



Speakers with Talk-Back Operations Guide

SIP Compliant
Part #011394, 011396

Document Part #932055B
for Firmware Version 23.0

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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:
<https://support.cyberdata.net/>

Phone: (831) 373-2601, Ext. 333

Fax: (831) 373-4193

Company and product information is at www.cyberdata.net.

Revision Information




Revision 932055B, which corresponds to firmware version 23.0.0, was released on January 25, 2026, and has the following changes:

- Adds [Appendix A.3 Electrostatic Discharge \(ESD\) Sensitivity](#)



Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
13. Prior to installation, consult local building and electrical code requirements.

14. WARNING: The Intercom enclosure is not rated for any AC voltages!

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

Pictorial Alert Icons

 GENERAL ALERT	General Alert This pictorial 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 pictorial 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.

Abbreviations and Terms

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

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Chapter 1. Installing the Speaker with Talk-Back

The installation template for the Speaker with Talk-Back is located on the Installation Quick Reference Guide that is included in the packaging with each Speaker.

Additional connections options are shown below.

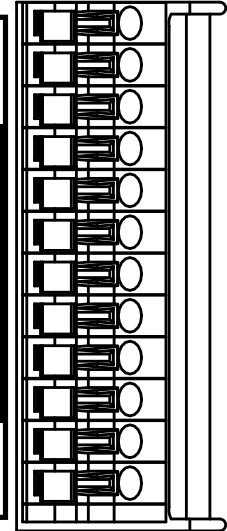
1.1 Optional Connections

Figure 1. Optional Connections

Function	Connections
Auxiliary 8-Ohm speaker connection (not to be used when the Clock is connected)	AUX SPEAKER OUT(-) AUX SPEAKER OUT(+)
Relay contacts rated at 30 VDC @ 1A.	RELAY NO RELAY COM
NOT USED	LINE IN (+) LINE IN (-)
Audio line - level output to external audio amplifier. 2v P-P into 10k Ohms.	LINE OUT (-) LINE OUT (+)
Button positive sense connection	SENSE (+)
Button negative sense connection	SENSE- COM
LED negative connection	LED COM
LED positive connection	LED (+)

12 - AUX SPKR OUT (-)
11 - AUX SPKR OUT (+)
10 - RELAY - NO
9 - RELAY - COM
8 - NOT USED
7 - NOT USED
6 - LINE - OUT (-)
5 - LINE - OUT (+)
4 - BTN SENSE - (+)
3 - BTN SENSE - COM 2
LED COM
1 - LED (+)

CLASS II WIRING

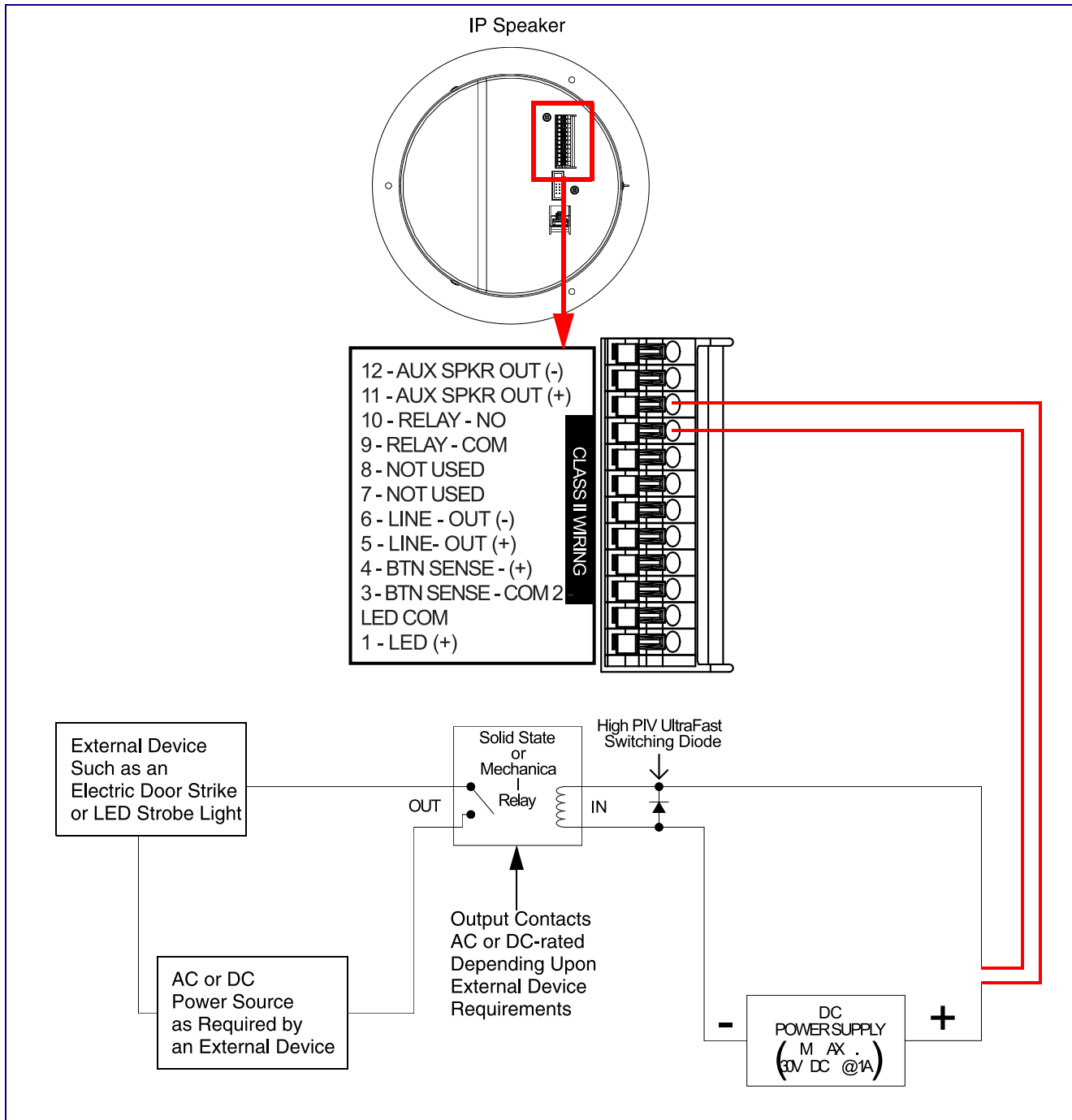


Connections 1 through 4 are intended for use with the **011508 Remote Call Button**

1.2 Speaker with Talk-Back with an External Device

In [Figure 2](#), when the Speaker with Talk-Back is called from a remote phone, the relay on the speaker can be programmed to drive an external device such as an alert strobe. This external device may also be addressed from a separate Unified Communication (UC) server.

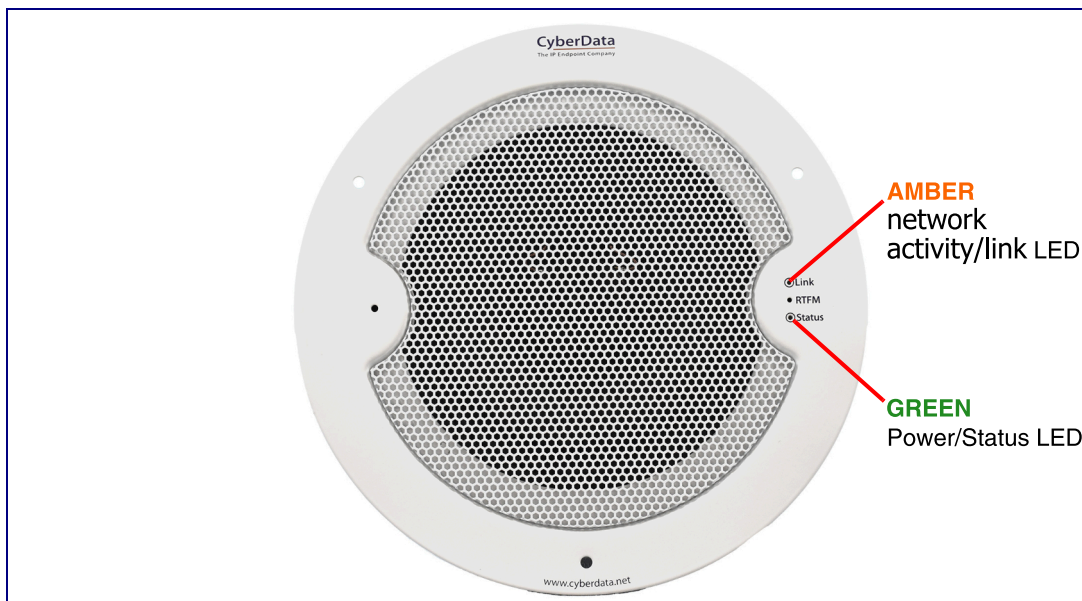
Figure 2. SIP Speaker with Talk-Back with an External Device



1.3 Confirm that the Speaker is Operational and Linked to the Network

After connecting the speaker to the 802.3af compliant Ethernet hub, the LEDs on the speaker face confirm that the speaker is operational and linked to the network.

Figure 3. Status and Activity LEDs



1.3.1 Status LED

After supplying power to the speaker:

1. The green power/status LED and the amber network activity/link LED comes on immediately.
2. After about 23 seconds with a static IP address (or 27 seconds if the board is set to use DHCP), the green LED will blink twice to indicate that the board is fully booted. The speaker will beep at this time if the Beep on Init option is enabled on the Device Page (see Section 2.3, "Device").

Note If the board is set to use DHCP and there is not a DHCP server available on the network, it will try 12 times with a three second delay between tries and eventually fall back to the programmed static IP address (by default 192.168.1.23). This process will take approximately 80 seconds.

Note The front power/status LED will remain solid on during operation.

1.3.2 Link LED

- The Link LED is illuminated when the network link to the speaker is established.
- The Link LED blinks to indicate network traffic.

Chapter 2. Configure the Device

2.1 Log In 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 192.168.1.23.

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:

<https://www.cyberdata.net/pages/discovery>

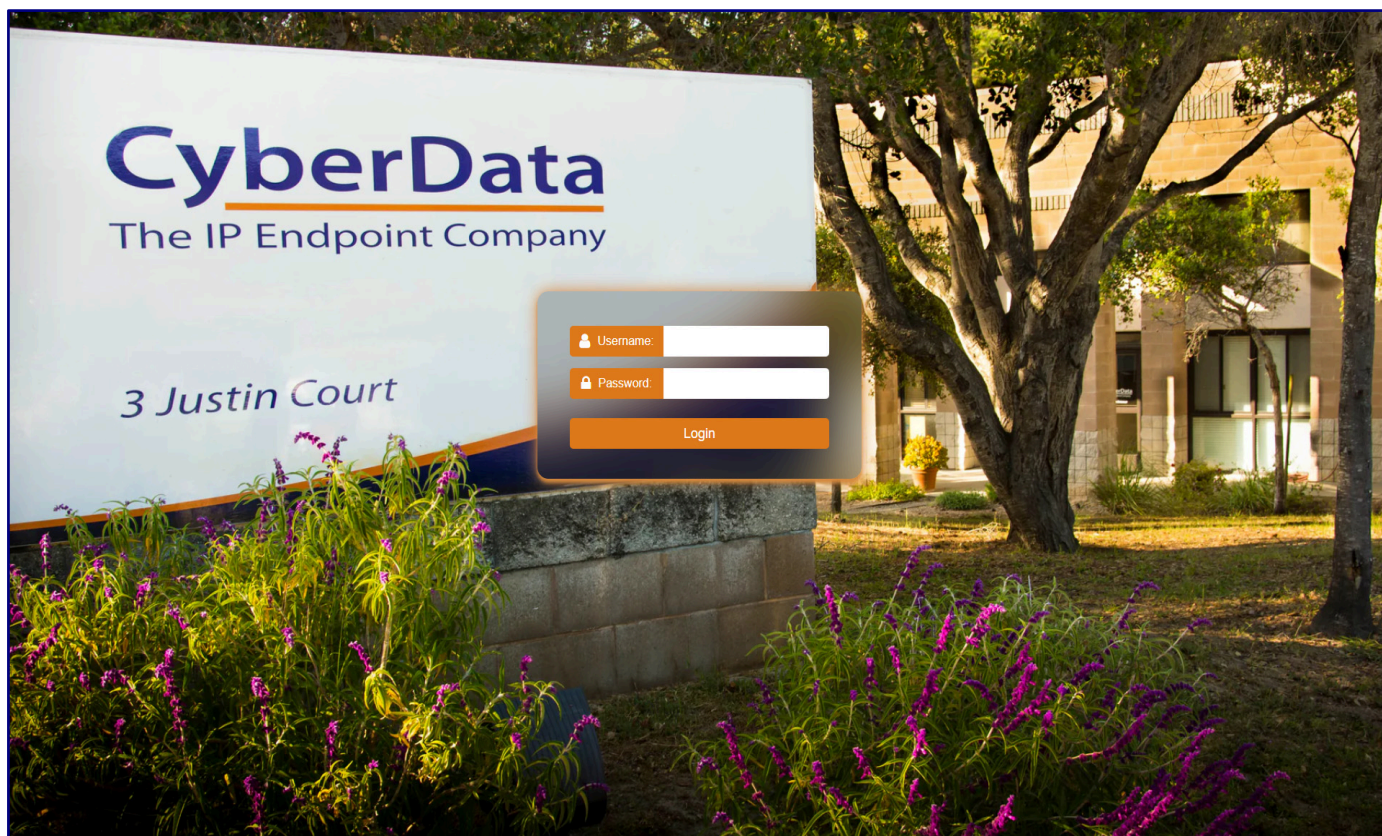
Note The Intercom ships in DHCP mode. To get to the Home page, use the discovery utility to scan for the device on the network and open your browser from there.

2. On the **Log In Page** (Figure 4), use the following default **Web Access Username** and **Web Access Password** to access the **Home Page** (Figure 6):

Web Access Username: **admin**

Web Access Password: **admin**

Figure 4. Log In Page

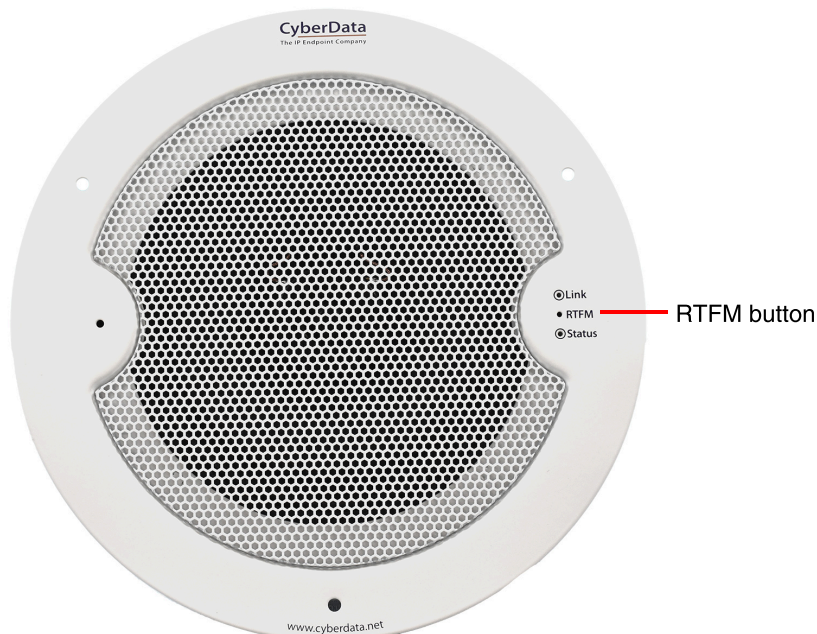


2.1.1 Announcing the IP Address

The RTFM button is located on the front of the each device ([Figure 5](#)). Use a paper clip to access the button through the hole.

Briefly pressing the RTFM button prompts the device to announce its IP address.

Figure 5. RTFM Button



2.1.2 Restoring Factory Defaults

To restore the device to its factory default settings ([Table 1](#)), hold the RTFM button for approximately seven seconds. After 15 to 20 seconds, "Restoring defaults, rebooting" is announced.

The device will default to DHCP to obtain an IP address, or will use 192.168.1.23 if a DHCP server is not present.

Table 1. Factory Default Settings

Parameter	Factory Default Setting
IP Addressing	DHCP
IP Address ^a	192.168.1.23
Web Access Username	admin
Web Access Password	admin
Subnet Mask ^a	255.255.255.0
Default Gateway ^a	192.168.1.1

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

2.2 Home Page

The **Home** page provides device specific information such as Serial Number, Mac Address, and Firmware version. This page is designed as an initial landing page to provide general information on the status of the device.

Figure 6. Home Page

The screenshot displays the CyberData Home Page for a device. The header bar is purple and contains the CyberData logo, product information (SIP Speaker, Firmware v22.0.0), serial and MAC addresses, available storage (1380MB), and device status (Idle). Action buttons (Test, Save, Cancel, Reboot, Logout) are on the right. A vertical sidebar on the left contains icons for various functions. The main content area is divided into six panels:

Device Configuration		Network Status		SIP Registration	
Serial Number	394203569	IP Address Protocol	DHCP	SIP Mode:	Enabled
Mac Address	00:20:f7:05:7f:4a	IP Address	10.10.1.79	Primary Server:	Not registered
Firmware Version	v22.0.0	Subnet Mask	255.0.0.0	Backup Server 1:	Not registered
Partition 2	v22.0.0	Default Gateway	10.0.0.1	Backup Server 2:	Not registered
Partition 3	v22.0.0	DNS Server 1	10.0.1.56	Nightringer Server:	Not registered
Booting Partition	partition 3	DNS Server 2		Monitor Server:	Not registered

Audio Configuration		Sensor Status		System Configuration	
SIP Volume:	1	Relay Status:	Unknown	SIP Mode:	Enabled
Multicast Volume:	1	Door Status:	Unknown	Multicast Mode:	Disabled
Ring Volume:	1	Intrusion:	Unknown	Event Mode:	Disabled
Sensor Volume:	1	RGB Strobe:	Not Installed		
Push to Talk Volume:	4				
Volume Boost:	None				
Microphone Gain:	4				
Push to Talk Microphone Gain:	4				

The footer bar is purple and contains the text "CyberData • Support".

If you are using an InformaCast enabled device, you will see the following:

Figure 7. InformaCast enabled Device

InformaCast Status	
Boot Time	2024/08/05 12:23:27
Current Time	2024/08/05 12:27:28
IC Servers	10.0.1.195
Servers 1	
Servers 2	
Servers 3	
Servers 4	
Servers 5	
Servers 6	
Servers 7	
Servers 8	
Servers 9	
Configuration File	InformaCastSpeaker.cfg
B'casts Accepted	0
B'casts Rejected	0
B'casts Active	0

2.3 Device

The Device page allows for adjustment of settings that pertain to the physical device such as relay settings and time zone.

Figure 8. Device Page

The screenshot displays the CyberData Device Page for a SIP Speaker. The header includes the CyberData logo, product name (SIP Speaker), firmware version (v22.0.0), serial number (394203569), MAC address (00:20:f7:05:7f:4a), available storage (1380MB), and device status (Idle). Action buttons for Test, Save, Cancel, Reboot, and Logout are present.

The settings are organized into several panels:

- Relay Settings:** Control Relay with DTMF Code (OFF), DTMF Pulse Code (123), DTMF Pulse Code Duration (10 seconds), DTMF Activation Code (456), DTMF Deactivation Code (789), Relay During Rings (OFF), Relay During Night Ring (OFF), Relay While Call Active (OFF), Relay On Button Press (OFF), Relay On Button Press Duration (5 seconds), and Relay While Sensor Active (ON).
- Time Settings:** NTP Server (north-america.pool.ntp.org), NTP Timezone (America/Los_Angeles (-8)), and Current Time (Wed, 06 Nov 2024 14:53:32).
- Clock Kit Settings:** Status (Not installed), Ambient Light Sensor (OFF), Brightness (5), Color Type (BLINK), and Time Format (24 hrs).
- DTMF Settings:** Require Security Code (ENABLED), Security Code (****), and Monitor DTMF Toggle Key (* (Star Symbol)).
- Power Settings:** 802.3AT Mode (Not detected. Disabled) and Force 802.3AT Mode (OFF).
- Misc Settings:** Device Name (new_1105), Beep on Init (OFF), and Two Speakers Connected (OFF).

If you are using an InformaCast enabled device, you will see the following:

Figure 9. InformaCast enabled Device

The screenshot shows the InformaCast Settings section. It features a title bar "InformaCast Settings" and a text input field for the InformaCast Server URL, which is set to `http://10.0.1.195:8081/InformaCast/resources`.

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The IP Endpoint Company

Product: SIP Speaker

Firmware: v22.0.0

Serial: 394203569

MAC: 00:20:F7:05:7F:4a

Available Storage: 1380MB

Device Status: Idle

Test

Save

Cancel

Reboot

Logout

Audio Settings

Ambient Noise Compensation: OFF

Volume Boost: None

SIP Volume: 4

Multicast Volume: 4

Ring Volume: 4

Sensor Volume: 4

Push to Talk Volume: 4

Microphone Gain: 4

Push to Talk Microphone Gain: 4

Talkback Settings

Full-Duplex: OFF

Voice-Operated Switch

Voice-Operated Switch: OFF

Push to Talk

Push to Talk (PTT): OFF

DTMF Push to Talk (PTT): OFF

Health Check Settings

Schedule Health Check: OFF

Run once per: Day

Time of Day: 0-23 : 0-59 (HH:MM)

Day of Week: Sunday

Day of Month: 1-31

700Hz reference tone is 73.26% similar to recording: PASS

Wed Nov 6 15:06:44 2024

700Hz reference tone is 88.67% similar to recording: PASS

Wed Nov 6 15:06:46 2024

1000Hz reference tone is 95.38% similar to recording: PASS

Wed Nov 6 15:06:48 2024

2000Hz reference tone is 97.19% similar to recording: PASS

Wed Nov 6 15:06:50 2024

3000Hz reference tone is 94.37% similar to recording: PASS

Wed Nov 6 15:06:51 2024

5000Hz reference tone is 97.19% similar to recording: PASS

Wed Nov 6 15:06:52 2024

7000Hz reference tone is 94.37% similar to recording: PASS

Wed Nov 6 15:06:52 2024

AUDIO HEALTH CHECK FINISHED

Run Health Check

Configure Health Check

Delete Health Check Log

Download Health Check Log

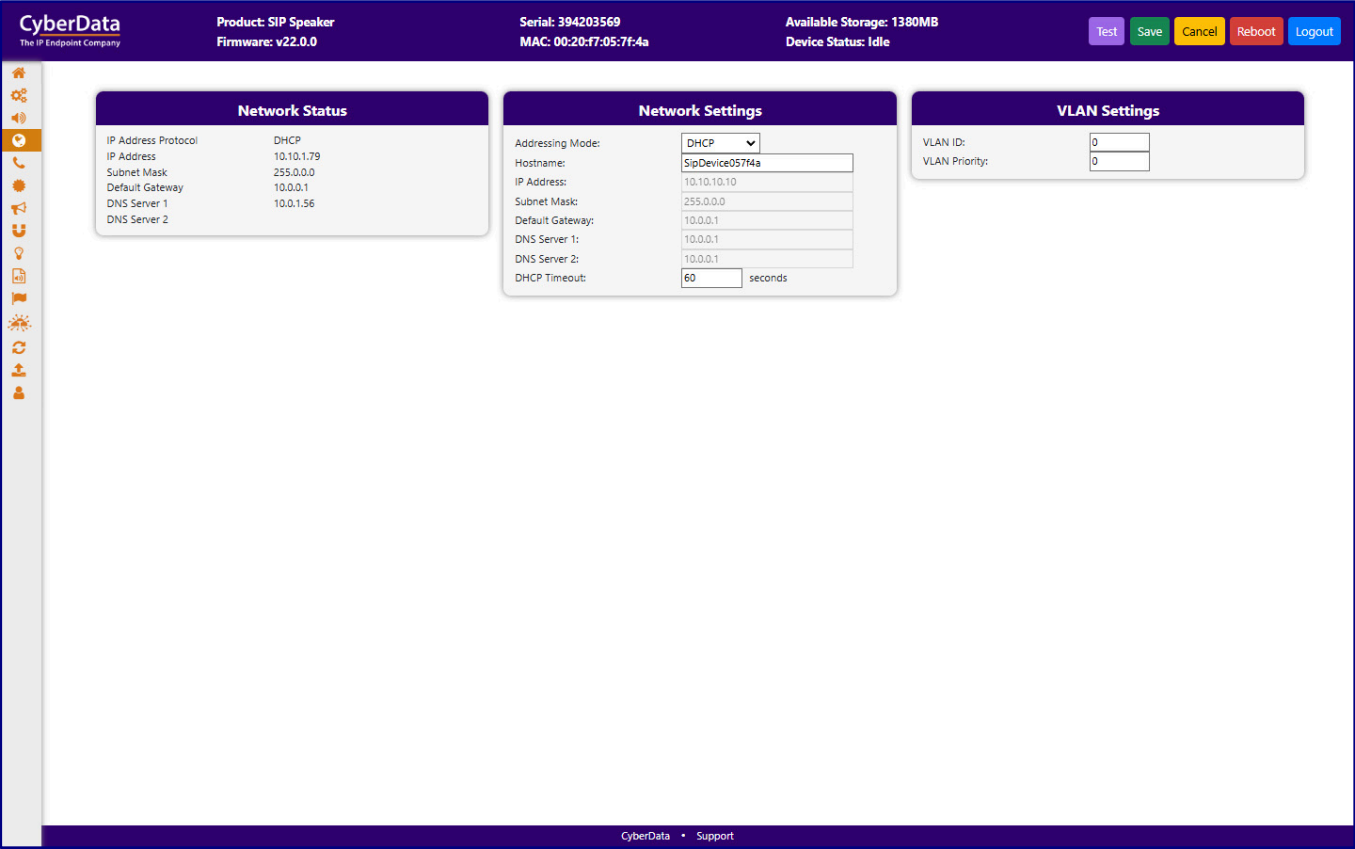
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2.5 Network

The **Network** tab provides access to network-related settings. Assigning the device a static IP address or VLAN is done on this page.

Figure 11. Network Page



2.6 SIP (Session Initiation Protocol)

This page sets the options for phone calls. Configure up to 3 servers, with 2 acting as backup, and a server for the nightringer. The nightringer is a second sip extension that only rings, never connects to a call. Many customers use the nightringer in a hunt group.

Use this page to configure the options for security, transport, codec, and others.

Note For specific server configurations, go to the following website address:

<https://www.cyberdata.net/pages/connecting-to-ip-pbx-servers>

Figure 12. SIP Page

If you are using an InformaCast enabled device, you will see the following:

Figure 13. InformaCast enabled Device

InformaCast SIP Config:	DISABLED ▼
-------------------------	------------

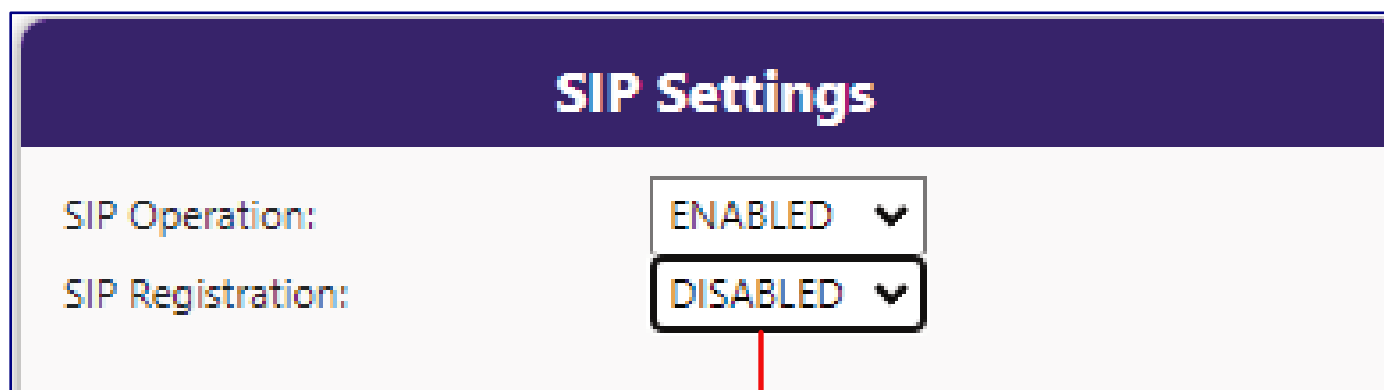
2.6.1 Dial Out Extension Strings and DTMF Tones (using rfc2833)

Outgoing calls support delayed DTMF (rfc2833) with the first comma pausing 2 seconds and subsequent commas pausing 1 second.

2.6.2 Point-to-Point Configuration

Dialing point-to-point allows the device to call and a single endpoint. All CyberData endpoints and many phones can use this option. To do this, enable **SIP Operation**, do not enable **SIP Registration**, and use the endpoint's IP address as the Dial Out extension. Delayed DTMF is supported. See [Figure 14](#).

Figure 14. SIP Page Set to Point-to-Point Mode



The screenshot shows a web interface titled "SIP Settings". Below the title, there are two settings: "SIP Operation:" and "SIP Registration:". The "SIP Operation:" dropdown menu is set to "ENABLED". The "SIP Registration:" dropdown menu is set to "DISABLED". A red line points from the "DISABLED" option to the text below the form.

Device is set to NOT register with a SIP server

2.7 SSL

The **SSL** tab allows for the adjustment of certificates used by the device. The certificates used for the web server, SIP Client, and Autoprovisioning can be changed here. It is also possible to add additional CA certificates on this page. CA Certificates allow the device to authenticate servers that it contacts.

Figure 15. SSL Page (1 of 2)

CyberData
The IP Endpoint Company

Product: SIP Speaker
Firmware: v22.0.0

Serial: 394203569
MAC: 00:20:f7:05:7f:4a

Available Storage: 1380MB
Device Status: Idle

Test Save Cancel Reboot Logout

Web Server Certificate

```

subject=
countryName      = US
stateOrProvinceName = California
localityName     = Monterey
organizationName = Cyberdata
commonName      = 0020f7057f4a
notBefore=Sep 19 19:48:52 2024 GMT
notAfter=Sep 17 19:48:52 2034 GMT

```

Choose Files No file chosen

Import Web Certificate

Restore Web Certificate

SIP Client Certificate

```

subject=
countryName      = US
stateOrProvinceName = California
localityName     = Monterey
organizationName = Cyberdata
commonName      = 0020f7057f4a
notBefore=Sep 19 19:48:52 2024 GMT
notAfter=Sep 17 19:48:52 2034 GMT

```

Choose Files No file chosen

Import SIP Certificate

Restore SIP Certificate

Password (optional):

Autoprovisioning Client Certificate

```

subject=
countryName      = US
stateOrProvinceName = California
localityName     = Monterey
organizationName = Cyberdata
commonName      = 0020f7057f4a
notBefore=Sep 19 19:48:52 2024 GMT
notAfter=Sep 17 19:48:52 2034 GMT

```

Choose Files No file chosen

Import Autoprovisioning Certificate

Restore Autoprovisioning Certificate

Password (optional):

List of Trusted CAs

Upload CA Certificate: Choose Files No file chosen Import CA Certificate

Download CyberData CA Generate Cyberdata CSR Remove All Restore Defaults

1	CyberData_CA.pem	Info	Remove
2	DigiCert_Assured_ID_Root_CA.crt	Info	Remove
3	DigiCert_Assured_ID_Root_G2.crt	Info	Remove
4	DigiCert_Assured_ID_Root_G3.crt	Info	Remove
5	DigiCert_Global_Root_CA.crt	Info	Remove
6	DigiCert_Global_Root_G2.crt	Info	Remove
7	DigiCert_Global_Root_G3.crt	Info	Remove
8	DigiCert_High_Assurance_EV_Root_CA.crt	Info	Remove

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Figure 16. SSL Page (2 of 2)

CyberData
The IP Endpoint Company

Product: SIP Speaker
Firmware: v22.0.0

Serial: 394203569
MAC: 00:20:f7:05:7f:4a

Available Storage: 1380MB
Device Status: Idle

Test Save Cancel Reboot Logout

9	DigiCert_Trusted_Root_G4.crt	Info	Remove
10	GeoTrust_Global_CA.crt	Info	Remove
11	GeoTrust_Primary_Certification_Authority.crt	Info	Remove
12	GeoTrust_Primary_Certification_Authority_-_G2.crt	Info	Remove
13	GeoTrust_Primary_Certification_Authority_-_G3.crt	Info	Remove
14	GeoTrust_Universal_CA.crt	Info	Remove
15	GeoTrust_Universal_CA_2.crt	Info	Remove
16	Go_Daddy_Class_2_CA.pem	Info	Remove
17	Go_Daddy_Root_Certificate_Authority_-_G2.pem	Info	Remove
18	VeriSign_Class_3_Public_Primary_Certification_Authority_-_G4.crt	Info	Remove
19	VeriSign_Class_3_Public_Primary_Certification_Authority_-_G5.crt	Info	Remove
20	VeriSign_Universal_Root_Certification_Authority.crt	Info	Remove
21	Verisign_Class_1_Public_Primary_Certification_Authority.crt	Info	Remove
22	Verisign_Class_1_Public_Primary_Certification_Authority_-_G3.crt	Info	Remove
23	Verisign_Class_2_Public_Primary_Certification_Authority_-_G2.crt	Info	Remove
24	Verisign_Class_2_Public_Primary_Certification_Authority_-_G3.crt	Info	Remove
25	Verisign_Class_3_Public_Primary_Certification_Authority.crt	Info	Remove
26	Verisign_Class_3_Public_Primary_Certification_Authority_-_G3.crt	Info	Remove
27	thawte_Primary_Root_CA.crt	Info	Remove
28	thawte_Primary_Root_CA_-_G2.crt	Info	Remove
29	thawte_Primary_Root_CA_-_G3.crt	Info	Remove

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2.8 Multicast

The Multicast page allows the device to join up to ten paging zones that will activate the strobe when a stream is sent to its address.

A paging zone can consist of one or many CyberData multicast group-enabled products. There is no limit to how many endpoints 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.

Figure 17. Multicast Page

CyberData
The IP Endpoint Company

Product: SIP Speaker
Firmware: v22.0.0

Serial: 394203569
MAC: 00:20:f7:05:7f:4a

Available Storage: 1380MB
Device Status: Idle

Test Save Cancel Reboot Logout

Multicast Settings

Recieve Multicast Audio:

Polycorn Default Channel:

Polycorn Priority Channel:

Polycorn Emergency Channel:

Priority	Address	Port	Name	Buffer	Beep	Relay
0	239.168.3.1	2000	Background Music	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>
1	239.168.3.2	3000	MG1	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>
2	239.168.3.3	4000	MG2	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>
3	239.168.3.4	5000	MG3	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>
4	239.168.3.5	6000	MG4	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>
5	239.168.3.6	7000	MG5	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>
6	239.168.3.7	8000	MG6	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>
7	239.168.3.8	9000	MG7	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>
8	239.168.3.9	10000	MG8	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>
9	239.168.3.10	11000	Emergency	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>	<input type="text" value="DISABLED"/>

SIP calls: Priority 4.5
Port range: 2000-65535
Priority: 9 is the highest, 0 is the lowest
Audio Streams: Higher priority supersedes lower ones
Priority 9: Plays at maximum volume

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2.9 Sensor

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 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.

Each sensor can trigger up to five different actions:

- Flash the LED until the sensor is deactivated (roughly 10 times/second)
- Activate the relay until the sensor is deactivated
- Loop an audio file out of the Intercom speaker until the sensor is deactivated
- Call an extension and establish two way audio
- Call an extension and play a pre-recorded audio file

Note Calling a preset extension can be set up as a point-to-point call, but currently can't send delayed DTMF tones.

Figure 18. Sensor Page

The screenshot displays the CyberData configuration interface for a SIP Speaker. The top header bar contains the following information:

- CyberData** The IP Endpoint Company
- Product:** SIP Speaker, **Firmware:** v22.0.0
- Serial:** 394203569, **MAC:** 00:20:f7:05:7f:4a
- Available Storage:** 1380MB, **Device Status:** Idle
- Buttons: Test, Save, Cancel, Reboot, Logout

The main content area is divided into two panels:

Sensor Settings

Sensor Type:	Normally Open
Open Timeout:	0 seconds
Play Audio Locally:	Disabled
Call Extension:	Disabled
Dial Out Extension:	204
Dial Out ID:	id204
Play Recorded Audio:	Disabled
Repeat Sensor Message:	0

Button Settings

Button Installed:	OFF
Button LED Lit when Idle:	ON
Button LED Brightness:	255
Blink button LED on monitor call:	OFF
Prevent Call Termination:	OFF
Dial Out Extension:	204
Dial Out ID:	id204

The bottom of the page features a footer with the text: CyberData • Support

2.10 Audiofiles

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

This device supports stored messages. When stored messages are enabled, the user will hear "Press 0 to page, press 1 to 9 to play stored message" when calling the device.

To configure stored messages, an audio file must be uploaded, using Choose File and Save. The number of repeats can be specified or set to infinite (where the message plays until cancelled by the # button during a phone call).

Figure 19. Audiofiles Page (1 of 3)

Audio Files				
0:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
1:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
2:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
3:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
4:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
5:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
6:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
7:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
8:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
9:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Audio Test:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Dot:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Night Ring:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Page Tone:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Rebooting:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Restoring Default:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Ring Back:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Ring Tone:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Sensor Triggered:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Stored Message File Not Found:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Your IP Address Is:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>

Figure 20. Audiofiles Page (2 of 3)

Menu Audio Files				
Cancel:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Currently Playing:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Invalid Entry:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Page:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Play Stored Message:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Pound (#):	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Press:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Through:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
To:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>
Enter Security Code Followed by Pound (#) key:	Currently set to:	default	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Play"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>

Figure 21. Audiofiles Page (3 of 3)

Stored Messages

Choose File

No file chosen

Upload Message

Delete All Messages

Stored Message 1:	Currently set to:	default	<div>Choose File</div>	No file chosen	Repeat:	<div>0</div>	Infinite:	<div>OFF</div>	<div>Play</div>	<div>Save</div>	<div>Delete</div>
Stored Message 2:	Currently set to:	default	<div>Choose File</div>	No file chosen	Repeat:	<div>0</div>	Infinite:	<div>OFF</div>	<div>Play</div>	<div>Save</div>	<div>Delete</div>
Stored Message 3:	Currently set to:	default	<div>Choose File</div>	No file chosen	Repeat:	<div>0</div>	Infinite:	<div>OFF</div>	<div>Play</div>	<div>Save</div>	<div>Delete</div>
Stored Message 4:	Currently set to:	default	<div>Choose File</div>	No file chosen	Repeat:	<div>0</div>	Infinite:	<div>OFF</div>	<div>Play</div>	<div>Save</div>	<div>Delete</div>
Stored Message 5:	Currently set to:	default	<div>Choose File</div>	No file chosen	Repeat:	<div>0</div>	Infinite:	<div>OFF</div>	<div>Play</div>	<div>Save</div>	<div>Delete</div>
Stored Message 6:	Currently set to:	default	<div>Choose File</div>	No file chosen	Repeat:	<div>0</div>	Infinite:	<div>OFF</div>	<div>Play</div>	<div>Save</div>	<div>Delete</div>
Stored Message 7:	Currently set to:	default	<div>Choose File</div>	No file chosen	Repeat:	<div>0</div>	Infinite:	<div>OFF</div>	<div>Play</div>	<div>Save</div>	<div>Delete</div>
Stored Message 8:	Currently set to:	default	<div>Choose File</div>	No file chosen	Repeat:	<div>0</div>	Infinite:	<div>OFF</div>	<div>Play</div>	<div>Save</div>	<div>Delete</div>
Stored Message 9:	Currently set to:	default	<div>Choose File</div>	No file chosen	Repeat:	<div>0</div>	Infinite:	<div>OFF</div>	<div>Play</div>	<div>Save</div>	<div>Delete</div>

2.11 Events

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

Figure 22. Events Page

The screenshot shows the CyberData web interface for the Events page. The top header bar is purple and contains the following information: CyberData logo, Product: SIP Speaker, Firmware: v22.0.0, Serial: 394203569, MAC: 00:20:f7:05:7f:4a, Available Storage: 1380MB, and Device Status: Idle. On the right side of the header are buttons for Test, Save, Cancel, Reboot, and Logout. A vertical sidebar on the left contains various icons, with the Events icon highlighted. The main content area has a white background and contains two panels. The 'Event Server' panel on the left has a purple header and contains the following fields: Event Generation (a dropdown menu set to 'DISABLED'), Server IP Address (a text field with '10.0.0.250'), Server Port (a text field with '8080'), and Server URL (a text field with 'xmiparse_engine'). The 'Events' panel on the right also has a purple header and contains a list of event types, each with a corresponding dropdown menu set to 'DISABLED': Application Started Events, Heartbeat Events, Call Started Events, Call Terminated Events, Nightring Events, Multicast Started Events, Multicast Stopped Events, Relay Activated Events, Relay Deactivated Events, Button Events, Sensor Events, and Audio Health Check Events. At the bottom of the page, there is a footer bar with the text 'CyberData • Support'.

If you are using an InformaCast enabled device, you will see the following:

Figure 23. InformaCast enabled Device

The screenshot shows a configuration section for an InformaCast enabled device. It contains two rows. The first row is labeled 'InformaCast Start Events:' and has a dropdown menu set to 'DISABLED'. The second row is labeled 'InformaCast Stop Events:' and also has a dropdown menu set to 'DISABLED'. Both dropdown menus have a downward arrow icon on the right side.

2.11.1 Example Packets for Events

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

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

Here are example packets for every event:

```
POST xmlparse_engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0 Content-Length: 197
Content-Type: application/x-www-form-urlencoded

<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData VoIP Device' MAC='0020f70015b6'>
<event>APPLICATION_STARTED</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</event>
<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>
```

2.12 Terminus

Terminus Cloud Control™ allows users to configure, monitor, and manage notification functions for CyberData's extensive VoIP product line, all from a single, easy-to-use platform. To learn more about Terminus Cloud Control™, go to <https://www.cyberdata.net/pages/terminus>.

The **Terminus** page allows for configuration of settings related to Terminus Cloud Control™

Figure 24. Terminus Page

The screenshot displays the Terminus configuration page within the CyberData web interface. The interface features a dark blue header bar with the CyberData logo on the left. To the right of the logo, the header displays device information: 'Product: SIP Speaker', 'Firmware: v22.0.0', 'Serial: 394203569', 'MAC: 00:20:f7:05:7f:4a', 'Available Storage: 1380MB', and 'Device Status: Idle'. On the far right of the header are five buttons: 'Test' (purple), 'Save' (green), 'Cancel' (yellow), 'Reboot' (red), and 'Logout' (blue). A vertical sidebar on the left contains a series of orange icons representing different system functions. The main content area is white and contains two configuration panels. The first panel, titled 'Discovery Setting', includes three input fields: 'Multicast Address' with the value '239.27.32.4', 'Time to Live' with the value '255', and 'Discovery Interval' with the value '60' followed by the text 'seconds'. The second panel, titled 'Lockdown Settings', includes two fields: 'Lock Down Mode' with the value 'Disabled' and 'Relay' with a dropdown menu showing 'No Action'. At the bottom of the page, a dark blue footer bar contains the text 'CyberData • Support'.

Discovery Setting	
Multicast Address:	239.27.32.4
Time to Live:	255
Discovery Interval:	60 seconds

Lockdown Settings	
Lock Down Mode:	Disabled
Relay:	No Action

2.13 Autoprovisioning

Enabling autoprovisioning allows the device to download provisioning files from a server. It defaults to using DHCP, with options configured in dhcpd.conf on the DHCP server. The file name is <mac address>.xml and if not found, 000000cd.xml.

If a server is named, DHCP is bypassed, and the device will look for a file on the named server.

If a file is named, it will be downloaded instead of <mac address>.xml.

If a server is named, **Use tftp** searches for the file on a tftp server instead of http. If the server is secured (with a password), use **Verify Server Certificate** (username/password) to access it. When using DHCP, these options are configured in dhcpd.conf.

Autoprov autoupdate, **Autoprov at time**, and **Autoprov when idle** options are available with either DHCP or a named server.

The template is an xml file with all options set to default values.

Figure 25. Autoprovisioning Page

The screenshot displays the Autoprovisioning Page in the CyberData interface. The top header includes the CyberData logo, product information (SIP Speaker, Firmware v22.0.0), serial and MAC addresses, available storage (1380MB), and device status (Idle). Navigation buttons (Test, Save, Cancel, Reboot, Logout) are on the right. The main content area is divided into two panels: 'Autoprov Settings' and 'Autoprov Log'.

Autoprov Settings:

- Autoprov: **ENABLED** (dropdown)
- Autoprov Server:
- Autoprov Filename:
- Use tftp: **DISABLED** (dropdown)
- Verify Server Certificate: **DISABLED** (dropdown)
- Username:
- Password:
- Autoprov autoupdate: minutes
- Autoprov at time:
- Autoprov when idle: minutes
- Download Template** (button)

Autoprov Log:

```

2024-11-06 15:21:42 Autoprov: no autoprov triggers. Exiting...
2024-11-06 15:21:47 Autoprov: provisioning on boot
2024-11-06 15:21:47 Autoprov found server="http://10.0.0.242" in dhcp
option 43
2024-11-06 15:21:47 Autoprov looking for 0020f7057f4a.xml at
http://10.0.0.242
2024-11-06 15:21:47 Autoprov downloading
http://10.0.0.242/0020f7057f4a.xml
2024-11-06 15:21:47 Got autoprov file. Parsing "0020f7057f4a.xml"
2024-11-06 15:21:47 Autoprov: dialout failed to parse
/tmp/0020f7057f4a.xml
2024-11-06 15:21:47 Autoprov: informacast failed to parse
/tmp/0020f7057f4a.xml
2024-11-06 15:21:47 Autoprov: multicast failed to parse
/tmp/0020f7057f4a.xml
  
```

2.14 Firmware

Note CyberData strongly recommends that you do not upgrade the firmware when the device is likely to be in use.

To upgrade the firmware of your device:

1. Download the latest firmware from the following CyberData web site, and locate your device:

<https://www.cyberdata.net/collections/sip>
<https://www.cyberdata.net/collections/singlewire> (for InformaCast Enabled devices)

2. Unzip the firmware version file. This file may contain the following:

- Firmware file
- Release notes
- Autoprovisioning template


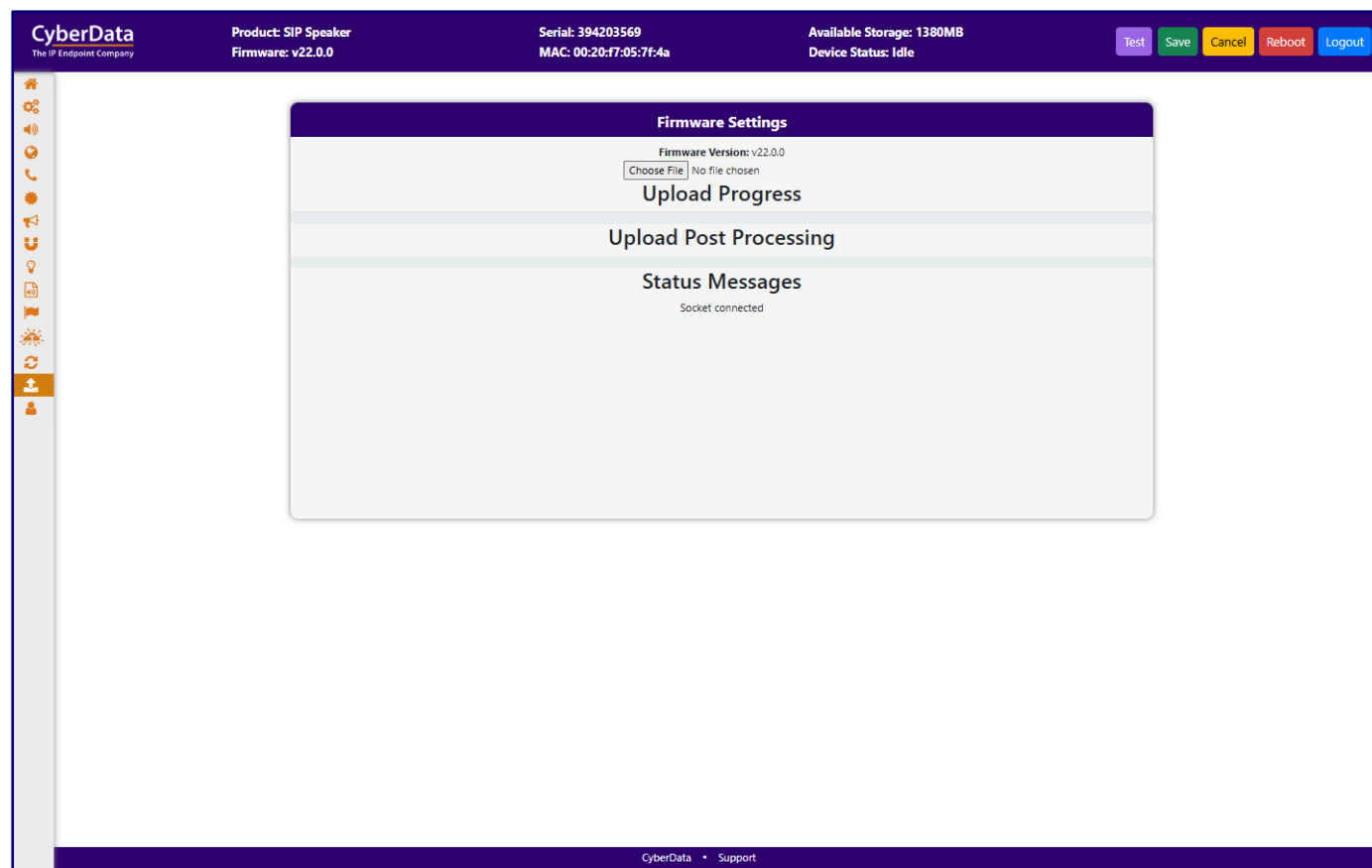
 GENERAL ALERT	<p>Caution</p> <p>Equipment Hazard: Do not reboot the device. It will reboot automatically when the process is complete.</p>
--	--

Figure 26. Firmware Page



The screenshot shows the CyberData web interface for a SIP Speaker. The top navigation bar is dark blue and contains the CyberData logo, product information (SIP Speaker, v22.0.0), device details (Serial: 394203569, MAC: 00:20:f7:05:7f:4a), storage status (1380MB), and device status (Idle). Action buttons (Test, Save, Cancel, Reboot, Logout) are on the right. The main content area is white and features a 'Firmware Settings' panel. This panel includes a 'Firmware Version' section showing v22.0.0, an 'Upload Progress' section, an 'Upload Post Processing' section, and a 'Status Messages' section showing 'Socket connected'. A vertical sidebar on the left contains various system icons.

2.15 Admin

The administrator uses the Users List to create new accounts, assigning user names and passwords, and granting access to specific web pages.

Note Two factor authentication is enabled here.

Figure 27. Admin Page

The screenshot displays the CyberData Admin Page interface. At the top, a header bar contains the CyberData logo, product information (SIP Speaker, v22.0.0), serial and MAC addresses, available storage (1380MB), and device status (Idle). Action buttons (Test, Save, Cancel, Reboot, Logout) are on the right.

The main content area is divided into several sections:

- Admin Settings:** Fields for Username (admin), Password, and Confirm Password.
- Statistics:** Displays Storage (1380MB), Boot Count (27), Reboot Count (23), and Uptime (up 4 minutes).
- Logging Settings:** Includes Debug Level (4) and Log Network Traffic (OFF). Buttons for Get Application Log, Remove Application Log, Get Network Log, Remove Network Log, Get All Logs, and Remove All Logs are present.
- Configuration Settings:** Shows Partition 2 (v22.0.0), Partition 3 (v22.0.0), and Booting Partition (partition 3). Buttons for Restore Default Config, Restore Default Certificates, Import Config, Export Config, and Boot From Other Partition are available.
- Users List:** A table with columns for Username, Home, Device, Audio, Network, SIP, SSL, Multicast, Sensor, Strobe, Audiofiles, Events, Terminus, Autoprov, Firmware, and Admin. A user named 'audio' is listed. Buttons for Add New User, Delete All Users, Import Users, and Export Users are at the top.
- Log Viewer:** A section for viewing logs, with a Service dropdown (Application), Entries to get (250), and Sort dropdown (Oldest). A View Log button is present.

The footer of the page shows 'CyberData • Support'.

2.16 Command Interface

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

2.16.1 Command Interface Post Commands

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

Table 2. Command Interface Post Commands

Device Action	HTTP Post Command ¹
Reboot	wget --user admin --password admin --auth-no-challenge --quiet -O /dev/null --no-check-certificate "https://10.10.1.154/command" --post-data "request=reboot"
Place call to extension (example: extension 600)	wget --user admin --password admin --auth-no-challenge --quiet -O /dev/null --no-check-certificate "https://10.10.1.154/command" --post-data "request=call&extension=600"
Terminate a call	wget --user admin --password admin --auth-no-challenge --quiet -O /dev/null --no-check-certificate "https://10.10.1.247/command" --post-data "request=terminate"
Speak IP Address	wget --user admin --password admin --auth-no-challenge --quiet -O /dev/null --no-check-certificate "https://10.10.1.154/command" --post-data "request=speak_ip_address"
Test Audio	wget --user admin --password admin --auth-no-challenge --quiet -O /dev/null --no-check-certificate "https://10.10.1.154/command" --post-data "request=test_audio"
Swap boot partitions	wget --user admin --password admin --auth-no-challenge --quiet -O /dev/null --no-check-certificate "https://10.10.1.154/command" --post-data "request=swap_boot_partition"

¹ Type and enter all of each http POST command on one line.

A

- Admin 26
- Audio 9
- Audiofiles 17
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Appendix A: Troubleshooting/Technical Support

A.1 Contact Information

Contact CyberData Corporation
3 Justin Court
Monterey, CA 93940 USA
www.cyberdata.net
Phone: 831-373-2601
Fax: 831-373-4193

Sales Sales 831-373-2601, Extension 334

The fastest way to get technical support for your VoIP product is to submit a VoIP Technical Support form at the following website:

<https://support.cyberdata.net/>

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

Phone: (831) 373-2601, Extension 333

A.2 Warranty and RMA Information

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

<https://support.cyberdata.net/>

A.3 Electrostatic Discharge (ESD) Sensitivity

Notice: Electrostatic Discharge (ESD) Sensitivity

This device conforms to IEC 61000-4-2 Criterion-C standards. While the device is designed for remote installation, direct human contact may occasionally cause an electrostatic discharge that results in the device becoming unresponsive. If the device fails to respond after physical interaction, please perform a hard reboot by cycling the power (turning the device off and back on). Normal operation should resume following reboot.