



IP Speaker with Talk-Back Operations Guide

Part #011394, 011396

Document Part #932055A for Firmware Version 20.5.0

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

IP Speaker with Talk-Back Operations Guide 932055A Part # 011394, 011396

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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 Email: support@cyberdata.net

Fax: (831) 373-4193

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

Revision Information

Revision 932055A, which corresponds to firmware version 20.5.0, was released on November 19, 2024.

Pictorial Alert Icons



General Alert

This pictoral alert indicates a potentially hazardous situation. This alert will be followed by a hazard level heading and more specific information about the hazard.



Ground

This pictoral alert indicates the Earth grounding connection point.

Hazard Levels

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

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

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

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

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

Important Safety Instructions

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



Warning

Electrical Hazard: This product should be installed by a licensed electrician according to all local electrical and building codes.



Warning

Electrical Hazard: To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.



Warning

The PoE connector is intended for intra-building connections only and does not route to the outside plant.

Abbreviations and Terms

Abbreviation or Term	Definition	
A-law	A standard companding algorithm, used in European digital communications systems to optimize, i.e., modify, the dynamic range of 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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1 Installing the IP Speaker with Talk-Back

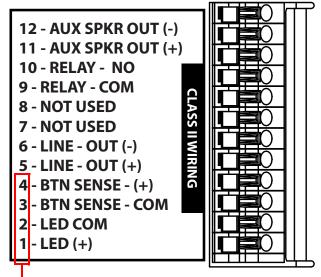
The installation template for the IP Speaker with Talk-Back is located on the Installation Quick Reference Guide that is included in the packaging with each Speaker.

Additional connections options are shown below.

1.1 Optional Connections

Figure 1-1. 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	RELAY NO
30 VDC @ 1A.	RELAY COM
NOT USED	LINE IN (+)
	LINE IN (-)
Audio line - level output to external audio amplifier.	LINE OUT (-)
2v P-P into 10k Ohms.	LINE OUT (+)
Button positive sense connection	
Button negative sense connecti	on SENSE- COM
LED negative connection	LED COM
LED positive connection	LED (+)

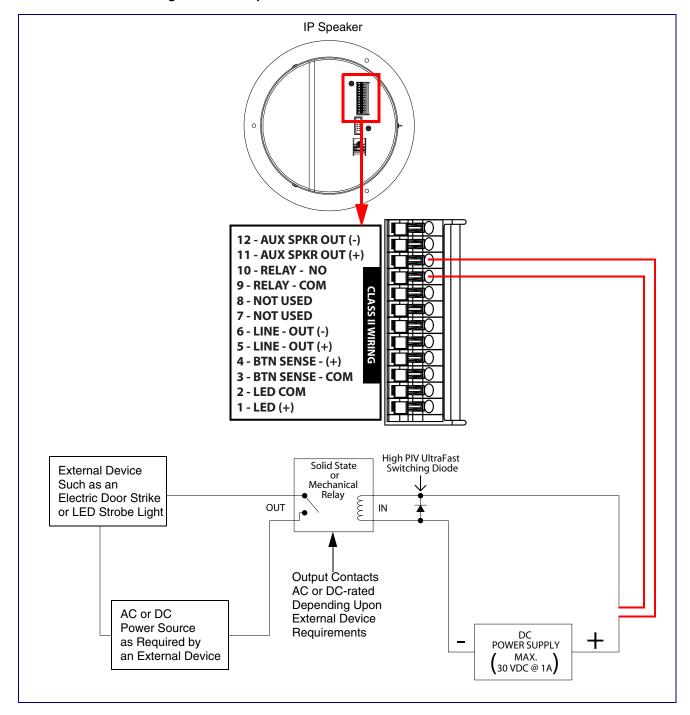


Connections 1 through 4 are intended for use with the 011508 Remote Call Button

1.2 IP Speaker with Talk-Back with an External Device

In Figure 1-2, when the IP 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 1-2. 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.

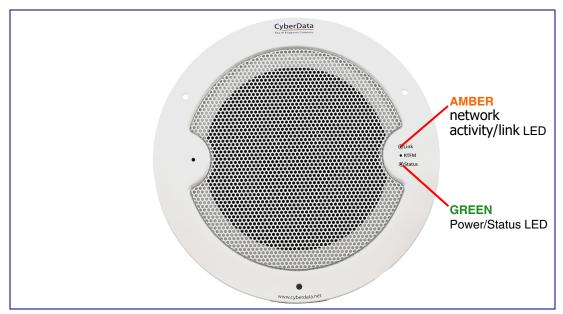


Figure 1-3. Status and Activity LEDs

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 2.2, "Device").

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.

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

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.

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2 Configure the Device

2.1 Home Page

Figure 2-1. Log In Page



1. Open your browser to the IP Speaker with Talk-Back 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 IP Speaker with Talk-Back.

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 2-1), use the following default **Web Access Username** and **Web Access Password** to access the **Home Page** (Figure 2-3):

Web Access Username: admin
Web Access Password: admin

2.1.1 Announcing the IP Address

The RTFM button is located on the front of the each device (Figure 2-2). Use a paper clip to access the button through the hole.

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

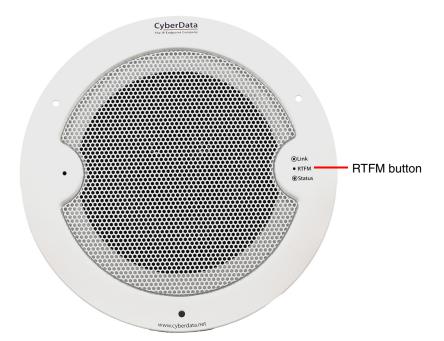


Figure 2-2. RTFM Button

2.1.2 Restoring Factory Defaults

To restore the device to its factory default settings (Table 2-1), hold the RTFM button for approximately seven seconds. After 15 to 20 seconds, "Restoring defaults, rebooting" is announced.

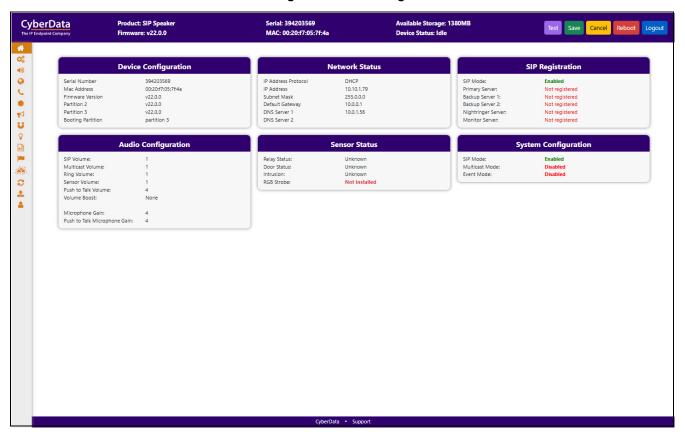
The device will default to DHCP to obtain an IP address, or will use 192.168.1.23 if a DHCP server is not present.

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

Table 2-1. Factory Default Settings

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

Figure 2-3. Home Page



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

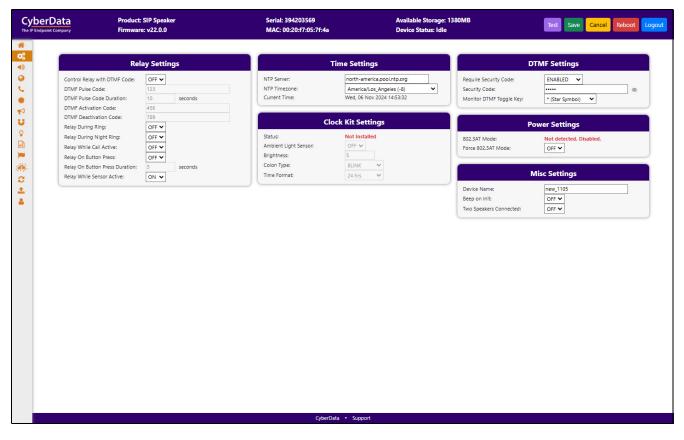
Figure 2-4. InformaCast enabled Device

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	

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2.2 Device

Figure 2-5. Device Page



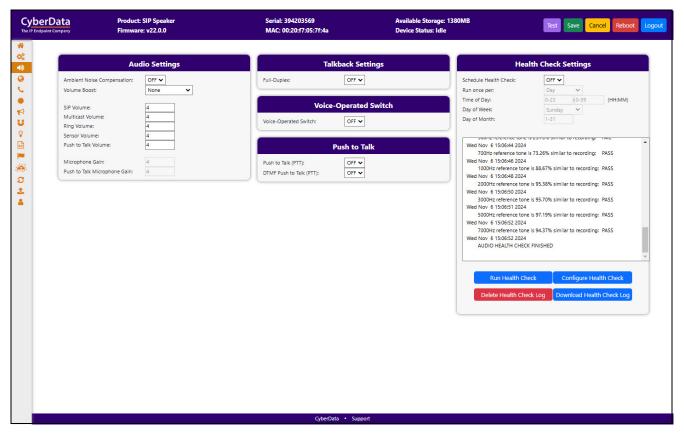
If you are using an InformaCast enabled device, you will see the following:

Figure 2-6. InformaCast enabled Device



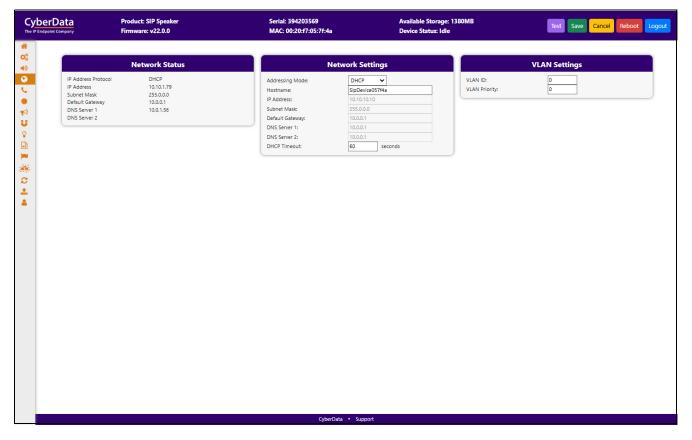
2.3 Audio

Figure 2-7. Audio Page



2.4 Network

Figure 2-8. Network Page



2.5 SIP (Session Initiation Protocol)

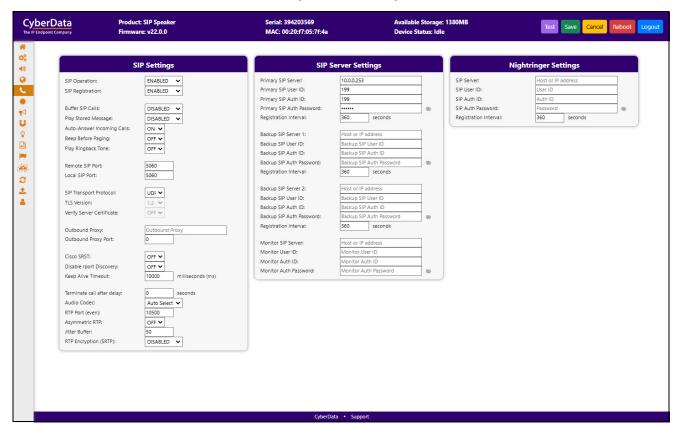
This page sets the options for phone calls. Configure up to 3 servers, with 2 acting as backup, and a server for the nightringer. The nightringer is a second sip extension that only rings, never connects to a call. Many customers use the nightringer in a hunt group.

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

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

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

Figure 2-9. SIP Page



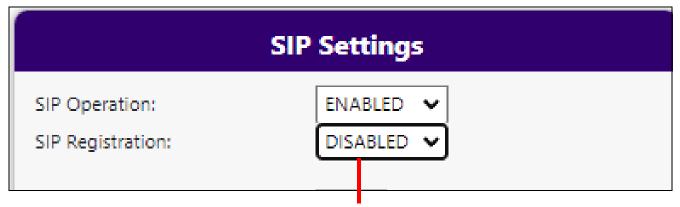
2.5.1 Dial Out Extension Strings and DTMF Tones (using rfc2833)

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

2.5.2 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 2-10.

Figure 2-10. SIP Page Set to Point-to-Point Mode



Device is set to NOT register with a SIP server

2.6 SSL

Figure 2-11. SSL Page

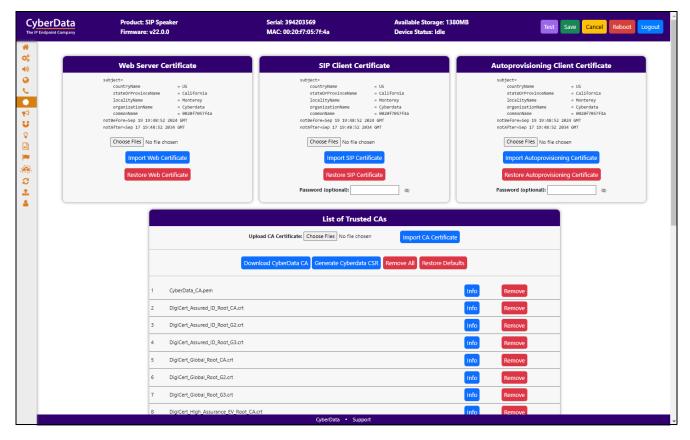
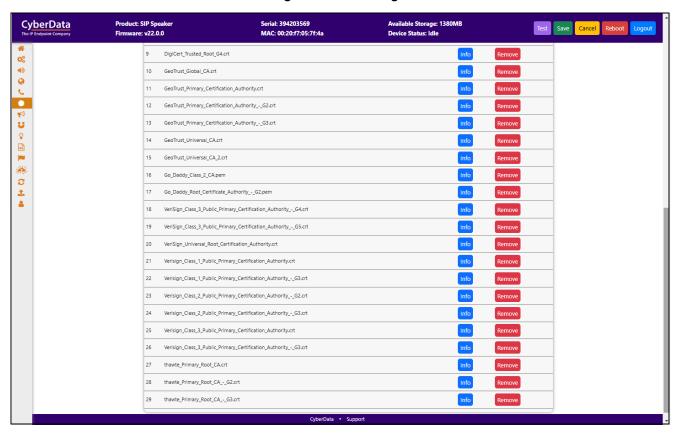


Figure 2-12. SSL Page



2.7 Multicast

The Multicast Configuration page allows the device to join up to ten paging zones for receiving 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 participate 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. 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. 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.

To use Polycom Group Paging, configure a multicast group with the IP address and port number of the Polycom phone. The default is 224.0.1.116, port 5001, but can be configured through the phone. Polycom defaults to channels 1, 24, and 25, but can also be configured. The payload should be 20 ms and the codec G711mu.

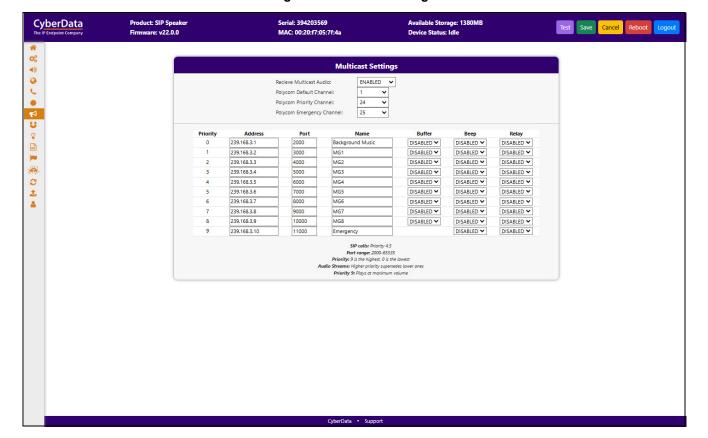


Figure 2-13. Multicast Page

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2.8 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

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

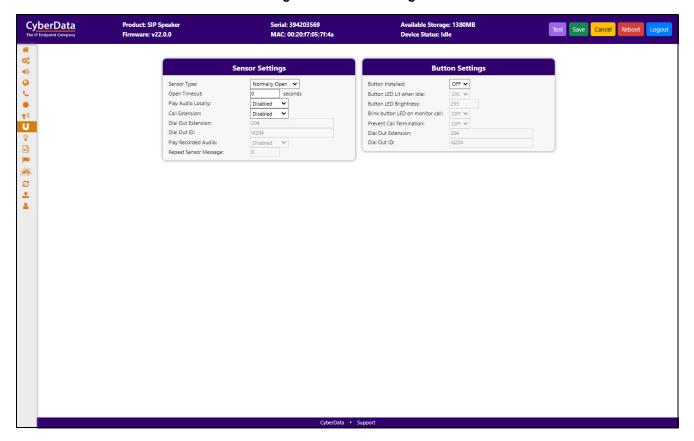


Figure 2-14. Sensor Page

2.9 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 Intercom.

CyberData Product: SIP Speaker Firmware: v22.0.0 Serial: 394203569 Available Storage: 1380MB Test Save Cancel Reboot Logout MAC: 00:20:f7:05:7f:4a **Audio Files** Ø J ***** ♥ U ♡ Currently set to: default Choose File No file chosen Currently set to: default Choose File No file chosen Choose File No file chosen Currently set to: Currently set to: default Choose File No file chosen ■ ※ 3 default Choose File No file chosen Currently set to: Currently set to: default Choose File No file chosen Choose File No file chosen default Choose File No file chosen Currently set to: Currently set to: default Choose File No file chosen Audio Test: Currently set to: Choose File No file chosen default Choose File No file chosen Dot: Currently set to: Choose File No file chosen default Choose File No file chosen Page Tone: Currently set to: Rebooting: Currently set to: default Choose File No file chosen Restoring Default: Currently set to: default Choose File No file chosen Ring Back: Currently set to: default Choose File No file chosen Choose File No file chosen Sensor Triggered: Choose File No file chosen Currently set to: default Stored Message File Not Found: Currently set to: Choose File No file chosen Your IP Address Is: Currently set to: Choose File No file chosen

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Figure 2-15. Audiofiles Page

Figure 2-16. Audiofiles Page

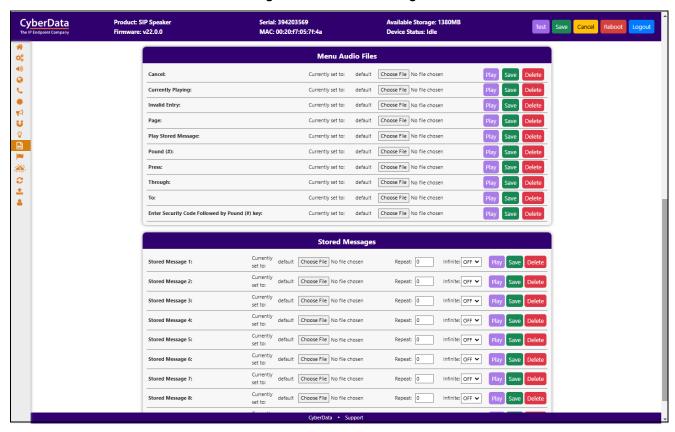
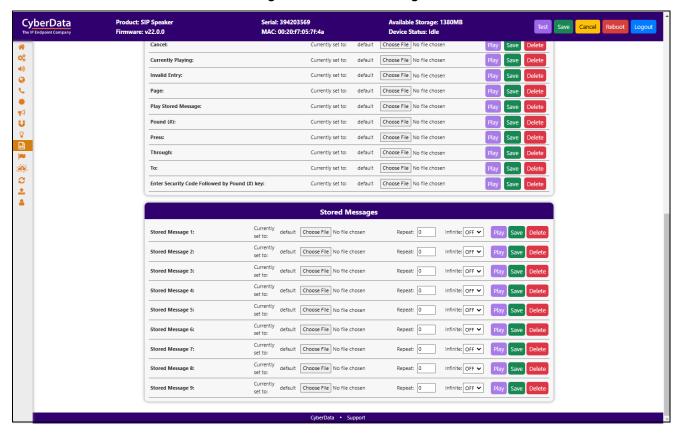


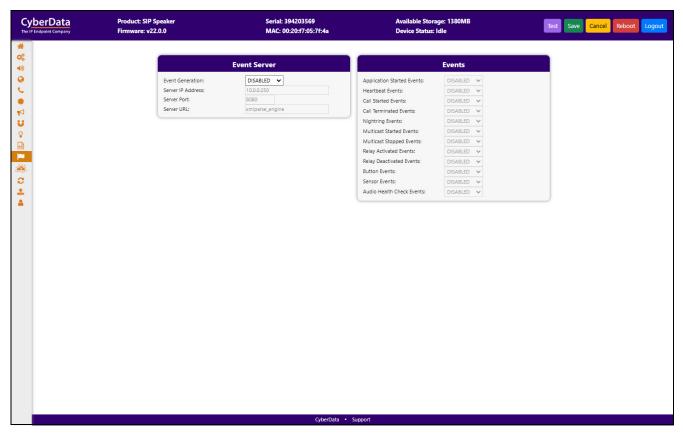
Figure 2-17. Audiofiles Page



2.10 Events

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

Figure 2-18. Events Page



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

Figure 2-19. InformaCast enabled Device



2.10.1 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:

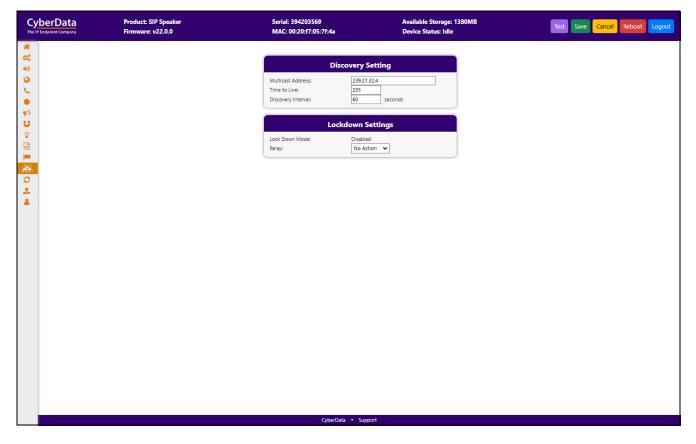
```
POST xmlparse engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 197
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData VoIP Device' MAC='0020f70015b6'>
<event>POWERON</event>
</cyberdata>
POST xmlparse engine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

2.11 Terminus

Figure 2-20. Terminus Page



2.12 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.

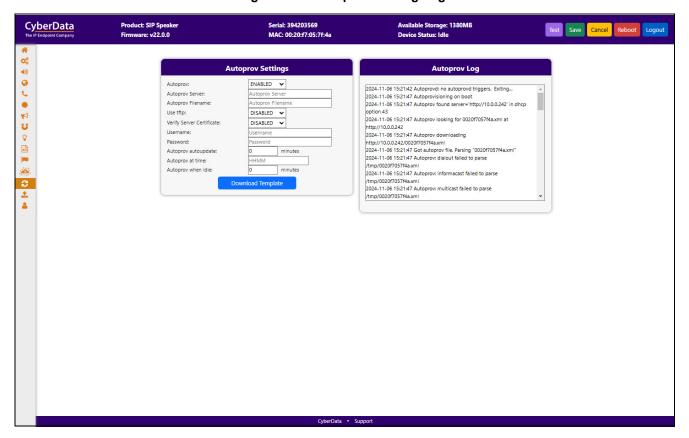


Figure 2-21. Autoprovisioning Page

2.13 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:

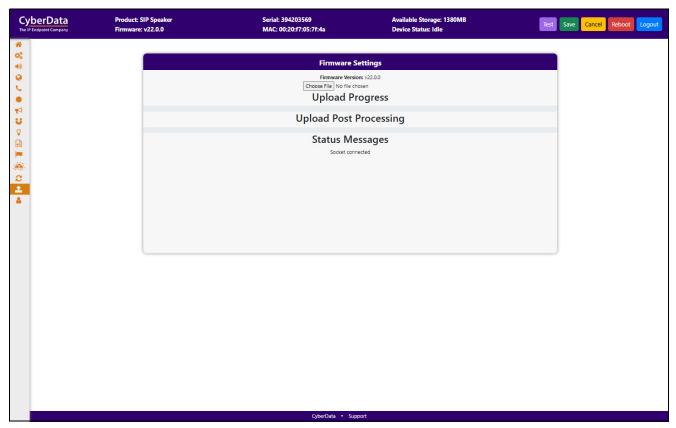
- Download the latest firmware from the following CyberData web site, and locate your device: https://www.cyberdata.net/collections/sip
- 2. Unzip the firmware version file. This file may contain the following:
- · Firmware file
- Release notes
- Autoprovisioning template



Caution

Equipment Hazard: Do not reboot the device. It will reboot automatically when the process is complete.

Figure 2-22. Firmware Page



2.14 Admin

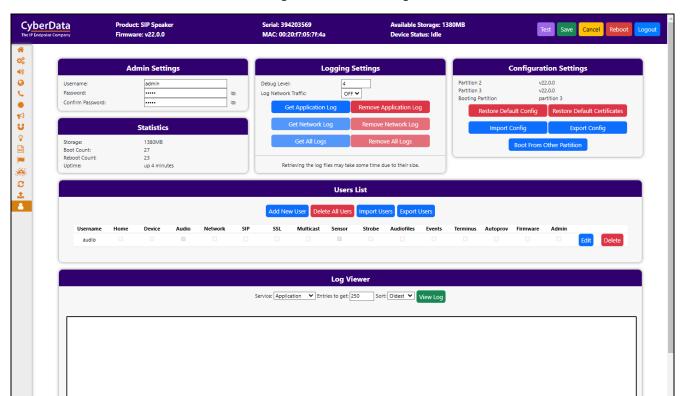


Figure 2-23. Admin Page

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

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

2.15.1 Command Interface Post Commands

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

Table 2-2. Command Interface Post Commands

Device Action	HTTP Post Command ^a
Reboot	wgetuser adminpassword adminauth-no-challengequiet -O /dev/nullno-check-certificate "https://10.10.1.247/command"post-data "request=reboot"
Place call to extension (example: extension 600)	wgetuser adminpassword adminauth-no-challengequiet -O /dev/nullno-check-certificate "https://10.10.1.247/command"post-data "request=call&extension=600"
Terminate a calli	wgetuser adminpassword adminauth-no-challengequiet -O /dev/nullno-check-certificate "https://10.10.1.247/command" post-data "request=terminate"
Speak IP Address	wgetuser adminpassword adminauth-no-challengequiet -O /dev/nullno-check-certificate "https://10.10.1.247/command"post-data "request=speak_ip_address"
Test Audio	wgetuser adminpassword adminauth-no-challengequiet -O /dev/nullno-check-certificate "https://10.10.1.247/command"post-data "request=test_audio"
Swap Boot partitions	wgetuser adminpassword adminauth-no-challengeno-check-certificatequiet -O /dev/null "https://10.10.1.81/command"post-data "request=swap_boot_partition"

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

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

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/

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/

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