i> The relay does not support AC powered door strikes. Any use of this relay beyond its normal operating range can cause damage to the product and is not covered under our warranty policy.

The device has a built-in relay that can be activated by a web configurable DTMF string that can be received from a VoIP phone supporting out of band (RFC2833) DTMF as well as a number of other triggering events. See the **Device Configuration Page** on the web interface for relay settings.

This relay can be used to trigger low current devices like strobes and security camera input signals as long as the load is not an inductive type and the relay is limited to a maximum of 1 Amp @ 30 VDC. Inductive loads have caused excessive "hum" and can interfere with the unit's electronics.

We highly recommend that inductive load and high current devices use our Door Strike Intermediate Relay product (CD# 011269) (see Section 2.3.3.2, "Door Strike Intermediate Relay").

This relay interface also has a general purpose input port that can be used to monitor an external switch and generate an event.

For more information on the sensor options, see the **Sensor Configuration Page** on the web interface.

## 2.3.3 Wiring the Circuit

## 2.3.3.1 Devices Less than 1A at 30 VDC

If the power for the device is less than 1A at 30 VDC and is not an inductive load, then see Figure 2-4 for the wiring diagram.

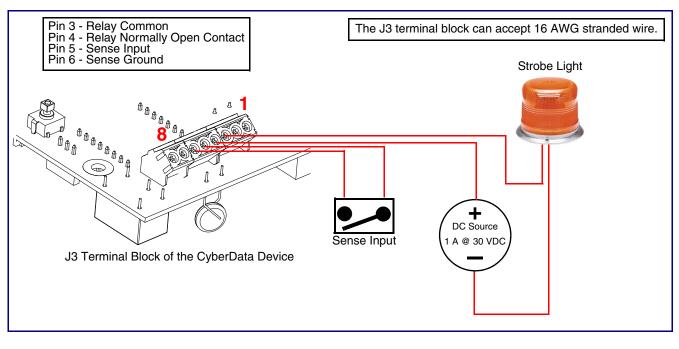


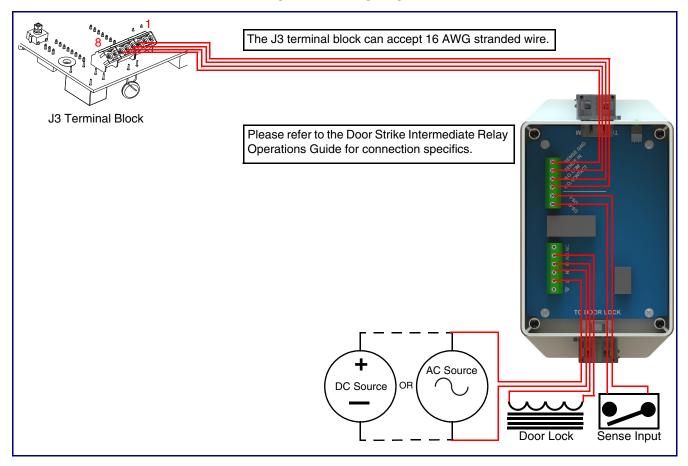
Figure 2-4. Wiring Diagram

### 2.3.3.2 Door Strike Intermediate Relay

For wiring an electronic door strike, we recommend the use of our external Door Strike Intermediate Relay (CD# 011269).

This product provides an easier method of connecting standard door strikes as well as AC and higher voltage devices. See Figure 2-5 for the wiring diagram.

Figure 2-5. Wiring Diagram



If you have questions about connecting door strikes or setting up the web configurable options, please contact our support department.

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

## 2.3.4 Identifying the Connector Locations and Functions

See the following figures and tables to identify the board connector locations and functions.

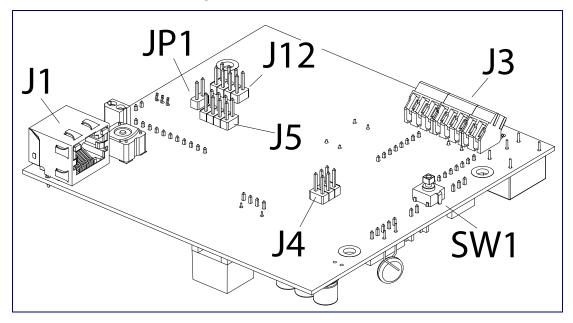
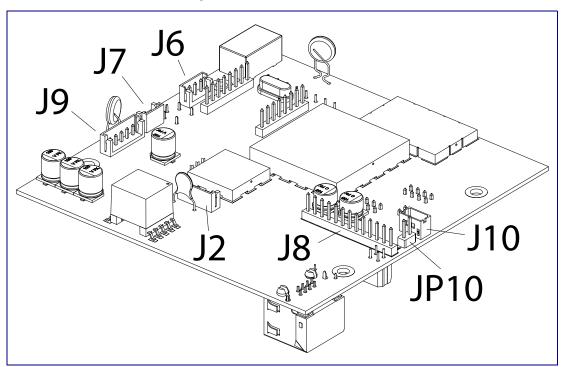


Figure 2-6. Connector Locations

Table 2-2. Connector Functions

Connector	Function
J1	PoE Network Connection (RJ-45 ethernet)
J3	Terminal Block (see Figure 2-3)
J4	Console Port (Factory Use Only)
J5	JTAG (Factory Use Only)
J12	Reserved (Factory Use Only)
JP1	Reset jumper <sup>a</sup>
SW1	See Section 2.3.6, "RTFM Button"

a.Do not install a jumper. Momentary short to reset. Permanent installation of a jumper would prevent the board from running all together.





#### **Table 2-3. Connector Functions**

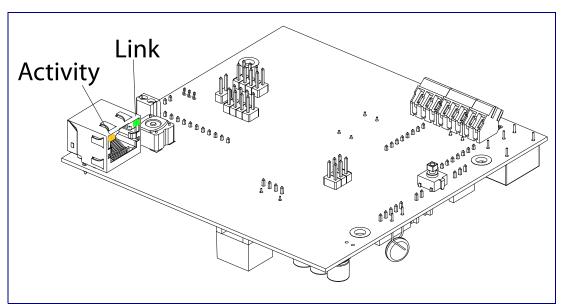
Connector	Function	
J2	Call Button LED Interface	
J6	Microphone Interface	
J7	Speaker Interface	
J8	Keypad Interface	
J9	Auxiliary Strobe Connector — Not Used	
J10	Proximity Sensor Interface — Not Used	
JP10	Disables the intrusion sensor when installed.	
	<b>Note:</b> Placing a jumper on JP10 will disable the intrusion detection circuit.	

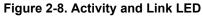
# 2.3.5 Activity and Link LEDs

## 2.3.5.1 Verifying the Network Connectivity and Data Rate

When you plug in the Ethernet cable or power supply to the Intercom, the following occurs:

- The square, YELLOW Activity LED blinks when there is network activity (see Figure 2-8).
- The square, **GREEN Link** LED above the Ethernet port indicates that the network connection has been established (see Figure 2-8).





## 2.3.6 RTFM Button

When the Intercom is operational and linked to the network, use the Reset Test Function Management **(RTFM)** button (see **SW1** in Figure 2-9) on the Intercom board to announce and confirm the Intercom's IP Address and test that the audio is working.

**Note** You must do this test prior to final assembly.

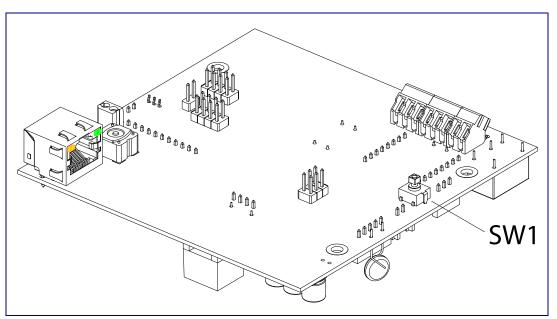


Figure 2-9. RTFM Button

## 2.3.6.1 Announcing the IP Address

To announce a device's current IP address:

- 1. Press and release the RTFM button (SW1) within a five second window.
- **Note** The device will use DHCP to obtain the new IP address (DHCP-assigned address or default to 10.10.10.10 if a DHCP server is not present).
- **Note** Pressing and holding the RTFM button for longer than five seconds will restore the device to the factory default settings.

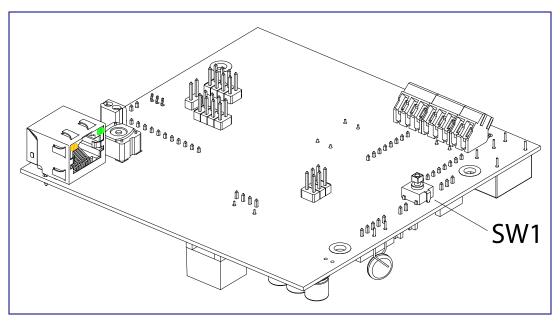
## 2.3.6.2 Restoring the Factory Default Settings

When troubleshooting configuration problems, it is sometimes convenient to restore the device to a known state.

Note Each Intercom is delivered with factory set default values.

To restore the factory default settings:

- 1. Press and hold the **RTFM button** (SW1) for more than five seconds.
- 2. The device announces that it is restoring the factory default settings.
- **Note** The device will use DHCP to obtain the new IP address (DHCP-assigned address or default to 10.10.10.10 if a DHCP server is not present).



#### Figure 2-10. RTFM Button

## 2.3.7 Adjust the Volume

You can adjust the volume through the Device Configuration Page.

# 2.4 Configure the Intercom Parameters

To configure the Intercom online, use a standard web browser.

Configure each Intercom and verify its operation *before* you mount it. When you are ready to mount an Intercom, refer to Appendix A, "Mounting the VoIP Flush-Mount Indoor Intercom with Keypad" for instructions.

# 2.4.1 Factory Default Settings

All Intercoms are initially configured with the following default IP settings:

When configuring more than one Intercom, attach the Intercoms 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 2-4. Factory Default Settings**

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

# 2.4.2 Intercom Web Page Navigation

Table 2-5 shows the navigation buttons that you will see on every Intercom web page.

Web Page Item	Description
Home	Link to the <b>Home</b> page.
Device Config	Link to the <b>Device Configuration</b> page.
Networking	Link to the <b>Networking</b> page.
SIP Config	Link to the SIP Configuration page.
Button Config	Link to the <b>Button Configuration</b> page.
Nightringer	Link to the Nightringer Configuration page.
Sensor Config	Link to the Sensor Configuration page.
Multicast Config	Link to the Multicast Configuration page.
Audio Config	Link to the Audio Configuration page.
Event Config	Link to the Event Configuration page.
Autoprovisioning	Link to the Autoprovisioning Configuration page.
Update Firmware	Link to the <b>Update Firmware</b> page.

#### Table 2-5. V2 Paging Amplifier Web Page Navigation

## 2.4.3 Log in to the Configuration Home Page

- 1. Open your browser to the Intercom 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 Intercom.
- **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/support/voip/discovery.html

- **Note** The Intercom 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 2-11):

Web Access Username: admin

Web Access Password: admin

Figure 2-11. Home Page

Cv	horData	Keypad Intercom		
Cy	Der Data	Reypau Intercom		
Home	Device Settings			
Tiome	Device Name:	Keypad Intercom		
Device Config	Device Nume.			
Networking	Change Username:	admin		
	Change Password:	(P)		
SIP Config	Re-enter Password:	P		
Button Config	Current Settings			
	Serial Number:	123100000		
Nightringer	Mac Address:	00:20:f7:02:4f:21		
Sensor Config	Firmware Version:	v10.2.6		
Consor coming	IP Addressing:	dhcp		
Multicast Config	IP Addressing: IP Address:	192.168.70.102		
	Subnet Mask:	255.255.240.0		
Audio Config	Default Gateway:	192.168.64.1		
Event Config	DNS Server 1:	192.168.65.20		
	DNS Server 2:	192.168.65.10		
Autoprovisioning				
Update Firmware	Speaker Volume:	4		
opuate rinnware	Microphone Gain:	4		
	SIP Mode is:	enabled		
	Multicast Mode is:	disabled		
	Event Reporting is:	disabled		
	Nightringer is:	disabled (NOT Registered with SIP Server)		
	Keypad Mode is:	Telephone Mode		
	Primary SIP Server:	(NOT Registered with SIP Server)		
	Backup Server 1:	(NOT Registered with SIP Server)		
	Backup Server 2:	(NOT Registered with SIP Server)		
	- Import/Export Setting	9		
	Please specify a conf	iguration file:		
	Browse No file sel	ected. Import Configuration		
	Export Configuration			
	* You need to reboot for	r changes to take effect		
Save Reboot				

#### 3. On the **Home Page**, you may enter values for the parameters indicated in Table 2-6.

Wah Paga Itam	
Web Page Item	Description
Device Settings	Chause the device name
Device Name	Shows the device name.
Change Username	Type in this field to change the username.
Change Password	Type in this field to change the password.
Re-enter Password	Type the password again in this field to confirm the new password.
Current Settings	
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 ( <b>DHCP</b> or <b>static</b> ).
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.
Speaker Volume	Shows the current speaker volume level.
Microphone Gain	Shows the current microphone gain level.
SIP Mode is	Shows the current SIP Mode status.
Multicast Mode is	Shows the current Multicast Mode status.
Event Reporting is	Shows the current Event Reporting status.
Nightringer is	Shows the current Nightringer status.
Keypad Mode is	Shows the current Keypad Mode status.
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.
Import/Export Settings	
Browse	Press the <b>Browse</b> button to select a configuration file to import.
Import Configuration	Press the <b>Import Configuration</b> button to save a board configuration to the board. <b>Note</b> : The board will have to be reset before changes will take effect.
Export Configuration	Press the <b>Export Configuration</b> button to download the current board configuration.
Sava	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.

#### Table 2-6. Home Page Overview

# 2.4.4 Configure the Device Parameters

1. Click the **Device Configuration** button to open the **Device Configuration** page. See Figure 2-12.

CyberData Keypad Intercom			
Home	Device Configuration		
Device Config	Volume Settings		
Networking	SIP Volume:     4       Multicast Volume:     4		
SIP Config	Ring Volume: 4		
Button Config	Sensor Volume: 4 Microphone Gain: 4		
Button Coning	No Volume Boost		
Nightringer	Boost operation recommended with volumes set to level 9		
Sensor Config	boost operation recommended with volumes set to level 9		
Multicast Config	Relay Settings		
Multicast coning	Activate Relay with DTMF code:		
Audio Config	DTMF Activation Code: 321		
Event Config	DTMF Activation Duration (in seconds): 2 DTMF Activation Plays Tone:		
Autoprovisioning	Activate Relay During Ring: 📃		
Update Firmware	Activate Relay During Night Ring:		
	Activate Relay While Call Active:		
	Activate Relay on Button Press:		
	Relay on Button Press Timeout (in 3		
	seconds):		
	Miscellaneous Settings		
	Auto-Answer Incoming Calls:		
	Button and Keypad Lit when Idle:		
	Button Brightness (0-255): 255 Play Ringback Tone:		
	* You need to reboot for changes to take effect		
	Save Reboot		
	Test Audio Test Microphone Test Relay Start Button Test		

#### Figure 2-12. Device Configuration Page

2. On the **Device Configuration** page, you may enter values for the parameters indicated in Table 2-7.

Web Page Item	Description	
Volume Settings		
SIP Volume	Type the desired SIP volume level into this field.	
Multicast Volume	Type the desired Multicast volume level into this field.	
Ring Volume	Type the desired Ring volume level into this field.	
Sensor Volume	Type the desired Sensor volume level into this field.	
Microphone Gain	Type the desired microphone gain level into this field.	
No Volume Boost Volume Boost 1 Volume Boost 2 Volume Boost 3	Normal operation of the product can be met with volume level <b>0</b> through <b>9</b> . <b>0</b> being mute and <b>9</b> being the loudest volume that in a normal arm's length and average background noise, will enable full duplex operation and give the best quality of sound output.	
	The volume boost options increase the output of the speaker by:	
	3db for Boost level 1	
	6db for Boost level 2	
	9db for Boost level 3	
	If the user would like a higher output from the speaker, the Boost settings are available. However, operation in <b>Boost</b> <b>Mode</b> may overdrive or clip the audio if, for example, the phone that is connected has a high microphone gain or if the person has a loud voice talking too close to the microphone.	
	The acoustic echo canceller also has a harder time maintaining full duplex operation when in the <b>Boost Mode</b> . The product may drop from full duplex operation into half/duplex mode while in <b>Boost Mode</b> .	
	Contact CyberData support for additional information if needed.	
Relay Settings		
Activate Relay with DTMF Code	When selected, the relay can be activated with a DTMF code.	
DTMF Activation Code	Type the desired DTMF activation code (25 character limit).	
DTMF Activation Duration (in seconds)	Type the desired DTMF activation duration (in seconds) (2 character limit [activation times now go up to 99 seconds]).	
	<b>NOTE</b> : A DTMF activation duration of <b>0</b> will toggle the relay indefinitely or until the activation code is sent again	
DTMF Activation Plays Tone	When selected, the device will play a tone when the relay is activated with a DTMF code.	
Activate Relay During Ring	When selected, the relay will be activated for as long as the call is active.	
	<b>NOTE</b> : When the phone is set to <b>Auto Answer</b> , it will not ring and this option does nothing.	

#### Table 2-7. Device Configuration Parameters

Web Page Item	Description
Activate Relay During Night Ring	Check this box to activate the relay for as long as a Night Ring tone is ringing.
Activate Relay While Call Active	When selected, the relay will be activated for as long as the call is active.
Activate Relay on Button Press	When selected, the relay will be activated when the Call Button is pressed.
Relay on Button Press Timeout (in seconds)	Type the desired time (in seconds) that you want the relay to activate after the Call Button is pressed (1 character limit).
Miscellaneous Settings	
Auto-Answer Incoming Calls	When selected, the device will automatically answer incoming calls.
	When <b>Auto Answer</b> is Off, the device will play a ringtone through the Intercom speaker until someone presses the button.
Button and Keypad Lit when Idle	When selected, the Call Button remains lit when idle.
Button Brightness (0-255)	Type the desired button brightness level (0-255).
Play Ringback Tone	When selected, you will hear a ringback tone while making a call.
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 Microphone	Click on the <b>Test Microphone</b> button to do a microphone test. When the <b>Test Microphone</b> button is pressed, the following occurs:
	1. The device will immediately start recording 3 seconds of audio.
	2. The device will beep (indicating the end of recording).
	3. The device will play back the recorded audio.
Test Relay	Click on the <b>Test Relay</b> button to do a relay test.
Start Button Test	Click on the <b>Start Button Test</b> button to do a button test. When pressed, the button text will change to <b>Stop Button Test</b> and in this mode, pressing the button will play test audio. Also, pressing this button puts the device into a mode where it will play audio as the buttons are pressed. For buttons <b>0</b> through <b>9</b> it will play the audio file for that number. For buttons *, #, and the Call Button, it will play the appropriate DTMF tones.
Save	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.

#### Table 2-7. Device Configuration Parameters (continued)

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

# 2.4.5 Configure the Network Parameters

1. Click the Networking button to open the Network Configuration page (Figure 2-13).

CyberData Keypad Intercom			
Home	Network Configuration		
Device Config	Stored Network Settings		
Networking	IP Addressing: IP Address:	<ul> <li>Static</li> <li>10.10.10.10</li> </ul>	DHCP
SIP Config	Subnet Mask:	255.0.0.0	
SIF coming	Default Gateway:	10.0.0.1	
Button Config	DNS Server 1:	10.0.0.1	
Nightringer	DNS Server 2:	10.0.0.1	
rightinger	Hostname: VLAN ID (0-4095):	SipDevice027067 0	
Sensor Config	VLAN ID (0 4095). VLAN Priority (0-7):	0	
Multicast Config	DHCP Timeout		
Audio Config	DHCP Timeout in seconds*:	60	
Event Config	* A value of -1 will retry forever		
Autoprovisioning	* You need to reboot for changes to take effect		
Update Firmware	Save Reboot		

Figure 2-13. Network Configuration Page

2. On the **Network Configuration** page, you may enter values for the parameters indicated in Table 2-8.

Web Page Item	Description	
Stored Network Settings	Shows the settings stored in non-volatile memory.	
IP Addressing	Select either <b>DHCP IP Addressing</b> or <b>Static IP Addressing</b> by marking the appropriate radio button. If you select <b>Static</b> , configure the remaining parameters indicated in Table 2-8. If you select <b>DHCP</b> , go to Step Note.	
IP Address	Enter the Static IP address.	
Subnet Mask	Enter the Subnet Mask address.	
Default Gateway	Enter the Default Gateway address.	
DNS Server 1	Enter the DNS Server 1 address.	
DNS Server 2	Enter the DNS Server 2 address.	
Hostname	This is the hostname provided to the DHCP server. This can be used in conjunction with a DNS server to address the device by host name instead of by IP address. Check your DHCP server and DNS server documentation for more information.	
VLAN ID (0-4095)	Enter the VLAN ID number.	
	<b>Note:</b> The device supports 802.11Q 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)	Enter the VLAN priority number.	
DHCP Timeout		
DHCP Timeout in seconds	Enter the desired timeout duration (in seconds) that the device will wait for a response from the DHCP server before defaulting back to the stored static IP address.	
	<b>Note</b> : A value of <b>-1</b> will cause the device to retry indefinitely and a value of <b>0</b> will cause the device to reset to a default of 60 seconds.	
Save	Click the <b>Save</b> button to save your configuration settings.	
ouvo	Note: You need to reboot for changes to take effect.	
Reboot	Click on the <b>Reboot</b> button to reboot the system.	

Table 2-8. Network Configuration Parameters

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

# 2.4.6 Configure the SIP Parameters

- 1. Click SIP Config to open the SIP Configuration page (Figure 2-14).
- Note For specific server configurations, go to the following website address: http://www.cyberdata.net/support/server/index.html

Figure 2-14. SIP Configuration Page

Су	berData Keypad	Intercom	
Home	SIP Configuration		
Device Config	Enable SIP operation: 🗹		
Networking	SIP Settings		
Networking	Primary SIP Server (NOT Registered):	10.0.0.253	
SIP Config	Primary SIP User ID: Primary SIP Auth ID:	199	
Button Config	Primary SIP Auth 1D. Primary SIP Auth Password:		
Button comig			
Nightringer	Backup SIP Server 1 (NOT Registered):		
Sensor Config	Backup SIP User ID 1:		
Sensor coming	Backup SIP Auth ID 1:		
Multicast Config	Backup SIP Auth Password 1:		
Audio Config	Backup SIP Server 2 (NOT Registered):		
	Backup SIP Server 2 (NOT Registered): Backup SIP User ID 2:		
Event Config	Backup SIP Auth ID 2:		
Autoprovisioning	Backup SIP Auth Password 2:		
Autoprovisioning			
Update Firmware	Use Cisco SRST:		
	Remote SIP Port:	5060	
	Local SIP Port:	5060	
	Outbound Proxy:		
	Outbound Proxy Port:	0	
	Register with a SIP Server:		
	Re-registration Interval (in seconds):	360	
	NAT ping (check box if PBX is not local): Disable rport Discovery:		
	Call disconnection		
	Terminate call after delay (in seconds):	0	
	Note: A value of 0 will disable this function		
	RTP Settings		
	RTP Port (even):	10500	
	* You need to reboot for changes to take effect		
	Save Reboot		

2. On the **SIP Configuration** page, you may enter values for the parameters indicated in Table 2-9.

Web Page Item	Description
Enable SIP Operation	Enables or disables SIP operation.
SIP Settings	
Primary SIP Server [registration status]	Use this field to set the address (in dotted decimal notation or as a canonical name) for the Primary SIP Server. This field can accept canonical names of up to 255 characters in length.
Primary SIP User ID	Type the <b>SIP User ID</b> for the Primary SIP Server (up to 64 alphanumeric characters).
Primary SIP Auth ID	Type the <b>Authenticate ID</b> for the Primary SIP Server (up to 64 alphanumeric characters).
Primary SIP Auth Password	Type the <b>Authenticate Password</b> for the Primary SIP Server (up to 64 alphanumeric characters).
Backup SIP Server 1 Backup SIP Server 2	• If all of the <b>Primary SIP Server</b> and <b>Backup SIP Server</b> fields are populated, the device will attempt to stay registered with all three servers all of the time. You can leave the <b>Backup SIP Server 1</b> and <b>Backup SIP Server 2</b> fields blank if they are not needed.
	• In the event of a registration failure on the <b>Primary SIP</b> <b>Server</b> , the device will use the next highest priority server for outbound calls ( <b>Backup SIP Server 1</b> ). If <b>Backup SIP</b> <b>Server 1</b> fails, the device will use <b>Backup SIP Server 2</b> .
	<ul> <li>If a higher priority SIP Server comes back online, the device will switch back to this server.</li> </ul>
Backup SIP User ID 1 Backup SIP User ID 2	Type the <b>SIP User ID</b> for the Backup SIP Server (up to 64 alphanumeric characters).
Backup SIP Auth ID 1	Type the <b>SIP Authenticate ID</b> for the Backup SIP Server (up to 64 alphanumeric characters).
Backup SIP Auth ID 2	
Backup SIP Auth Password 1	Type the <b>SIP Authenticate Password</b> for the Backup SIP Server (up to 64 alphanumeric characters).
Backup SIP Auth Password 2	
Use Cisco SRST	When selected, the backup servers are handled according to Cisco SRST (Survivable Remote Site Telephony).
Remote SIP Port	Type the <b>Remote SIP Port</b> number (default 5060) (8 character limit).
Local SIP Port	Type the <b>Local SIP Port</b> number (default 5060) (8 character limit).
Outbound Proxy	Type the Outbound Proxy as either a numeric IP address in dotted decimal notation or the fully qualified host name (255 character limit [FQDN]).
Outbound Proxy Port	Type the Outbound Proxy Port number (8 character limit).

Table 2-9. SIP Configuration Parameters

Web Page Item	Description	
Register with a SIP Server	Check this box to enable SIP Registration.	
	For information about Point-to-Point Configuration, see Section 2.4.6.1, "Point-to-Point Configuration".	
Re-registration Interval (in seconds)	The SIP Registration lease time in seconds.	
NAT ping (check box if PBX is not local)	Check this box if the PBX server is remote and you are experiencing problems establishing calls with the PBX.	
Disable rport Discovery	Check this box prevent the device from including the public WAN IP address in the contact information that is sent to the remote SIP servers. This will generally only need to be enabled when using an SBC in conjunction with a remote SIP server.	
Call Disconnection		
Terminate call after delay (in seconds)	Type the desired number of seconds that you want to transpire after a connection delay before a call is terminated.	
	Note: A value of <b>0</b> will disable this function.	
RTP Settings		
RTP Port (even)	Specify the port number used for the RTP stream after establishing a SIP call. This port number has to be an even number and defaults to 10500.	
Save	Click the <b>Save</b> button to save your configuration settings.	
Gave	Note: You need to reboot for changes to take effect.	
Reboot	Click on the <b>Reboot</b> button to reboot the system.	

#### Table 2-9. SIP Configuration Parameters (continued)

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

## 2.4.6.1 Point-to-Point Configuration

When the board is set to not register with a SIP server, it's possible to set the device to dial out to a single endpoint. To do this, do the following:

1. On the SIP Configuration page (Figure 2-15), make sure that the Register with a SIP Server parameter is not selected.



Су	berData Keypad	Intercom
Home	SIP Configuration	
	_	
Device Config	Enable SIP operation:  SIP Settings	
Networking	Primary SIP Server (NOT Registered):	10.0.0.253
SIP Config	Primary SIP User ID:	199
SIP comig	Primary SIP Auth ID:	199
Button Config	Primary SIP Auth Password:	•••••
Nightringer	Backup CID Convert (NOT Desistered)	
Ingriefinger	Backup SIP Server 1 (NOT Registered): Backup SIP User ID 1:	
Sensor Config	Backup SIP Auth ID 1:	
Multicast Config	Backup SIP Auth Password 1:	
Audio Config	Backup SIP Server 2 (NOT Registered):	
Event Config	Backup SIP User ID 2:	
	Backup SIP Auth ID 2: Backup SIP Auth Password 2:	
Autoprovisioning	backup Sir Auti rassword 2.	
Update Firmware	Use Cisco SRST:	
	Remote SIP Port:	5060
	Local SIP Port:	5060
	Outbound Proxy:	
	Outbound Proxy Port:	0
	Register with a SIP Server:	
	Re-registration Interval (in seconds):	360
	NAT ping (check box if PBX is not local):	
	Disable rport Discovery:	
	Call disconnection	
	Terminate call after delay (in seconds):	0
	Note: A value of 0 will disable this function	
	PTD Sottings	
	RTP Settings	10500
	RTP Port (even):	10500
	* You need to reboot for changes to take effect	
	Save Reboot	

Intercom is set to NOT register with a SiP server

- 2. On the **Button Configuration** page (Figure 2-16 and Figure 2), type the IP address of the remote device that you want to contact into a **Keypad** or **Call Button** field (in either **Speed Dial Mode** or **Security Dial Mode**).
- Note There is no way to place a point-to-point call in **Telephone Dial Mode** or **Cellphone Dial Mode**. The Intercom can receive point-to-point calls in any mode.
- **Note** The delayed DTMF functionality is available in the Point-to-Point Mode.
- **Note** Establishing point-to-point SiP calls may not work with all phones.

# 2.4.7 Configure the Button Parameters

1. Click the Button Config button to open the Button Configuration page. See Figure 2-16.

Figure 2-16. Button Configuration Page

Cur	haupata Kaupad Internet
Cy	berData Keypad Intercom
Home	Button Configuration
Device Config	Telephone Dial Mode
Networking	Enable Telephone Operation:
SIP Config	Cellphone Dial Mode
Button Config	Enable Cellphone Operation:
Button Config	Speed Dial Mode
Nightringer	Enable Speed Dial: O Speed Dial Timeout (in seconds): 2
Sensor Config	
Multicast Config	Keypad 1:         241         ID:         id241           Keypad 2:         242         ID:         id242
Audio Config	Keypad 3: 243 ID: id243
Addio coning	Keypad 4: 244 ID: id244
Event Config	Keypad 5:         245         ID:         id245           Keypad 6:         246         ID:         id246
Autoprovisioning	Keypad 7: 247 ID: id247
Undeter Simon	Keypad 8: 248 ID: id248
Update Firmware	Keypad 9:         249         ID:         id249
	Keypad 0: 2411 ID: id2411
	Keypad *:         2410         ID:         id2410           Keypad #:         2412         ID:         id2412
	Call Button: 204 ID: id204
	Security Dial Mode
	Enable Security Keypad Operation:
	Relay Activation Timeout (in seconds): 6
	Play Tone while Relay is Active:
	Allow Telephone dialout: 🔽
	Call Button: 204 ID: id204
	Conwity Code Cr. 1004500
	Security Code 0: 1234560 Security Code 1: 1234561
	Security Code 1: 1234561 Security Code 2: 1234562
	Security Code 3: 1234563
	Security Code 4: 1234564
	Security Code 5: 1234565
	Security Code 6: 1234566 Security Code 7: 1234567
	Security Code 9: 1234568
	Security Code 9: 1234569
	Security Codes are limited to 7 characters and start with the # key
	Misc Settings
	Play Button Tone:
	* You need to reboot for changes to take effect
	Save Reboot

2. On the **Button Configuration** page, you may enter values for the parameters indicated in Table 2-10.

Web Page Item	Description	
Telephone Dial Mode		
Enable Telephone Operation	Select <b>Enable Telephone Operation</b> to put the Intercom into <b>Telephone Dial Mode</b> . In <b>Telephone Dial Mode</b> , the Intercom will operate like a telephone:	
	<ul> <li>To make a call in this mode, press the Call Button to go 'off-hook'. The unit will begin playing a dial tone and will wait for keypad input.</li> </ul>	
	<ul> <li>Dial the extension you want to reach and wait.</li> </ul>	
	<ul> <li>Pressing the Call Button at any time in this process will hang up the call (put it back 'on-hook').</li> </ul>	
	<ul> <li>During a call, you can use the keypad to send DTMF tones to the remote extension.</li> </ul>	
Cellphone Dial Mode		
Enable Cellphone Operation	Select <b>Enable Cellphone Operation</b> to put the Intercom into <b>Cellphone Dial Mode</b> . In <b>Cellphone Dial Mode</b> , the Intercom will operate like a cellular phone:	
	<ul> <li>This mode is similar to the telephone operation but you dial in an extension differently.</li> </ul>	
	<ul> <li>To make a call in this mode, dial the extension and then press the call button to 'send' or initiate the call.</li> </ul>	
	<ul> <li>Pressing the call button at any time in this process will hang up the call (put it back 'on-hook').</li> </ul>	
	<ul> <li>During a call you can use the keypad to send DTMF tones to the remote extension.</li> </ul>	
Speed Dial Mode		
Enable Speed Dial	Select <b>Enable Speed Dial</b> to put the Intercom into <b>Speed</b> <b>Dial Mode</b> . In this mode the user sets up extensions to dial when a button is pressed.	
	The <b>Speed Dial Timeout (in seconds)</b> setting is the number of seconds you need to hold the button before it will place a call. If this value is <b>0</b> , it will place a call as soon as the button is released.	
	The speed dial fields in this mode will accept delayed DTMF tones when a comma ',' is in the dial-out field.	
Speed Dial Timeout (in seconds)	Type the desired time (in seconds) that you want a button held before it will initiate a call.	
	<b>Note</b> : A <b>Speed Dial Timeout</b> setting of <b>0</b> will start a call as soon as the button is released.	
Keypad (0 through 9, *, and #)	Enter the desired dial-out extension number (64 character limit).	
	<b>Note</b> : For information about dial-out extension strings and DTMF tones, see Section 2.4.7.1, "Dial Out Extension Strings and DTMF Tones (using rfc2833)".	

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

Web Page Item	Description	
Call Button	Enter the desired dial-out extension number (64 character limit).	
	<b>Note</b> : For information about dial-out extension strings and DTMF tones, see Section 2.4.7.1, "Dial Out Extension Strings and DTMF Tones (using rfc2833)".	
Security Dial Mode		
Enable Security Keypad Operation	Select Enable Security Keypad Operation to put the Intercom into Security Dial Mode. In Security Dial Mode the Intercom will act like a normal, one-button Intercom by calling the extension specified in the Call Button field. When a security code is entered on the keypad that matches one of the seven-digit fields specified on the page, the relay will be activated.	
	<ul> <li>This mode is meant for installation with security doors. Ir Security Dial Mode, the Intercom will act like a normal, one-button Intercom by calling the extension specified in the Call Button field.</li> </ul>	
	• Up to 10 (7-digit maximum) security codes can be registered with the device. Enter a security code by pressing the # key before entering the code. When one o these codes is typed on the keypad, it will activate the relay for the <b>Relay Activation Timeout (in seconds)</b> setting.	
	<ul> <li>It is possible to enter a security code both inside and our of calls.</li> </ul>	
	<ul> <li>In this mode normal relay operation is suspended and the following settings are non-operational:</li> </ul>	
	Relay On Button Press, Relay During Call Active Relay During Ring Relay During Night-ring	
	<ul> <li>In this mode, you can't send dtmf to a remote extension using the keypad. You can however setup delayed dtmf tones in the dial out string.</li> </ul>	
Relay Activation Timeout (in seconds)	Type the desired length of time (in seconds) that you wan the relay to remain activated after a security code is entered.	
Play Tone While Relay is Active	Check this box to play an audible tone while the relay is activated.	

Table 2-10.	Button	Configuration	Parameters	(continued)
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Web Page Item	Description	
Allow Telephone Dialout	When the <b>Allow Telephone Dialout</b> option is enabled, you can use the keypad to place calls to a dialed extension. To call an extension, dial the number and wait. You can still enter security codes with the <b>Allow</b> <b>Telephone Dialout</b> option enabled by pressing the <b>#</b> key before entering the code.	
	With the <b>Allow Telephone Dialout</b> option disabled, all keypad input will be treated as security input. You can still use the # key but it is not necessary.	
	For information about how to instantly triggering a dial out call or security code, see Section 2.4.7.2, "Triggering a Dial Out Call or Security Code".	
Call Button	Enter the desired dial-out extension number (64 character limit). Security codes are limited to seven characters and are activated with the # key.	
	<b>Note</b> : For information about dial-out extension strings and DTMF tones, see Section 2.4.7.1, "Dial Out Extension Strings and DTMF Tones (using rfc2833)".	
ID	Type the desired Extension ID (64 character limit).	
Security Code (0 through 9)	Enter the desired security code number (7 character limit). When a security code is entered on the keypad that matches one of the seven-digit fields specified on the page, the relay will be activated.	
Misc Settings		
Play Button Tone	Check this box to hear a tone when a keypad button is pushed. This setting applies to all modes and determines whether the device will play an audible sound out of the speaker when doing any of the following:	
	<ul> <li>Entering a security code</li> </ul>	
	Initiating a speed dial	
	<ul> <li>Pressing the keys in cellphone and telephone modes</li> </ul>	
Save	Click the <b>Save</b> button to save your configuration settings.	
Javo	Note: You need to reboot for changes to take effect.	
Reboot	Click on the <b>Reboot</b> button to reboot the system.	

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

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

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

On the Button 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 2-11. Examples of Dial-Out Extension Strings

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

### 2.4.7.2 Triggering a Dial Out Call or Security Code

You can instantly trigger a dial out call or security code by pressing the # key after dialing a number. Table 2-12 shows the various actions that result from different keypad input.

Allow Telephone Dialout Option Enabled (in security mode with default security settings)		
Input	Resulting Action	
Dialing <b>123</b> (and waiting for several seconds)	The device will call extension <b>123</b> through the default SIP server.	
Dialing <b>#123</b> (and waiting for several seconds)	The device will do nothing. The entry is an unrecognized security entry.	
Dialing <b>#1234560</b> (and waiting for several seconds)	The device will activate the relay for <b>Security Code 0</b> for <b>6</b> seconds.	
Dialing <b>#124560</b> #	The device will instantly activate the relay for 6 seconds.	
Dialing 123#	The device will instantly call extension <b>123</b> through the default SIP server.	
Allow Telephone Dialout Option Disabled (in security mode with default security settings)		
Input	Resulting Action	
Dialing <b>1234560</b> (and waiting for several seconds)	The device will activate the relay for <b>Security Code 0</b> for <b>6</b> seconds.	

#### Table 2-12. Triggering a Dial Out Call or Security Code

# 2.4.8 Configure the Night Ringer Parameters

When the Nightringer is enabled, the Intercom will register as a second SIP extension. Registration does not have to be to the same server as the primary SIP registration. Any calls made to the Nightringer extension will cause the Intercom to play a ring tone. There is no way to answer this call. The Nightringer is designed to be used in buildings where calls made after hours are directed to a ring group.

1. Click on the Nightringer button to open the Nightringer Configuration page. See Figure 2-17.

Figure 2-17. Nightringer Configuration Setup

CyberData Keypad Intercom				
Home Nightringer Configuration				
Device Config	Enable Nightringer: C (NOT Registered with SI	P Server)		
Networking SIP Config Button Config	<ul> <li>Nightringer Settings</li> <li>SIP Server:</li> <li>Remote SIP Port:</li> <li>Local SIP Port:</li> <li>Outbound Proxy:</li> </ul>	10.0.0.253 5060 5061		
Nightringer	Outbound Proxy Port: User ID:	0 241		
Sensor Config	Authenticate ID: Authenticate Password:	241		
Multicast Config Audio Config	Re-registration Interval (in seconds):	360		
Event Config Autoprovisioning				
Update Firmware * You need to reboot for changes to take effect Save Reboot				

2. On the **Nightringer Configuration** page, you may enter values for the parameters indicated in Table 2-13.

Web Page Item	Description	
Enable Nightringer	When the nightringer is enabled, the unit will attempt to register a second extension with the SIP server. Any calls made to this extension will play a ringtone.	
Nightringer Settings		
SIP Server	Type the SIP server represented as either a numeric IP address in dotted decimal notation.	
Remote SIP Port	Type the Remote SIP Port number (default 5060) (8 character limit).	
Local SIP Port	Type the Local SIP Port number (default 5060) (8 character limit). Note: This value cannot be the same as the Local SIP Port found on the SIP Configuration Page.	
Outbound Proxy	Type the Outbound Proxy as either a numeric IP address in dotted decimal notation or the fully qualified host name (255 character limit [FQDN]).	
Outbound Proxy Port	Type the Outbound Proxy Port number (8 character limit).	
User ID	Type the User ID (up to 64 alphanumeric characters).	
Authenticate ID	Type the <b>Authenticate ID</b> (up to 64 alphanumeric characters).	
Authenticate Password	Type the <b>Authenticate Password</b> (up to 64 alphanumeric characters).	
Re-registration Interval (in seconds)	The SIP Registration lease time (in seconds).	
Save	Click the Save button to save your configuration settings.	
Jave	Note: You need to reboot for changes to take effect.	
Reboot	Click on the <b>Reboot</b> button to reboot the system.	

Table 2-13. Nightringer Configuration Parameters

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

# 2.4.9 Configure the Sensor Parameters

The door sensor (pins 5 and 6) on the header 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 **Door Open Timeout** parameter has been met.

The intrusion sensor is an optical sensor installed on the Intercom board and will be activated when the Intercom is removed from the case.

For each sensor there are four actions the Intercom can take:

- 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 Intercom speaker until the sensor is deactivated
- Call a preset extension and play a pre-recorded audio file (once)
- **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 on the Sensor Config button to open the Sensor Configuration page (Figure 2-18).

Figure 2-18. Sensor Configuration Page

CyberData Keypad Intercom			
Home	Sensor Configuration		
Device Config	Door Sensor Settings		
Networking	Door Sensor Normally Closed:	O Yes O No	
	Door Open Timeout (in seconds):	0	
SIP Config	Flash Button LED:		
Button Config	Activate Relay:		
Nightringer	Play Audio Locally:		
Nightringer	Make call to extension:		
Sensor Config	Play recorded audio:		
Multicast Config	Dial Out Extension:	204	
	Dial Out ID:	id204	
Audio Config	Repeat Local Audio (0 to repeat forever):	0	
Event Config	Test Door Sensor		
Autoprovisioning	Intrusion Sensor Settings		
Update Firmware	Flash Button LED:		
	Activate Relay: Play Audio Locally:		
	Make call to extension:		
	Play recorded audio:		
	Dial Out Extension: Dial Out ID:	204 id204	
	Repeat Local Audio (0 to repeat forever):	0	
		-	
Test Intrusion Sensor			
* You need to reboot for changes to take effect			
Save Reboot			

2. On the Sensor Configuration page, enter values for the parameters indicated in Table 2-14.

Web Page Item	Description
Door Sensor Settings	
Door Sensor Normally Closed	Select the inactive state of the door sensors.
Door Open Timeout (in seconds)	Select the number of seconds that you want to pass before the door sensor is activated.
Flash Button LED	Check this box to flash the LED until the sensor is deactivated (roughly 10 times/second).
Activate Relay	Check this box to activate the relay until the sensor is deactivated.
Play Audio Locally	Check this box to loop an audio file out of the Intercom speaker until the sensor is deactivated.
Make call to extension	Check this box to call a preset extension (once).
Play recorded audio	Check this box to play a pre-recorded audio file (once).
Dial Out Extension	Enter the desired dial-out extension number.
Dial Out ID	Type the desired Extension ID (64 character limit).
Repeat Local Audio	Type how many times that you want an audio file to repeat out of the device's speaker after the sensor is activated. (Type <b>0</b> to make an audio file repeat indefinitely).
Test Door Sensor	Use this button to test the door sensor.
Intrusion Sensor Settings	
Flash Button LED	Check this box to flash the LED until the sensor is deactivated (roughly 10 times/second).
Activate Relay	Check this box to activate the relay until the sensor is deactivated.
Play Audio Locally	Check this box to loop an audio file out of the Intercom speaker until the sensor is deactivated.
Make call to extension	Check this box to call a preset extension (once).
Play recorded audio	Check this box to play a pre-recorded audio file (once).
Dial Out Extension	Enter the desired dial-out extension number.
Dial Out ID	Type the desired Extension ID (64 character limit).
Repeat Local Audio	Type how many times that you want an audio file to repeat out of the device's speaker after the sensor is activated. (Type <b>0</b> to make an audio file repeat indefinitely).
Test Intrusion Sensor	Use this button to test the Intrusion sensor.
Sava	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.

Table 2-14. Sensor Configuration Parameters

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

# 2.4.10 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.

1. Click on the **Multicast Configuration** button to open the **Multicast Configuration** page. See Figure 2-19.

Су	vbe	rData	ιΚε	eypad I	ntercom
Home	Home Multicast Configuration				
Device Config	Enable	Multicast opera	tion: 🗖		
Networking	Priority	Address	Port	Name	Beep
Networking	9	239.168.3.10	11000	Emergency	
SIP Config	8	239.168.3.9	10000	MG8	
Button Config	7	239.168.3.8	9000	MG7	
	6	239.168.3.7	8000	MG6	
Nightringer	5	239.168.3.6	7000	MG5	
Sensor Config		SIP calls are c	onsidered	priority 4.5	
	4	239.168.3.5	6000	MG4	
Multicast Config	3	239.168.3.4	5000	MG3	
Audio Config	2	239.168.3.3	4000	MG2	
Event Confin	1	239.168.3.2	3000	MG1	
Event Config	0	239.168.3.1	2000	Background Music	
Autoprovisioning	Port ra	nge can be from	1 2000-65	535	
Update Firmware	Ports n	nust be even nu	mbers		
Space Filmale	Priority 9 is the highest and 0 is the lowest				
	A higher priority audio stream will always supercede a lower one				
	Priority 9 streams will play at maximum volume				
	* You r	need to reboot f	or change	es to take effect	
	Save	e Reboot			

#### Figure 2-19. Multicast Configuration Setup

2. On the **Multicast Configuration** page, you may enter values for the parameters indicated in Table 2-15.

Web Page Item	Description
Enable Multicast Operation	Enables or disables multicast operation.
Device Settings	
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). See Section 2.4.10.1, "Assigning Priority" for more details.
Address	Enter the multicast IP Address for this multicast group (15 character limit).
Port (range can be from 2000 to 65535)	Enter the port number for this multicast group (5 character limit).
	<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).
Веер	When selected, the device will play a beep before multicast audio is sent.
Save	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.

Table 2-15. Multicast Configuration Parameters

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

### 2.4.10.1 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.

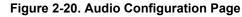
**Note** SIP calls, multicast streams, ring tones, ringback tones, and nightring tones are all prioritized.

Ringtones and Ringtones 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.

# 2.4.11 Configure the Audio Parameters

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

1. Click on the Audio Config menu button to open the Audio Configuration page (Figure 2-20).



Су	berData Keypad Intercom
Home	Audio Configuration
Device Config	Available Space = 36.18MB
Networking	Audio Files  0: Currently set to default
SIP Config	New File: Browse No file selected.
Button Config	
Nightringer	1: Currently set to default New File: Browse No file selected.
Sensor Config	Play Delete Save
Multicast Config	2: Currently set to default New File: Browse No file selected.
Audio Config	Play Delete Save
Event Config	3: Currently set to default New File: Browse No file selected.
Autoprovisioning	Play Delete Save
Update Firmware	4: Currently set to default New File: Browse No file selected. Play Delete Save
	5: Currently set to default New File: Browse No file selected. Play Delete Save
	6: Currently set to default New File: Browse No file selected. Play Delete Save
	7: Currently set to default New File: Browse No file selected. Play Delete Save
	8: Currently set to default New File: Browse No file selected. Play Delete Save
	9: Currently set to default New File: Browse No file selected. Play Delete Save

Audio test: Currently set to default         New File:       Browse         No file selected.         Play       Delete         New File:       Browse         No file selected.         Play       Delete         Your IP Address is: Currently set to default         New File:       Browse         No file selected.         Play       Delete         Rebooting:       Currently set to default         New File:       Browse         No file selected.       Play         Play       Delete         Save       Rebooting:         Currently set to default       New File:         New File:       Browse         No file selected.       Play         Play       Delete         Ringback tone:       Currently set to default         New File:       Browse         No file selected.       Play         Play       Delete         Save       Intrusion Sensor Triggered:         New File:       Browse         No file selected.       Play         Play       Delete         Door Ajar:       Currently set to default         New File:	New File:       Browse       No file selected.         Audio test:       Currently set to default         New File:       Browse       No file selected.         Page tone:       Currently set to default         New File:       Browse       No file selected.         Your IP Address is:       Currently set to default         New File:       Browse       No file selected.         Play       Delete       Save         Your IP Address is:       Currently set to default         New File:       Browse       No file selected.         Play       Delete       Save         Rebooting:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Restoring Default:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Ring tone:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Intrusion Sensor Triggered:       Currently set to default         New File:<
Play       Delete       Save         Audio test: Currently set to default       Play       Delete       Save         Page tone: Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Your IP Address is: Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Your IP Address is: Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Rebooting: Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Restoring Default: Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Ringback tone: Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Ring tone: Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Door Ajar: Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Door Ajar: Currently set to default	Play       Delete       Save         Audio test:       Currently set to default       Play       Delete       Save         Page tone:       Currently set to default       Play       Delete       Save         Page tone:       Currently set to default       Play       Delete       Save         Your IP Address is:       Currently set to default       Play       Delete       Save         Your IP Address is:       Currently set to default       Play       Delete       Save         Rebooting:       Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Restoring Default:       Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Ringback tone:       Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Ring tone:       Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Intrusion Sensor Triggered:       Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         D
Audio test: Currently set to default         New File:       Browse         Page tone: Currently set to default         New File:       Browse         No file selected.         Play       Delete         Your IP Address is: Currently set to default         New File:       Browse         No file selected.         Play       Delete         Save         Your IP Address is: Currently set to default         New File:       Browse         No file selected.         Play       Delete         Rebooting:       Currently set to default         New File:       Browse         No file selected.       Play         Play       Delete         Restoring Default:       Currently set to default         New File:       Browse         No file selected.       Play         Play       Delete         Play       Delete         New File:       Browse         No file selected.       Play         Play       Delete         Play       Delete         Play       Delete         Save       Door Ajar:         Door Ajar:       Curr	Audio test: Currently set to default         New File:       Browse         Page tone: Currently set to default         New File:       Browse         No file selected.         Play       Delete         Save         Your IP Address is: Currently set to default         New File:       Browse         No file selected.         Play       Delete         Save         Your IP Address is: Currently set to default         New File:       Browse         No file selected.         Play       Delete         Rebooting:       Currently set to default         New File:       Browse         No file selected.       Play         Play       Delete         Ringback tone:       Currently set to default         New File:       Browse         No file selected.       Play         Play       Delete         Save       Ring tone:         Intrusion Sensor Triggered:       Currently set to default         New File:       Browse       No file selected.         Play       Delete       Save         Door Ajar:       Currently set to default         New File:<
New File:       Browse       No file selected.         Page tone:       Currently set to default         New File:       Browse       No file selected.         Play       Delete       Save         Your IP Address is:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Your IP Address is:       Currently set to default         New File:       Browse       No file selected.         Play       Delete       Save         Rebooting:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Ringback tone:       Currently set to default       New File:         New File:       Browse       No file selected.         Play       Delete       Save         Ring tone:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Door Ajar:       Currently set to default       Play         New File:       Browse       No file selected.	New File:       Browse       No file selected.         Page tone:       Currently set to default         New File:       Browse       No file selected.         Play       Delete       Save         Your IP Address is:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Your IP Address is:       Currently set to default         New File:       Browse       No file selected.         Play       Delete       Save         Rebooting:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Ringback tone:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Ring tone:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Intrusion Sensor Triggered:       Currently set to default         New File:       Browse       No file selected. <td< td=""></td<>
Play       Delete       Save         Page tone: Currently set to default       New File:       Browse       No file selected.         Play       Delete       Save         Your IP Address is: Currently set to default       Play       Delete       Save         Your IP Address is: Currently set to default       Play       Delete       Save         Rebooting:       Currently set to default       Play       Delete       Save         Rebooting:       Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Restoring Default:       Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Ringback tone:       Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Ring tone:       Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Door Ajar:       Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Door Ajar:       Currently set to default       New File:       Browse	Play       Delete       Save         Page tone: Currently set to default       Play       Delete       Save         Your IP Address is: Currently set to default       Play       Delete       Save         Your IP Address is: Currently set to default       Play       Delete       Save         Rebooting: Currently set to default       New File:       Browse       No file selected.         Play       Delete       Save         Restoring Default: Currently set to default       New File:       Browse       No file selected.         Play       Delete       Save         Restoring Default: Currently set to default       New File:       Browse       No file selected.         Play       Delete       Save       Ringback tone: Currently set to default       Play       Delete       Save         Ring tone: Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Intrusion Sensor Triggered: Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Door Ajar: Currently set to default       New File:       Browse       No file selected.       Play       Delete       Save         Door Ajar: Currently se
Page tone: Currently set to default         New File:       Browse         No file selected.         Play       Delete         Your IP Address is: Currently set to default         New File:       Browse         No file selected.         Play       Delete         Save         Rebooting:       Currently set to default         New File:       Browse         No file selected.       Play         Play       Delete         Save         Restoring Default:       Currently set to default         New File:       Browse         No file selected.       Play         Play       Delete         Save       Ringback tone:         Ringback tone:       Currently set to default         New File:       Browse         No file selected.       Play         Play       Delete         Save       Intrusion Sensor Triggered:         Intrusion Sensor Triggered:       Currently set to default         New File:       Browse         No file selected.       Play         Play       Delete         Save       Door Ajar:         No file selected.       <	Page tone: Currently set to default         New File:       Browse         Your IP Address is: Currently set to default         New File:       Browse         No file selected.         Play       Delete         Save         Rebooting:       Currently set to default         New File:       Browse         No file selected.         Play       Delete         Save         Rebooting:       Currently set to default         New File:       Browse         No file selected.       Play         Play       Delete         Save         Restoring Default:       Currently set to default         New File:       Browse         No file selected.       Play         Play       Delete         Save       Ring tone:         Ring tone:       Currently set to default         New File:       Browse         No file selected.       Play         Play       Delete       Save         Intrusion Sensor Triggered:       Currently set to default         New File:       Browse       No file selected.         Play       Delete       Save
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New File:       Browse       No file selected.         Your IP Address is:       Currently set to default         New File:       Browse       No file selected.         Play       Delete       Save         Rebooting:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Restoring Default:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Ringback tone:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Ring tone:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Intrusion Sensor Triggered:       Currently set to default         New File:       Browse       No file selected.         Play       Delete       Save         Door Ajar:       Currently set to default       Play         New File:       Browse       No file selected. <td>New File:       Browse       No file selected.         Your IP Address is:       Currently set to default         New File:       Browse       No file selected.         Play       Delete       Save         Rebooting:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Restoring Default:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Ringback tone:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Ring tone:       Currently set to default       New File:         New File:       Browse       No file selected.         Play       Delete       Save         Intrusion Sensor Triggered:       Currently set to default         New File:       Browse       No file selected.         Play       Delete       Save         Door Ajar:       Currently set to default       Play         New File:       Browse       No file selected.</td>	New File:       Browse       No file selected.         Your IP Address is:       Currently set to default         New File:       Browse       No file selected.         Play       Delete       Save         Rebooting:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Restoring Default:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Ringback tone:       Currently set to default       Play         New File:       Browse       No file selected.         Play       Delete       Save         Ring tone:       Currently set to default       New File:         New File:       Browse       No file selected.         Play       Delete       Save         Intrusion Sensor Triggered:       Currently set to default         New File:       Browse       No file selected.         Play       Delete       Save         Door Ajar:       Currently set to default       Play         New File:       Browse       No file selected.
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New File: Browse No file selected.	New File: Browse No file selected.
Play Delete Save	Play Delete Save

Figure 2-21. Audio Configuration Page (continued)

- 2. On the **Audio Configuration** page, you may enter values for the parameters indicated in Table 2-14.
- **Note** Each entry on the **Audio Configuration** page replaces one of the stock audio files on the board. When the input box displays the word **default**, the device is using the stock audio file. If that file is replaced with a user file, it will display the uploaded filename.

The name of the audio configuration option is the same as the spoken audio that plays on the board. '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." '5' corresponds to the spoken word "five." '6' corresponds to the spoken word "six." '7' corresponds to the spoken word "seven."	
the spoken audio that plays on the board. '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." '5' corresponds to the spoken word "five." '6' corresponds to the spoken word "six."	
<ul> <li>'1' corresponds to the spoken word "one."</li> <li>'2' corresponds to the spoken word "two."</li> <li>'3' corresponds to the spoken word "three."</li> <li>'4' corresponds to the spoken word "four."</li> <li>'5' corresponds to the spoken word "five."</li> <li>'6' corresponds to the spoken word "six."</li> </ul>	
<ul> <li>'2' corresponds to the spoken word "two."</li> <li>'3' corresponds to the spoken word "three."</li> <li>'4' corresponds to the spoken word "four."</li> <li>'5' corresponds to the spoken word "five."</li> <li>'6' corresponds to the spoken word "six."</li> </ul>	
<ul> <li>'3' corresponds to the spoken word "three."</li> <li>'4' corresponds to the spoken word "four."</li> <li>'5' corresponds to the spoken word "five."</li> <li>'6' corresponds to the spoken word "six."</li> </ul>	
<ul><li>'4' corresponds to the spoken word "four."</li><li>'5' corresponds to the spoken word "five."</li><li>'6' corresponds to the spoken word "six."</li></ul>	
'5' corresponds to the spoken word "five." '6' corresponds to the spoken word "six."	
'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."	
Corresponds to the spoken word "dot." (24 character limit)	
Corresponds to the message "This is the CyberData II speaker test message" (24 character limit)	
Corresponds to a simple tone used for beep on initialization and beep on page (24 character limit).	
Corresponds to the message "Your IP address is" (24 character limit).	
Corresponds to the spoken word "Rebooting" (24 character limit).	
Corresponds to the message "Restoring default" (24 character limit).	
This is the ringback tone that plays when calling a remote extension (24 character limit).	
This is the tone that plays when set to ring when receiving a call (24 character limit).	
Corresponds to the message "Intrusion sensor triggered."	
Corresponds to the message "Door Ajar" (24 character limit).	
Specifies the ringtone for nightring. By default this parameter uses the same audio file that is selected for the <b>Ring Tone</b> parameter.	
The <b>Browse</b> button will allow you to navigate to and select an audio file.	

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

Web Page Item	Description		
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.		

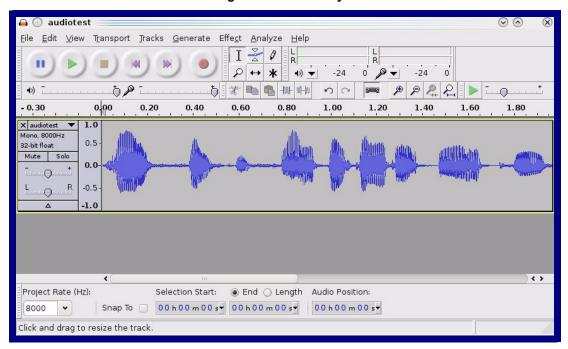
#### Table 2-16. Audio Configuration Parameters (continued)

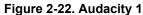
### 2.4.11.1 User-created Audio Files

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 2-22 through Figure 2-24.





🔒 🕐 Edit Metadata 🚃			$\odot$	$\otimes$
Use arrow keys (or RETURN ke	ey after editing) to na	avigate fields.		
Tag Name	Tag Value			
Artist Name				
Track Title				
Album Title				
Track Number				
Year				
Genre				
Comments				
<u>A</u> dd	<u>R</u> emove Template	Clear		
E <u>d</u> it Rese <u>t</u>	Load	<u>Save</u>	S <u>e</u> t Defau	

Figure	2-23.	Audacity	2
--------	-------	----------	---

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

• WAV (Microsoft) signed 16 bit PCM.

🔒 💽 Export Fil	e				$\odot$	×
<u>N</u> ame:	audiotest	wav				
Cause in faildans	(Bharn					
Save in <u>f</u> older:	Ētmp					<u> </u>
✓ Browse for other	ner folders					
🛃/ tmp/					Create Fo <u>l</u> o	der
Places		Name		🗸   Modifi	ed	
🦚 Search		🛅 cscope.4371		Yester	day at 14:30	
🛞 Recently Use	ed	🛅 kde-na		Yester	day at 14:26	
🛅 na		🛅 kde-root		Yester	day at 14:26	
🛅 Desktop		🛅 ksocket-na		09:20		
🔯 File System		🛅 orbit-na		Yester	day at 14:32	
👩 250.1 GB Me	edia	ssh-CIPQVD3392		Yester	day at 14:26	=
		È v814422		Yester	day at 15:45	
						\$
Add →	K <u>R</u> emove			WAV (Microsoft) signed	16 bit PCM	•
			Options			
				⊘ <u>C</u> ancel	<u>Save</u>	•

Figure 2-24. WAV (Microsoft) signed 16 bit PCM

WAV (Microsoft) signed 16 bit PCM

# 2.4.12 Configure the Event Parameters

Click the **Event Config** button to open the **Event Configuration** page. The **Event Configuration** page specifies a remote server that can be used to receive HTTP POST events when actions take place on the board.

Су	berData Ke	ypad In	tercom
Home	Event Configuration		
Device Config	Enable Event Generation:		
Networking	Remote Event Server Remote Event Server IP:	10.0.0.250	
SIP Config	Remote Event Server Port: Remote Event Server URL:	8080 xmlparse_engine	
Button Config	Events	xmiparse_engine	
Nightringer		tton Events:	
Sensor Config	Enable Call Ac Enable Call Termin	22 222000 221 222	
Multicast Config	Enable Relay Activ	ated Events:	
Audio Config	Enable Relay Deactive Enable	ated Events:	
Event Config	Enable Night Enable Multicast S		
	Enable Multicast S		
Autoprovisioning	Enable Powe Enable Se	r on Events:	
Update Firmware	Enable Security Events:		
	Enable 60 second Heart	beat Events:	
	* You need to reboot for changes	to take effect	
	Save Test Event Reboot		

#### Figure 2-25. Event Configuration Page

Table 2-17 shows the web page items on the **Event Configuration** page.

Web Page Item	Description
Enable Event Generation	When selected, Event Generation is enabled.
Remote Event Server	
Remote Event Server IP	Type the Remote Event Server IP address. (64 character limit)
Remote Event Server Port	Type the Remote Event Server port number. (8 character limit)
Remote Event Server URL	Type the Remote Event Server URL. (127 character limit)
Events	
Enable Button Events	When selected, Button Events are enabled.
Enable Call Active Events	When selected, Call Active Events are enabled.
Enable Call Terminated Events	When selected, Call Terminated Events are enabled.
Enable Relay Activated Events	When selected, Relay Activated Events are enabled.
Enable Relay Deactivated Events	When selected, Relay Deactivated Events are enabled.
Enable Ring Events	When selected, Ring Events are enabled.
Enable Night Ring Events	When selected, there is a notification when the device receives a night ring.
Enable Multicast Start Events	When selected, Multicast Start Events are enabled.
Enable Multicast Stop Events	When selected, Multicast Stop Events are enabled.
Enable Power On Events	When selected, Power On Events are enabled.
Enable Sensor Events	When selected, Sensor Events are enabled.
Enable Security Events	When selected, an event is sent every time a security code is entered on the keypad.
Enable 60 Second Heartbeat Events	When selected, 60 Second Heartbeat Events are enabled.
Save	Click the Save button to save your configuration settings.
Save	Note: You need to reboot for changes to take effect.
Test Event	Click on the <b>Test Event</b> button to test an event.
Reboot	Click on the <b>Reboot</b> button to reboot the system.

Table 2-17. Event Configuration

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

### 2.4.12.1 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 VoIP 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 VoIP 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 VoIP 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 VoIP 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 VoIP 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 VoIP 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 VoIP 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 VoIP 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 VoIP Device' MAC='0020f70015b6'>
<event>RELAY ACTIVATED</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 VoIP 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 VoIP Device' MAC='0020f70015b6'>
<event>NIGHTRINGING</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 VoIP Device' MAC='0020f70015b6'>
<event>SECURITY</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 VoIP Device' MAC='0020f70015b6'>
<event>POWER ON</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 VoIP Device' MAC='0020f70015b6'>
<event>DOOR SENSOR</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 VoIP Device' MAC='0020f70015b6'>
<event>INTRUSION SENSOR
<index>8</index>
</cyberdata>
```

# 2.4.13 Configure the Autoprovisioning Parameters

Autoprovisioning can be used to configure your device automatically on boot, after a periodic delay, after sitting idle for a period of time, or at a specified time.

The autoprovisioning file contains the board configuration in xml format. Autoprovisioned values in this file will override values stored in on-board memory.

The autoprovisioning file can be hosted with a tftp or a web server and by default is named according to the MAC address of the device (for example: 0020f7350058.config). The autoprovisioning filename can also be specified.

The device does not have a real time clock but can sync with a network time server on boot.

1. Click the **Autoprovisioning** button to open the **Autoprovisioning Configuration** page. See Figure 2-26.

Figure 2-26. Autoprovisioning Configuration Page

Су	berData Keypad Intercom
Home	Autoprovisioning
Device Config	Autoprovisioning
	Enable Autoprovisioning: 📃
Networking	Get Autoprovisioning from DHCP:
SIP Config	Download Protocol:   HTTP  TFTP  TFTP
Dutter Carl	Autoprovisioning Server (IP Address): 10.0.0.254 Autoprovisioning Filename:
Button Config	Autoprovisioning autoupdate (in minutes): 0
Nightringer	Autoprovision at time (HHMMSS):
	Autoprovision when idle (in minutes $> 10$ ): 0
Sensor Config	
Multicast Config	Get Autoprovisioning Template
Audia Cartin	Clock
Audio Config	NTP Server:
Event Config	north-america.pool.ntp.org
	Posix Timezone String (see manual):
Autoprovisioning	PST8PDT,M3.2.0/2:00:00,M11.1.0/2:00:01
Update Firmware	
	Set Time with external NTP server on boot:
	Periodically update with time server: Time update period (in hours): 24
	Set time from NTP Server
	Current Time
	Current Time in 24 hour format (HHMMSS): 232941
	Set Time
	* Autoprovisioning file name: 0020f7027067.config
··· Autoprovisioning file name: 002017027067.comig	
	* You need to reboot for changes to take effect
	Save Reboot

2. On the **Autoprovisioning Configuration** page, you may enter values for the parameters indicated in Table 2-18.

Web Page Item	Description
Autoprovisioning	
Enable Autoprovisioning	See Section 2.4.13.1, "Autoprovisioning".
Get Autoprovisioning from DHCP	See Section 2.4.13.1, "Autoprovisioning".
Download Protocol	Allows you to select whether the autoprovisioning file is acquired via <b>TFTP</b> or <b>HTTP</b> .
Autoprovisioning Server (IP Address)	See Section 2.4.13.1, "Autoprovisioning" (15 character limit).
Autoprovisioning Filename	Type the desired name for the autoprovisioning file.
Autoprovisioning Autoupdate (in minutes)	Type the desired time (in minutes) that you want the Autoprovisioning feature to update (6 character limit).
	Note: A value of <b>0</b> will disable this option.
Autoprovision at time (HHMMSS)	Type the desired time of day that you want the Autoprovisioning feature to update (must be 6 characters).
	Note: An empty value will disable this option.
Autoprovision when idle (in minutes > 10)	Type the desired time (in minutes greater than 10) that you want the Autoprovisioning feature to update after a certain amount of idle time (6 character limit).
	Note: A value of 0 will disable this option.
Get Autoprovisioning Template	Press the <b>Get Autoprovisioning Template</b> button to create an autoprovisioning file for this unit. See Section 2.4.13.2, "Get Autoprovisioning Template Button"
Clock	
NTP Server	Allows you to select the NTP server (64 character limit).
Posix Timezone String	See Section 2.4.13.3, "Time Zone Strings" (43 character limit).
Set Time with External NTP Server on boot	When selected, the time is set with an external NTP server when the device restarts.
Periodically update with time server	When selected, the time is periodically updated with a time server.
Time update period (in hours)	Allows you to select the time updated period (in hours) (4 character limit).
Set time from NTP Server	Allows you to set the time from the NTP server.
Current Time	
Current Time in 24 hour format (HHMMSS)	Allows you to input the current time in the 24 hour format. (6 character limit)
Set Time	Click on this button to set the clock after entering the current time.
Save	Click the <b>Save</b> button to save your configuration settings.
Jave	Note: You need to reboot for changes to take effect.

Table 2-18. Autoprovisioning Configuration Parameters

Web Page Item	Description
Reboot	Click on the <b>Reboot</b> button to reboot the system.

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

### 2.4.13.1 Autoprovisioning

Autoprovisioning File

It is not necessary to set every option found in the autoprovisioning template. As long as the XML is valid, the file can contain any subset. Options not autoprovisioned will default to the values stored in the on board memory. For example if you only wanted to modify the device name, the following would be a valid autoprovisioning file:

</specific>

Get When this option is checked, the device will automatically fetch its autoprovisioning server address from the DHCP server. The device will use the address specified in **OPTION 150** (TFTP-server-name) or **OPTION 66**. If both options are set, the device will use **OPTION 150**.

Refer to the documentation of your DHCP server for setting up **OPTION 150**.

To set up a Linux DHCPD server to serve autoprovisioning information (in this case using both option 66 and 150), here's an example dhcpd.conf:

```
# dhcpd.conf
#
# Configuration file for ISC dhcpd (see 'man dhcpd.conf')
#
ddns-update-style ad-hoc;
option option-150 code 150 = ip-address;
subnet 10.0.0.0 netmask 255.0.0.0 {
        max-lease-time 120;
        default-lease-time 120;
        option routers
                                         10.0.0.1;
        option subnet-mask
                                         255.0.0.0;
                                         "voiplab";
        option domain-name
        option domain-name-servers
                                          10.0.0.1;
                                                 # Pacific Standard Time
        option time-offset
                                         -8;
        option tftp-server-name
                                         "10.0.254";
        option option-150
                                         10.0.0.254;
```

#### range 10.10.0.1 10.10.2.1;}

Autoprovisioning Instead of using DHCP to provide the autoprovisioning tftp server address, you can specify an Server (IP Address) address manually.

Autoprovisioning When the device is set to autoprovision either after a period of time, or when idle, or at a time of day, the device will do the following:

- Re-download the autoprovisioning file.
- Compare this new file to the one downloaded on boot, and if it finds differences, force a system
  reset.
- After rebooting, the board will configure itself according to this new file.

Autoprovisioned An Autoprovisioned firmware upgrade only happens after a reboot, will take roughly three minutes, Firmware Upgrades and the web page will be unresponsive during this time.

The 'FirmwareVersion' value in the xml file must match the version stored in the 'FirmwareFile'.

```
<FirmwareVersion>v10.2.3</FirmwareVersion>
<FirmwareFile>1023-intercom-uImage</FirmwareFile>
```

If these values are mismatched, the board can get stuck in a loop where it goes through the following sequence of actions:

- 1. The board downloads and writes a new firmware file.
- 2. After the next reboot, the board recognizes that the firmware version does not match.
- 3. The board downloads and writes the firmware file again.

CyberData has timed a firmware upgrade at 140 seconds. Therefore, if you suspect the board is stuck in a loop, either remove or comment out the **FirmwareVersion** line in the XML file and let the board boot as it normally does.

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.

### 2.4.13.2 Get Autoprovisioning Template Button

The **Get Autoprovisioning 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 Get Autoprovisioning Template button.

- You will see a window prompting you to save a configuration file (.config) to a location on your computer (Figure 2-27). 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 2-27.

Opening 0020f701e78e.config	
You have chosen to open:	
0020f701e78e.config	
which is a: config File (7.9 KB)	
from: http://192.168.70.1	
What should Firefox do with this file?	
Open with Browse	
Do this <u>a</u> utomatically for files like this from now on.	
OK Cancel	

#### Figure 2-27. 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.

# 2.4.13.3 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 2-19 shows some common strings.

Table 2-19. Common Time Zone Strings	
--------------------------------------	--

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

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

Table 2-20 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 2-20. Time Zone String Parts

Time Zone String Examples

#### Table 2-21 has some more examples of time zone strings.

#### Table 2-21. Time Zone String 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

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 2-28. 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 2-22 has information about the GMT time in various time zones.

Time Zone	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
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

#### Table 2-22. World GMT Table

# 2.5 Upgrade the Firmware and Reboot the Intercom



### Caution

*Equipment Hazard*: Devices with a serial number that begins with 1861xxxxx can only run firmware versions 10.0.0 or later.

To upload the firmware from your computer:

1. Retrieve the latest Intercom firmware file from the Flush-Mount Indoor Intercom with Keypad **Downloads** page at:

http://www.cyberdata.net/products/voip/digitalanalog/intercomkeypadv3/downloads.html

- 2. Unzip the firmware version file. This file may contain the following:
- Firmware file
- Release notes
- 3. Log in to the Intercom home page as instructed in Section 2.4.3, "Log in to the Configuration Home Page".

4. Click the **Update Firmware** button to open the **Upgrade Firmware** page. See Figure 2-29.

Су	CyberData Keypad Intercom	
Home	Upgrade Firmware	
Device Config	File Upload	
Networking	Firmware Version: v10.2.6	
SIP Config	Please specify a file:	
Button Config	Browse No file selected.	
Nightringer		
Sensor Config		
Multicast Config		
Audio Config		
Event Config		
Autoprovisioning	System will automatically reboot after upgrading firmware	
Update Firmware	Submit	

Figure 2-29. Upgrade Firmware Page

- 5. Click **Browse**, and then navigate to the location of the Intercom firmware file.
- 6. Click Submit.
- **Note** This starts the upgrade process. Once the Intercom has uploaded the file, the **Uploading Firmware** countdown page appears, indicating that the firmware is being written to flash. The Intercom will automatically reboot when the upload is complete. When the countdown finishes, the **Upgrade Firmware** page will refresh. The uploaded firmware filename should be displayed in the system configuration (indicating successful upload and reboot).

Table 2-23 shows the web page items on the Upgrade Firmware page.

#### Table 2-23. Firmware Upgrade Parameters

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

# 2.5.1 Reboot the Intercom

To reboot a Intercom, log in to the web page as instructed in Section 2.4.3, "Log in to the Configuration Home Page".

1. Click **Reboot** (Figure 2-30). A normal restart will occur.

#### Figure 2-30. Reboot System Section

Су	berData	Keypad Intercom
Home	Device Settings	
Device Config	Device Name:	Keypad Intercom
	Change Username:	admin
Networking	Change Password:	() ()
SIP Config	Re-enter Password:	P
Button Config	Current Settings	
Nightringer	Serial Number:	123100000
Nightinger	Mac Address: Firmware Version:	00:20:f7:02:4f:21 v10.2.6
Sensor Config		
Multicast Config	IP Addressing: IP Address:	dhcp 192.168.70.102
Audio Config		255.255.240.0
	Default Gateway:	
Event Config		192.168.65.20 192.168.65.10
Autoprovisioning		
Update Firmware	Speaker Volume: Microphone Gain:	4
opuace i minware		
	SIP Mode is:	enabled dischlad
	Multicast Mode is: Event Reporting is:	disabled disabled
	Nightringer is:	disabled (NOT Registered with SIP Server)
	Keypad Mode is:	Telephone Mode
	Primary SIP Server:	(NOT Registered with SIP Server)
	Backup Server 1: Backup Server 2:	(NOT Registered with SIP Server) (NOT Registered with SIP Server)
Import/Export Settings		
Please specify a configuration file:		
	Browse No file sele	
Export Configuration		
* You need to reboot for changes to take effect		
Save Reboot		

Reboot

# 2.6 Command Interface

Some functions on the device can be activated using simple POST commands to the web interface. The examples in Table 2-24 use the free unix utility, **wget commands**. However, any program that can send HTTP POST commands to the device should work.

# 2.6.1 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-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/command.cgi"post-data "test_relay=yes"
Place call to extension (example: extension 130)	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/command.cgi"post-data "call=130"
Place point-to-point call <sup>b</sup> (example: IP phone address = 10.0.3.72)	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/command.cgi"post-data "call=10.0.3.72"
Terminate active call	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/command.cgi"post-data "terminate=yes"
Force reboot	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/command.cgi"post-data "reboot=yes"
Test Audio button	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/command.cgi"post-data "test_audio=yes"
Announce IP address	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/command.cgi"post-data "speak_ip_address=yes"
Play the "0" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_0=yes"
Play the "1" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_1=yes"
Play the "2" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_2=yes"
Play the "3" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_3=yes"

#### Table 2-24. Command Interface Post Commands

Device Action	HTTP Post Command <sup>a</sup>
Play the "4" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_4=yes"
Play the "5" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_5=yes"
Play the "6" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_6=yes"
Play the "7" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_7=yes"
Play the "8" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_8=yes"
Play the "9" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_9=yes"
Play the "Dot" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_d=yes"
Play the "Audio Test" audio file (from Audio Config)	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_audiotest=yes"
Play the "Page Tone" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_pagetone=yes"
Play the "Your IP Address Is" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_youripaddressis=yes"
Play the "Rebooting" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_rebooting=yes"
Play the "Restoring Default" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_restoringdefault=yes"
Play the "Ringback tone" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_ringback=yes"
Play the "Ring tone" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_ringtone=yes"
Play the "Intrusion Sensor Triggered" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_intrusionsensortriggered=yes"
Play the "Door Ajar" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_doorajar=yes"

## Table 2-24. Command Interface Post Commands (continued)

Device Action	HTTP Post Command <sup>a</sup>
Play the "Night Ring" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "play_nightring=yes"
Delete the "0" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_0=yes"
Delete the "1" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_1=yes"
Delete the "2" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_2=yes"
Delete the "3" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_3=yes"
Delete the "4" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_4=yes"
Delete the "5" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_5=yes"
Delete the "6" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_6=yes"
Delete the "7" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_7=yes"
Delete the "8" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_8=yes"
Delete the "9" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_9=yes"
Delete the "Audio Test" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_audiotest=yes"
Delete the "Page Tone" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_pagetone=yes"
Delete the "Your IP Address Is" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_youripaddressis=yes"
Delete the "Rebooting" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_rebooting=yes"
Delete the "Restoring Default" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_restoringdefault=yes"

## Table 2-24. Command Interface Post Commands (continued)

Device Action	HTTP Post Command <sup>a</sup>
Delete the "Ringback tone" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_ringback=yes"
Delete the "Ring tone" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_ringtone=yes"
Delete the "Intrusion Sensor Triggered" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_intrusionsensortriggered=yes"
Delete the "Door Ajar" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_doorajar=yes"
Delete the "Night Ring" audio file	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/audioconfig.cgi"post-data "delete_nightring=yes"
Trigger the Door Sensor Test (Sensor Config page)	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/sensorconfig.cgi"post-data "doortest=yes"
Trigger the Intrusion Sensor Test (Sensor Config page)	wgetuser adminpassword adminauth-no-challengequiet - O /dev/null "http://10.0.3.71/cgi-bin/sensorconfig.cgi"post-data "intrusiontest=yes"

## Table 2-24. Command Interface Post Commands (continued)

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

b. Must be in point-to-point mode see Section 2.4.6.1, "Point-to-Point Configuration"

# Appendix A: Mounting the VoIP Flush-Mount Indoor Intercom with Keypad

# A.1 Mount the Intercom

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

Quantity	Part Name	Illustration
4	#6 X 3/8-inch,100 Deg.,	())
	Flat Head, Self-Tapping Screw	
4	#6 X 3/8-inch,100 Deg.,	(@)
	Flat Head T15 Security Pin Torx Screw	
1	T15 Security Pin Torx Key	

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

# A.2 Dimensions

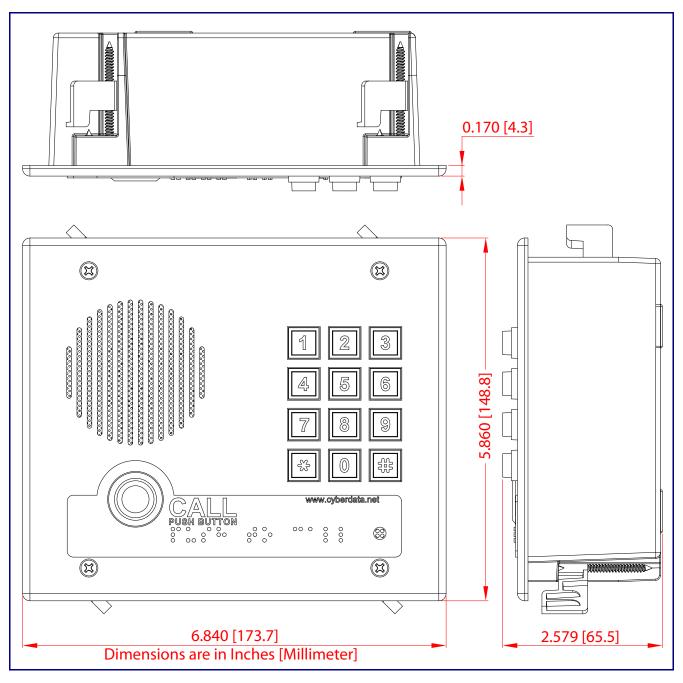
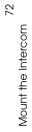
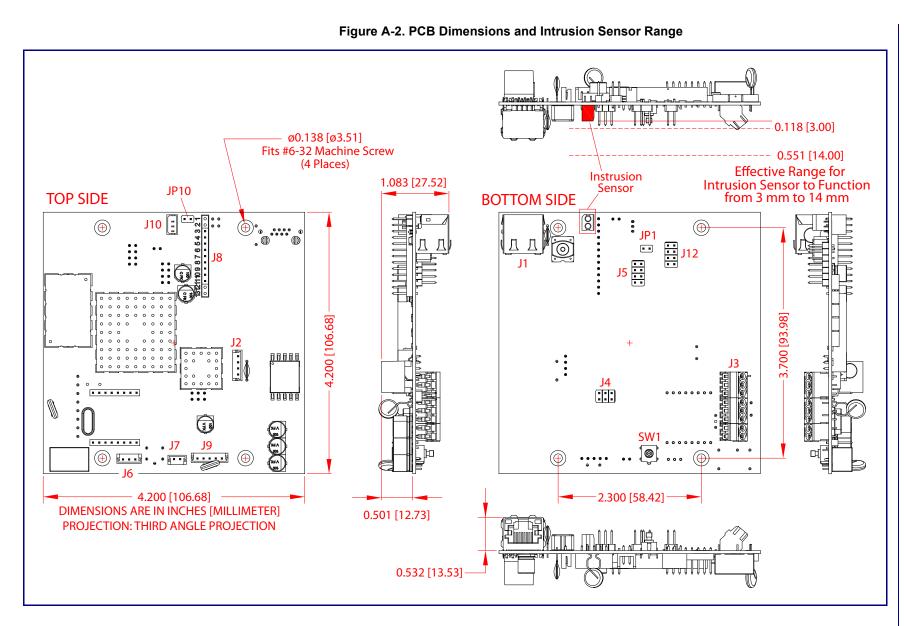


Figure A-1. Unit Dimensions

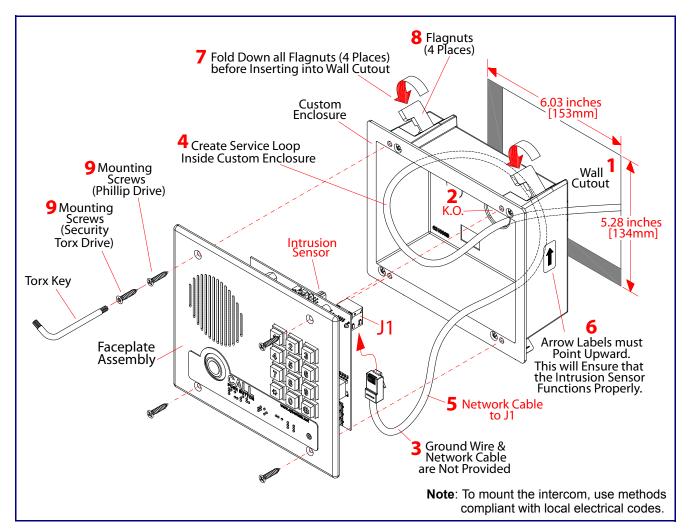




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# A.3 Wall Mounting

Figure A-3 illustrates a wall mounting option for the Flush-Mount Indoor Intercom with Keypad.





## To mount the Intercom:

- 1. Make a wall cutout as shown in the picture.
- 2. Use a flat blade screwdriver to remove the knockout (KO) of the gang box.
- 3. Feed the ground wire (shown in Section A.4, "Ground Cable Installation") and the network cable from the wall cutout through the knockout hole of the gang box.
- 4. Create a service loop for both the ground wire and network cable.
- 5. Plug the network cable into the J1 connector.
- 6. Make sure that the arrow labels are pointing up. This will ensure that the intrusion sensor functions properly.

- 7. Fold down all of the flagnuts, and then insert the gang box into the wall cutout.
- 8. Tighten the flagnuts with a Phillips screwdriver.
- 9. Secure the Intercom faceplate assembly to the gang box with either Phillips screws or security Torx screws.

# A.4 Ground Cable Installation

Figure A-4 illustrates how to connect a ground cable to the Flush-Mount Indoor Intercom with Keypad.

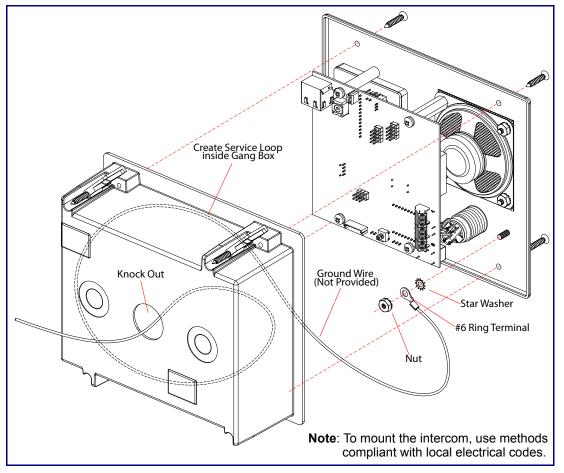


Figure A-4. Ground Cable Installation

# 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, do the following:

1. Go to the following URL:

http://www.cyberdata.net/products/voip/digitalanalog/intercomkeypadflushv3/faqs.html

2. Go to the support page for your product, and click on the **FAQs** tab.

# C.2 Documentation

The documentation for this product is released in an English language version only. You can download PDF copies of CyberData product documentation by doing the following:

1. Go to the following URL:

http://www.cyberdata.net/products/voip/digitalanalog/intercomkeypadflushv3/docs.html

2. Go to the support page for your product, and click on the Documentation tab.

# 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
Technical Support	The fastest way to get technical support for your VoIP product is to submit a VoIP Technical Support form at the following website:
	http://www.cyberdata.net/support/contactsupportvoip.php
	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 <b>Comments</b> section of the Support Form.
	Phone: (831) 373-2601, Ext. 333 Email: support@cyberdata.net
Returned Materials Authorization	To return the product, contact the Returned Materials Authorization (RMA) department:
	Phone: 831-373-2601, Extension 136 Email: RMA@CyberData.net
	When returning a product to CyberData, an approved CyberData RMA number must be printed on the outside of the original shipping package. Also, RMA numbers require an active VoIP Technical Support ticket number. A product will not be accepted for return without an approved RMA number. Send the product, in its original package, to the following address:
	CyberData Corporation 3 Justin Court Monterey, CA 93940 Attention: RMA "your RMA number"
RMA Status Form	If you need to inquire about the repair status of your product(s), please use the CyberData RMA Status form at the following web address:

http://www.cyberdata.net/support/rmastatus.html

# C.4 Warranty

CyberData warrants its product against defects in material or workmanship for a period of two years from the date of purchase. Should the product fail Within Warranty, CyberData will repair or replace the product free of charge. This warranty includes all parts and labor.

Should the product fail Out of the Warranty period, a flat rate repair charge of one half of the purchase price of the product will be assessed. Repairs that are Within Warranty period but are damaged by improper installation, modification, or abuse are deemed Out of Warranty and will be charged at the Out of Warranty rate. A device is deemed Out of Warranty when its purchase date is longer than two years or when the device has been damaged due to human error during installation, modification, or abuse. A replacement unit will be offered at full cost if the device cannot be repaired.

**End of Life Devices out of warranty** are included under this policy. However, End of Life devices are not eligible for our Spare in the Air program. End of Life devices are devices that are no longer produced or sold. Therefore, we cannot offer a Spare in the Air replacement. Technical support is still available for these devices. However, no firmware revisions or updates will be scheduled. If an End of Life device cannot be repaired, a replacement of a current version of the device may be offered at MSRP.

Products shipped to CyberData, both within and out of warranty, are shipped at the expense of the customer. CyberData will pay return shipping charges for repaired products.

CyberData shall not under any circumstances be liable to any person for any special, incidental, indirect or consequential damages, including without limitation, damages resulting from use or malfunction of the products, loss of profits or revenues or costs of replacement goods, even if CyberData is informed in advance of the possibility of such damages.

## C.4.1 Warranty & RMA Returns within the United States

If service is required, you must contact CyberData Technical Support prior to returning any products to CyberData. Our Technical Support staff will determine if your product should be returned to us for further inspection. If Technical Support determines that your product needs to be returned to CyberData, an RMA number will be issued to you at this point.

Your issued RMA number must be printed on the outside of the shipping box. No product will be accepted for return without an approved RMA number. The product in its original package should be sent to the following address:

CyberData Corporation

3 Justin Court.

Monterey, CA 93940

Attn: RMA "xxxxxx"

## C.4.2 Warranty & RMA Returns outside of the United States

If you purchased your equipment through an authorized international distributor or reseller, please contact them directly for product repairs.

## C.4.3 Spare in the Air Policy

CyberData now offers a *Spare in the Air* no wait policy for warranty returns within the United States and Canada. More information about the *Spare in the Air* policy is available at the following web address:

## http://www.cyberdata.net/support/warranty/spareintheair.html

## C.4.4 Return and Restocking Policy

For our authorized distributors and resellers, please refer to your CyberData Service Agreement for information on our return guidelines and procedures.

For End Users, please contact the company that you purchased your equipment from for their return policy.

## C.4.5 Warranty and RMA Returns Page

The most recent warranty and RMA information is available at the CyberData Warranty and RMA Returns Page at the following web address:

http://www.cyberdata.net/support/warranty/index.html

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