



IP66 Indoor/Outdoor Horn Operations Guide

Part #011457, 011472

Document Part #932058A

for Firmware Version 22.0.0

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

IP66 Indoor/Outdoor Horn Operations Guide 932058A Part # 011457, 011472

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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.

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Revision Information

Revision 932058A, which corresponds to firmware version 22.0.0, 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.



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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1.1 Setup and Factory Default settings

Configure each IP66 Indoor/Outdoor Horn and verify its operation before you mount it.

Use a standard web browser to configure the Horn online.

When configuring more than one IP66 Indoor/Outdoor Horn, attach the IHorns to the network and configure one at a time to avoid IP address conflicts.

When you are ready to mount the Horns, refer to the Quick Reference Placemat for instructions. The placemat is available in the **Documentation** tab of the CyberData product webpage for your device.

CyberData delivers each IP66 Indoor/Outdoor Horn with the factory default values indicated in Table 1-1.

Table 1-1. Factory Default Settings

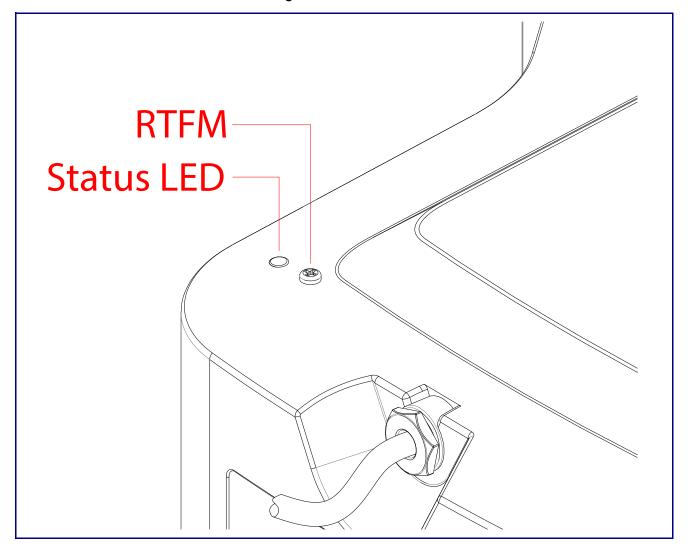
Parameter	Factory Default Setting
IP Addressing	DHCP
IP Address ^a	192.168.1.23
Web Access Username	admin
Web Access Password	admin
Subnet Mask ^a	255.255.255.0
Default Gateway ^a	192.168.1.1

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

1.2 Power Test and Status LED

1. Plug in the CyberData device and monitor the Status LED activity on the bottom side of the horn during the initialization process. See Figure 1-1.

Figure 1-1. Status LED



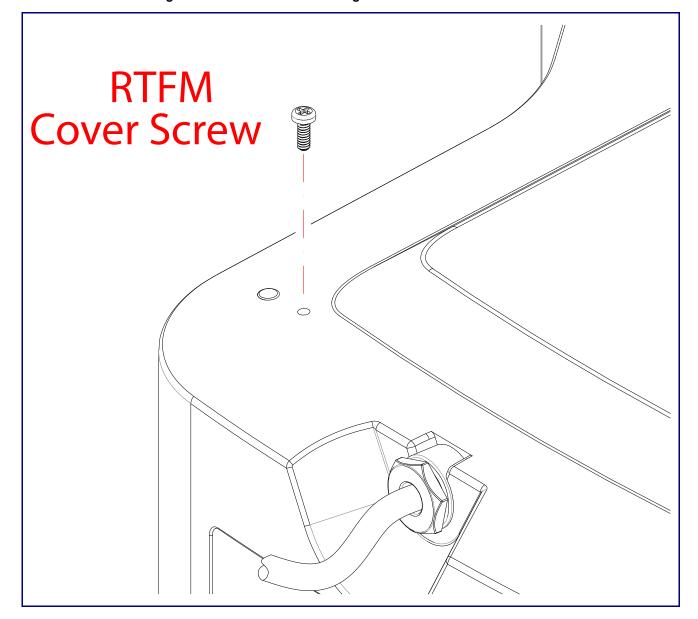
- After about 20 seconds, the GREEN Status LED will blink fast to indicate that the device is
 acquiring an IP address and attempting to autoprovision. It will turn off thereafter until the device
 has finished booting. When the device has fully booted, the GREEN Status LED will turn on
 solid.
 - If there is no DHCP server available on the network, it will try 12 times for 60 seconds and eventually fall back to the programmed static IP address (by default 192.168.1.23) or the previously used DHCP address if a prior lease was established. This process will take approximately 80 seconds.
- When the device has completed the initialization process, pressing and holding the RTFM switch for a couple of seconds will announce the IP address. See Section 1.3, "RTFM Switch" This concludes the power test.

When the IP66 Indoor/Outdoor Horn is operational and linked to the network, use the Reset Test Function Management (RTFM) switch (Figure 1-3) (located behind the hole on the device) to announce and confirm the device's IP Address and test the audio to verify that it is working.

1.3.1 RTFM Access

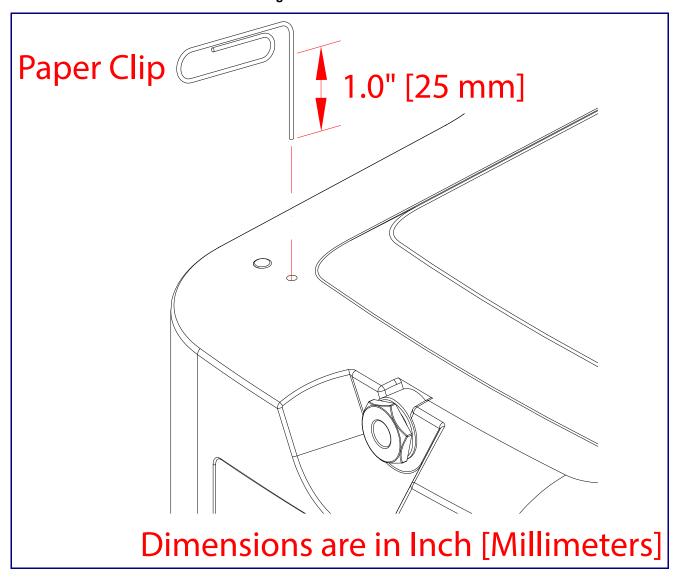
The RTFM switch access will be on the bottom side of the horn hidden under a screw (Figure 1-2) that will be used to keep the unit IP66 sealed with the gasket washer. Remove the screw to gain access to the RTFM switch (Figure 1-3).

Figure 1-2. Remove the screw to gain access to the RTFM switch



4. Use a paper clip to feed through the hole to press the RTFM switch. See Figure 1-3.

Figure 1-3. RTFM Switch



1.3.2 Announcing the IP Address

To announce a device's current IP address:

• Use a bent paperclip or a similar object to press and hold the RTFM switch for a couple of seconds and then release it.



Caution

Equipment Caution: Pressing and holding the RTFM switch for more than five seconds will restore the device to the factory default settings. See the "Restoring the Factory Default Settings" section.

1.3.3 Restoring the Factory Default Settings

To restore the factory default settings, complete the following steps:

- 1. Use a bent paperclip or a similar object to press and hold the RTFM switch until you hear the device announce the words, "restoring defaults" and "rebooting".
- 2. Release the RTFM switch. The device will be restored to the factory default settings.

2 Configure the Device

2.4 Home Page

Figure 2-4. Log In Page



1. Open your browser to the IP66 Indoor/Outdoor Horn 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 IP66 Indoor/Outdoor Horn.

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:

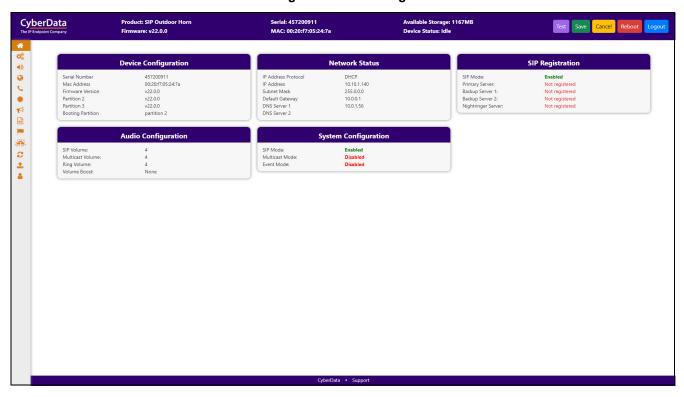
https://www.cyberdata.net/pages/discovery

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 2-4), use the following default **Web Access Username** and **Web Access Password** to access the **Home Page** (Figure 2-5):

Web Access Username: admin Web Access Password: admin

Figure 2-5. Home Page



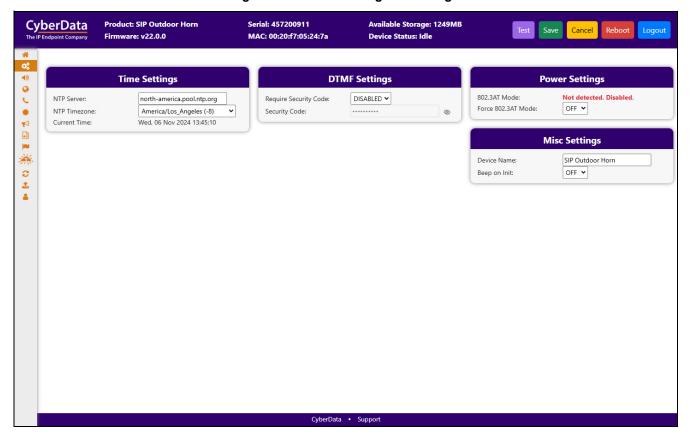
If you are using an InformaCast enabled device, you will see the following:

Figure 2-6. 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	

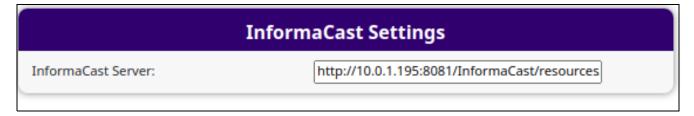
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Figure 2-7. Device Configuration Page



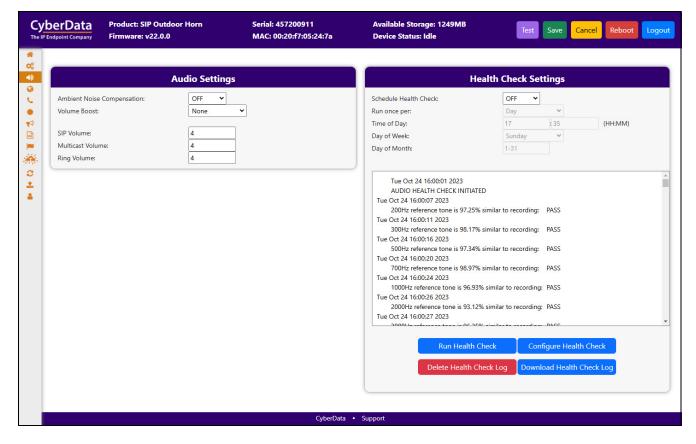
If you are using an InformaCast enabled device, you will see the following:

Figure 2-8. InformaCast enabled Device



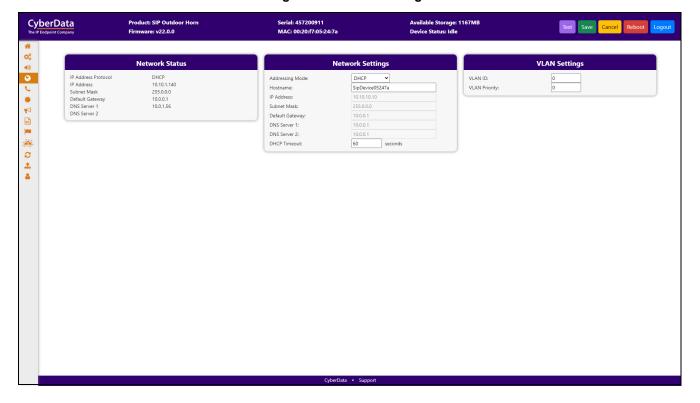
2.6 Audio

Figure 2-9. Audio Page



2.7 Network

Figure 2-10. Network Page



2.8 SIP (Session Initiation Protocol)

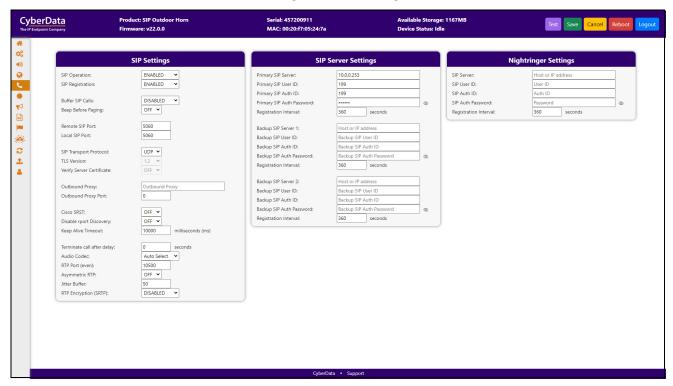
This page sets the options for phone calls. Configure up to 3 servers, with 2 acting as backup, and a server for the nightringer. The nightringer is a second sip extension that only rings, never connects to a call. Many customers use the nightringer in a hunt group.

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 2-11. SIP Page

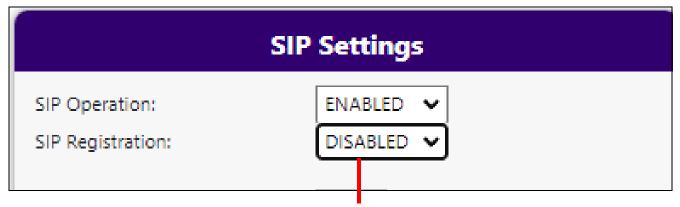


2.8.1 Dial Out Extension Strings and DTMF Tones (using rfc2833)

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

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 2-12.

Figure 2-12. SIP Page Set to Point-to-Point Mode



Device is set to NOT register with a SIP server

2.9 SSL

Figure 2-13. SSL Page

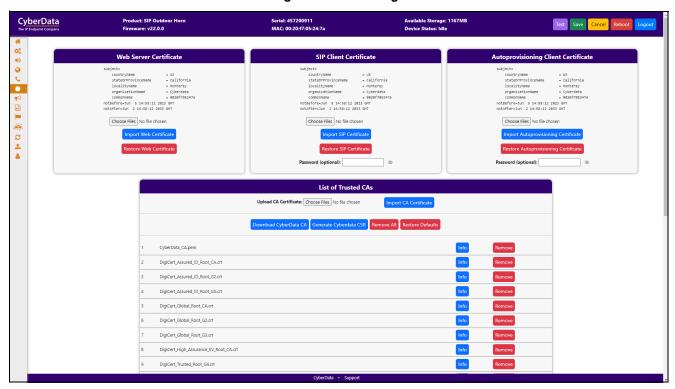
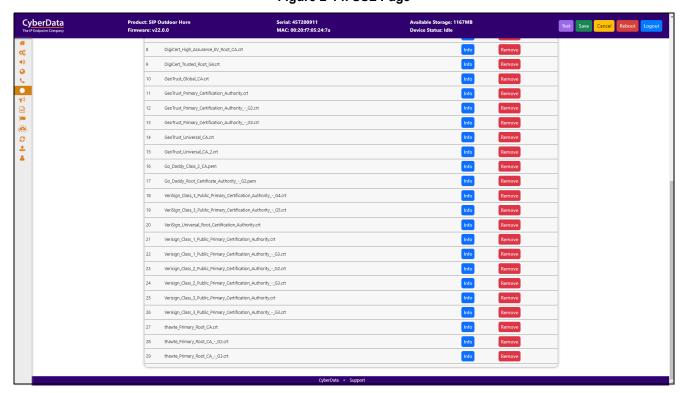


Figure 2-14. SSL Page



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2.10 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.

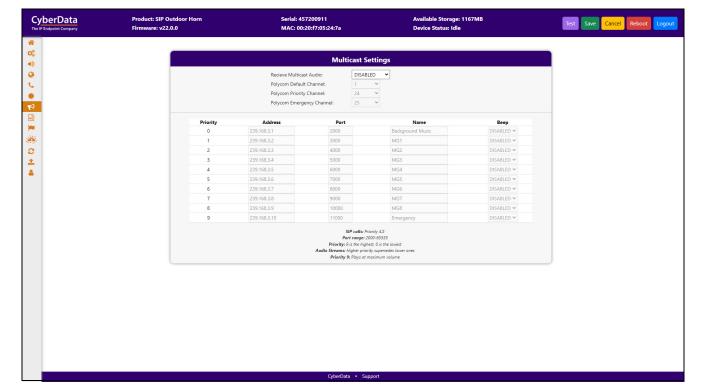


Figure 2-15. Multicast Page

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2.11 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 Outdoor Horn** Serial: 457200911 Available Storage: 1249MB Logout Firmware: v22.0.0 MAC: 00:20:f7:05:24:7a Device Status: Idle Φ_0^0 **Audio Files** ゆるしまで国門祭 0: Currently set to: default Choose File No file chosen Currently set to: default Choose File No file chosen 2: Currently set to: default Choose File No file chosen 3: Choose File No file chosen Currently set to: default 0 Choose File No file chosen 4: Currently set to: default 5: Currently set to: default Choose File No file chosen 6: Currently set to: default Choose File No file chosen Choose File No file chosen 7: Currently set to: default Choose File No file chosen 8: Currently set to: default Currently set to: default Choose File No file chosen Audio Test: Currently set to: default Choose File No file chosen Dot: Currently set to: default Choose File No file chosen Night Ring: Currently set to: default Choose File No file chosen Choose File No file chosen Page Tone: Currently set to: default Rebooting: Currently set to: default Choose File No file chosen Restoring Default: Currently set to: Choose File No file chosen default Stored Message File Not Found: Choose File No file chosen Currently set to: default CyberData • Suppor

Figure 2-16. Audiofiles Page

Figure 2-17. Audiofiles Page

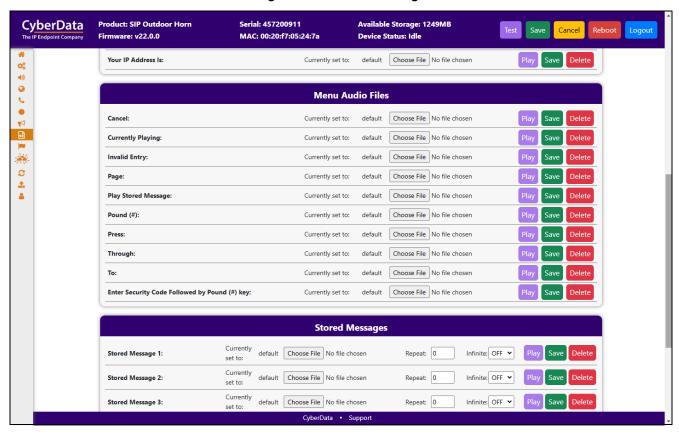
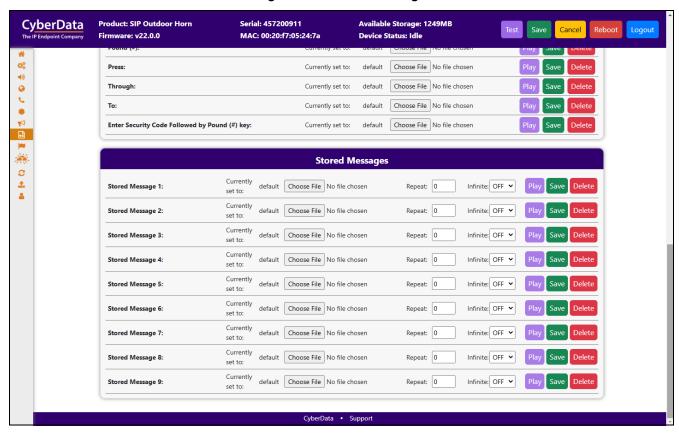


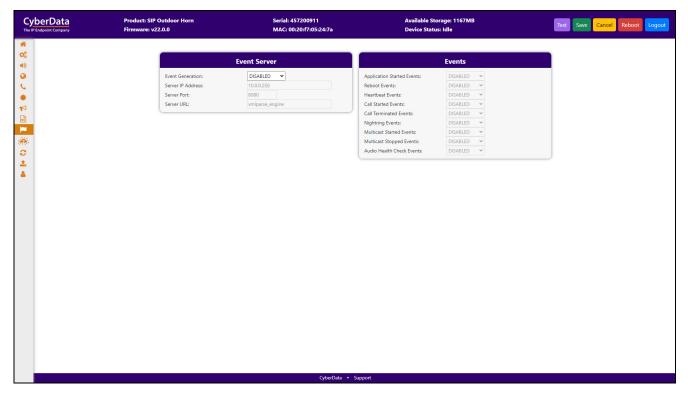
Figure 2-18. Audiofiles Page



2.12 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 2-19. Events Page



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

Figure 2-20. InformaCast enabled Device



2.12.1 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:

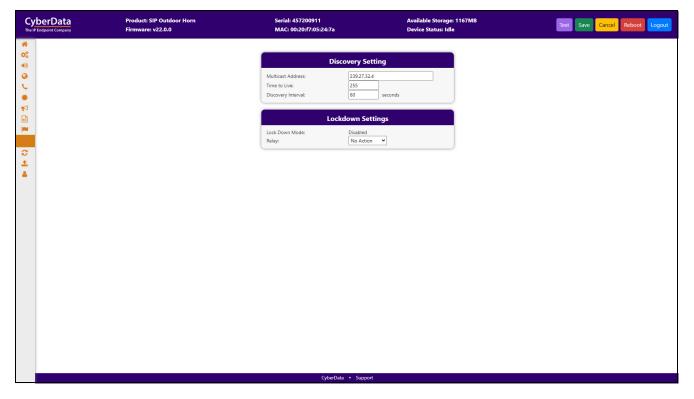
```
POST xmlparse engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 197
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData VoIP Device' MAC='0020f70015b6'>
<event>POWERON</event>
</cyberdata>
POST xmlparse engine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

2.13 Terminus

Figure 2-21. Terminus Page



2.14 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, 00000cd.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.

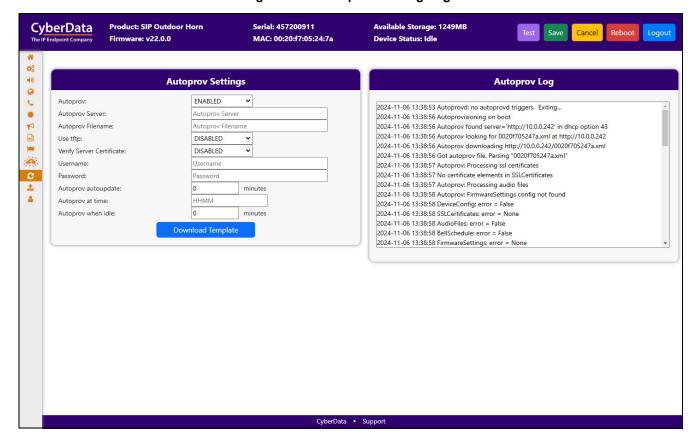


Figure 2-22. Autoprovisioning Page

2.15 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:

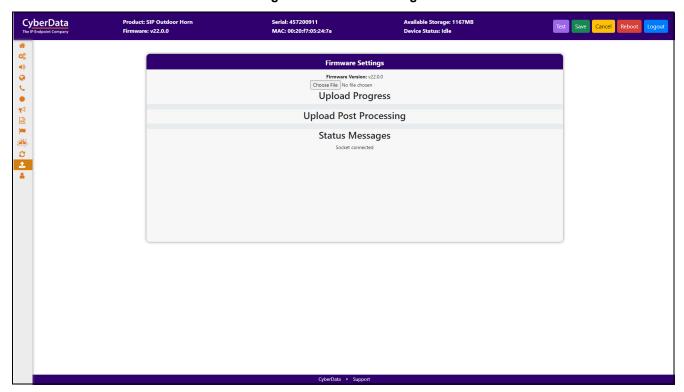
- Download the latest firmware from the following CyberData web site, and locate your device: https://www.cyberdata.net/collections/sip
- 2. Unzip the firmware version file. This file may contain the following:
- · Firmware file
- Release notes
- Autoprovisioning template



Caution

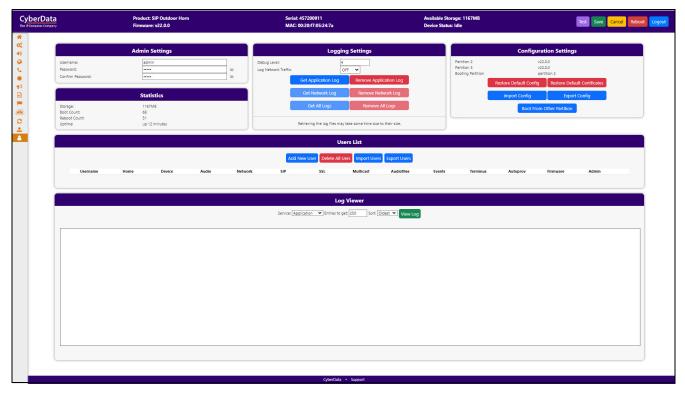
Equipment Hazard: Do not reboot the device. It will reboot automatically when the process is complete.

Figure 2-23. Firmware Page



2.16 Admin

Figure 2-24. Admin Page



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

2.17 Command Interface

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.

2.17.1 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 call	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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