

Paging Amplifier and Loudspeaker Amplifier Operations Guide

Part #011324, 011403, 011405, 011407

Document Part #932064A
for Firmware Version 22.0.1

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Paging Amplifier and Loudspeaker Amplifier Operations Guide 932064A
Part # 011324, 011403, 011405, 011407

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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 932064A, which corresponds to firmware version 22.0.1, was released on November 19, 2024.

Pictorial Alert Icons

 <p>GENERAL ALERT</p>	<p>General Alert</p> <p><i>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.</i></p>
	<p>Ground</p> <p><i>This pictorial alert indicates the Earth grounding connection point.</i></p>

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.

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

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

Chapter 1 Installing the Paging Amplifier and Loudspeaker Amplifier	9
1.1 Paging Amplifier and Loudspeaker Amplifier Setup	9
1.1.1 Connecting the Paging Amplifier and Loudspeaker Amplifier	10
1.1.2 Paging Amplifier and Loudspeaker Amplifier System Installation and Connection Options	13
1.1.3 Strobe Connections Behind the Port Cover	15
1.1.4 Connecting the 011288 Auxiliary RGB (Multi-Color) Strobe Kit	16
1.1.5 Ethernet Connection	19
1.1.6 Loudspeaker Type	19
1.1.7 Cabling/Wiring	19
1.1.8 Confirm Operation	20
1.1.9 Confirm the IP Address and Test the Audio	21
Chapter 2 Configure the Device	22
2.2 Home Page	22
2.2.1 Announcing the IP Address	23
2.2.2 Restoring Factory Defaults	23
2.3 Device	26
2.4 Audio	27
2.5 Network	28
2.6 SIP (Session Initiation Protocol)	29
2.6.1 Dial Out Extension Strings and DTMF Tones (using rfc2833)	29
2.6.2 Point-to-Point Configuration	30
2.7 SSL	31
2.8 Multicast	34
2.9 Sensor	35
2.10 Audiofiles	36
2.11 Events	38
2.11.1 Example Packets for Events	39
2.12 Terminus	42
2.13 Autoprovisioning	43
2.14 Firmware	44
2.15 Admin	45
2.16.1 Command Interface Post Commands	46
Appendix A Troubleshooting/Technical Support	47
A.1 Contact Information	47
A.2 Warranty and RMA Information	47
Index	48

1 Installing the Paging Amplifier and Loudspeaker Amplifier

1.1 Paging Amplifier and Loudspeaker Amplifier Setup

Set up and configure each Paging Amplifier and Loudspeaker Amplifier *before* you mount it.

CyberData delivers each Paging Amplifier and Loudspeaker Amplifier with the factory default values indicated in

[Table 1-1:](#)

Table 1-1. Factory Default Settings—Default of Network

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

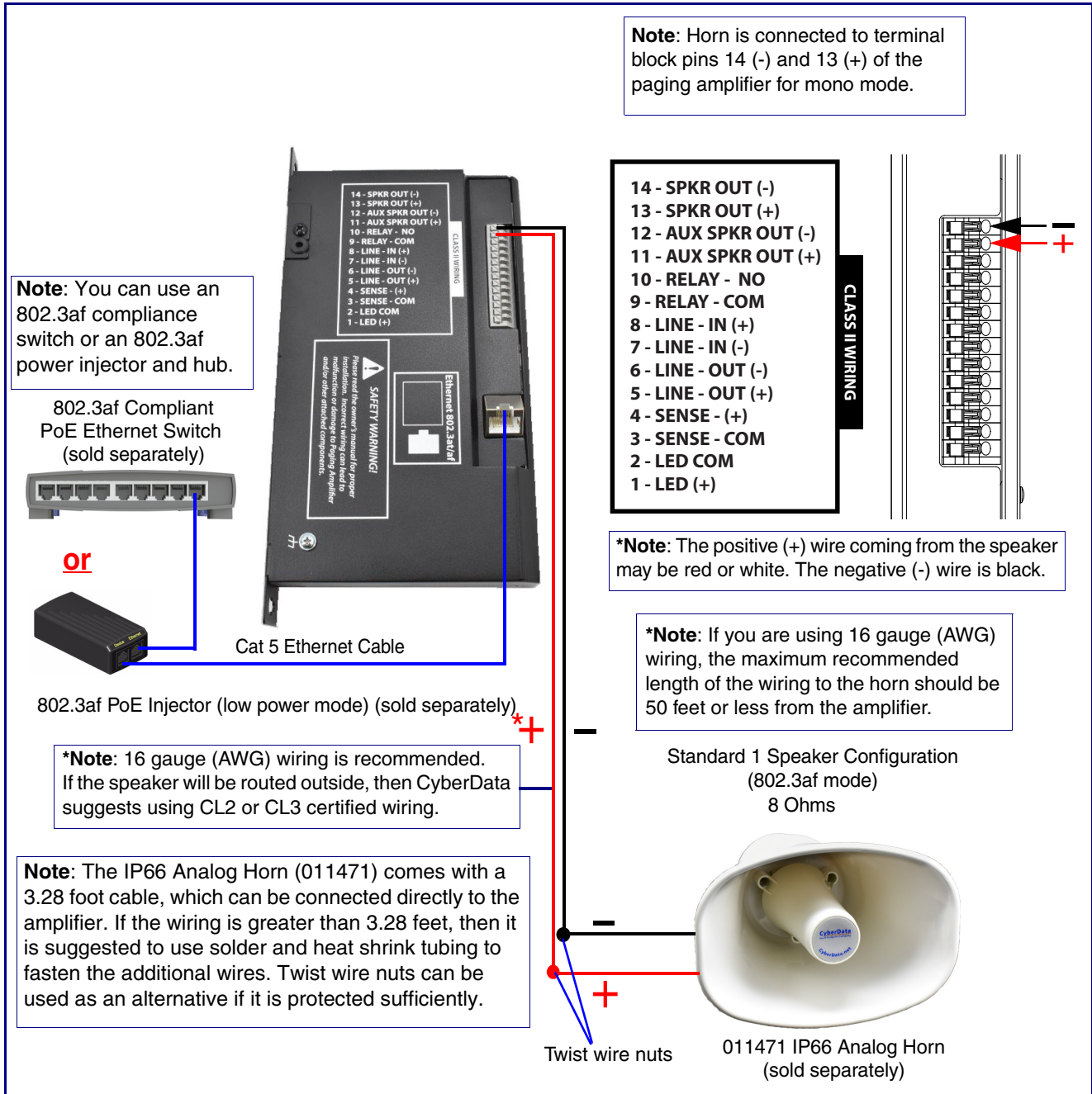
a. Default if there is not a DHCP server present.

1.1.1 Connecting the Paging Amplifier and Loudspeaker Amplifier

1.1.1.1 Using the Amplified Outputs

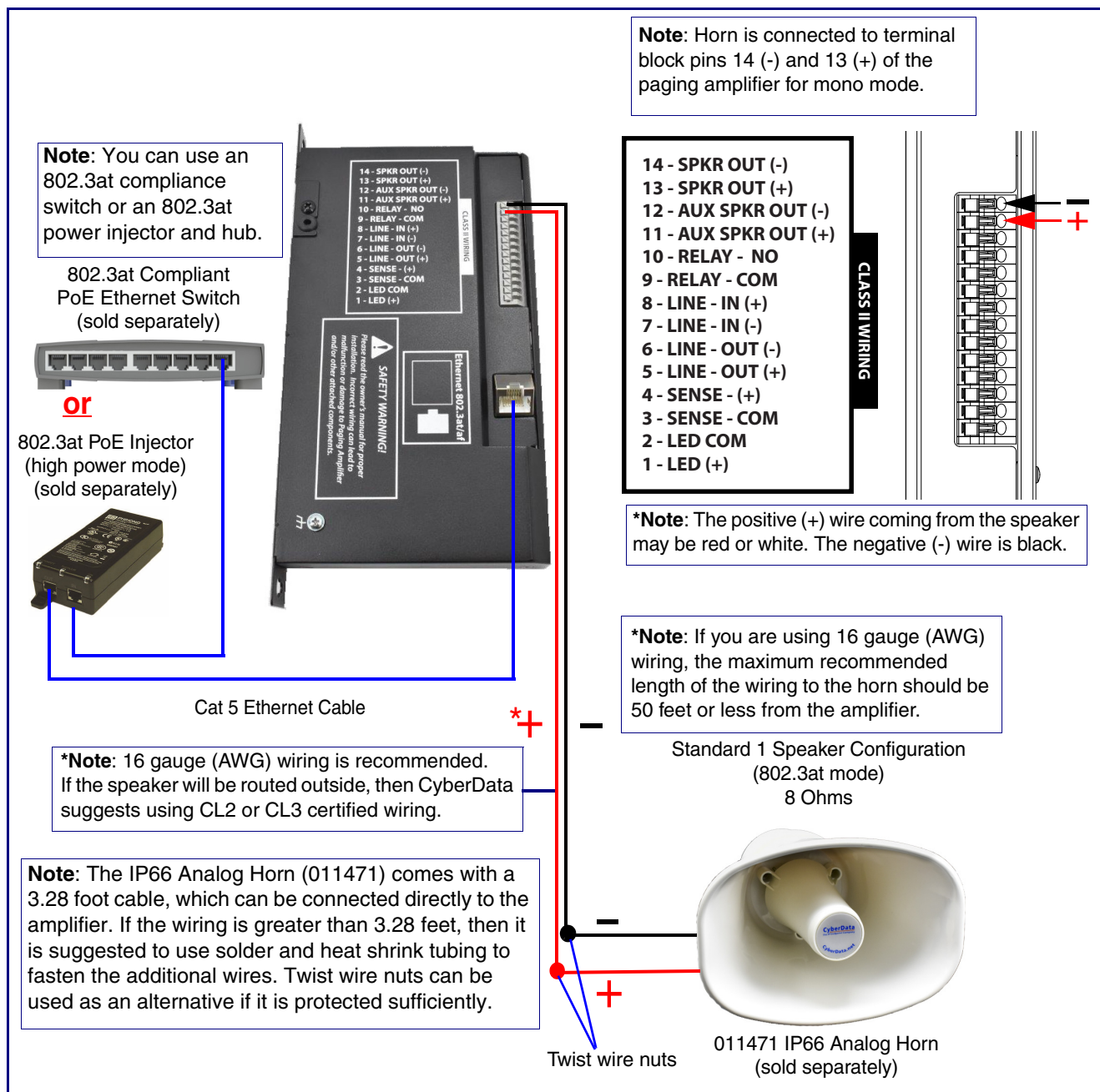
Low Power Mode (One Speaker) The following figure illustrates how to connect the Paging Amplifier and Loudspeaker Amplifier and use the amplified outputs in low power mode to one speaker or horn.

Figure 1-1. Using the Amplified Outputs—Low Power Mode with One Speaker



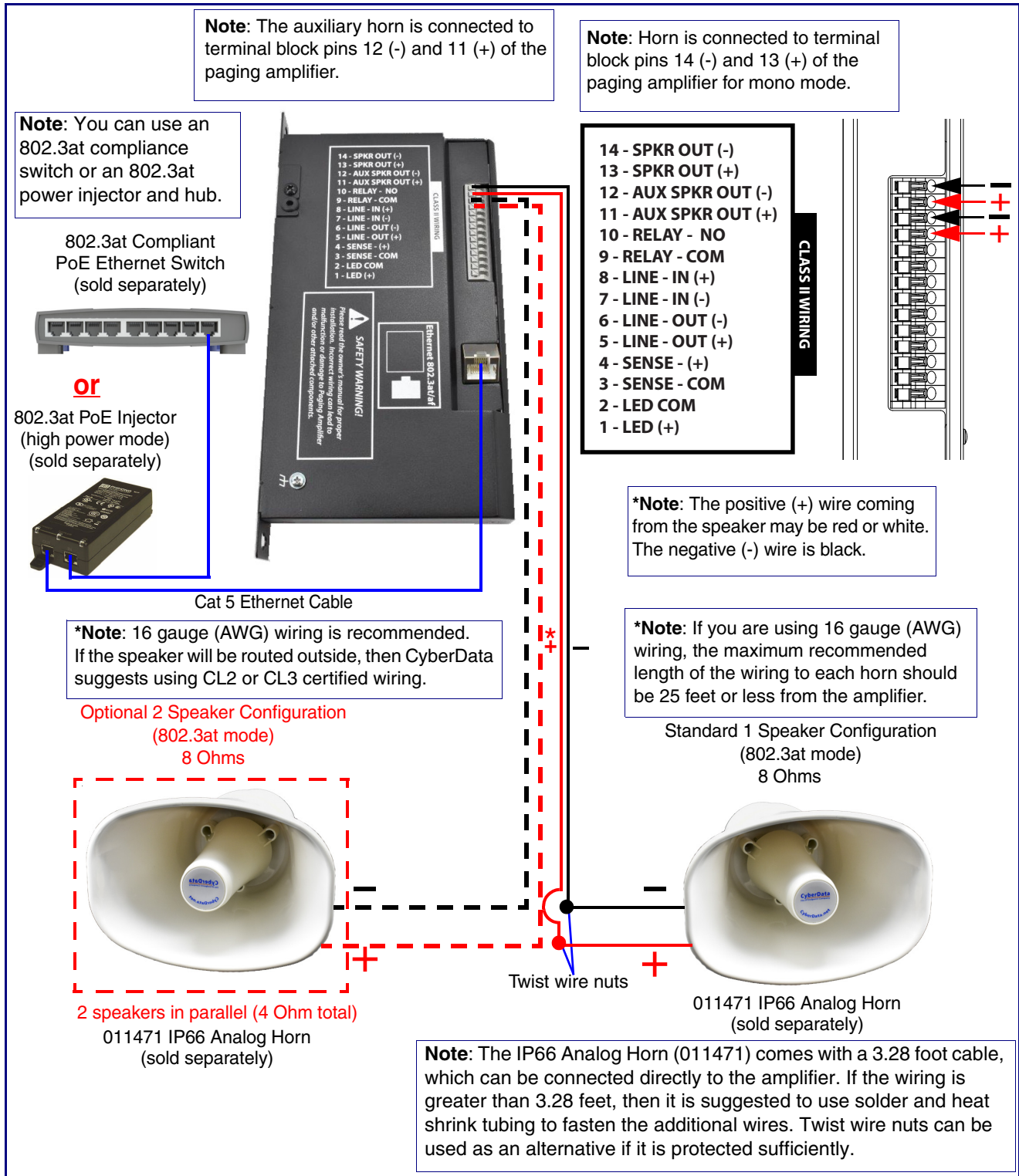
High Power Mode (One Speaker) The following figure illustrates how to connect the Paging Amplifier and Loudspeaker Amplifier and use the amplified outputs in high power mode to one speaker or horn.

Figure 1-2. Using the Amplified Outputs—High Power Mode with One Speaker



High Power Mode (Two Speakers) The following figure illustrates how to connect the Paging Amplifier and Loudspeaker Amplifier and use the amplified outputs in high power mode to two speakers or horns.

Figure 1-3. Using the Amplified Outputs—High Power Mode with Two Speakers



1.1.2 Paging Amplifier and Loudspeaker Amplifier System Installation and Connection Options

The following figures show the connection options for the Paging Amplifier and Loudspeaker Amplifier.

Figure 1-4. Paging Amplifier and Loudspeaker Amplifier Connections

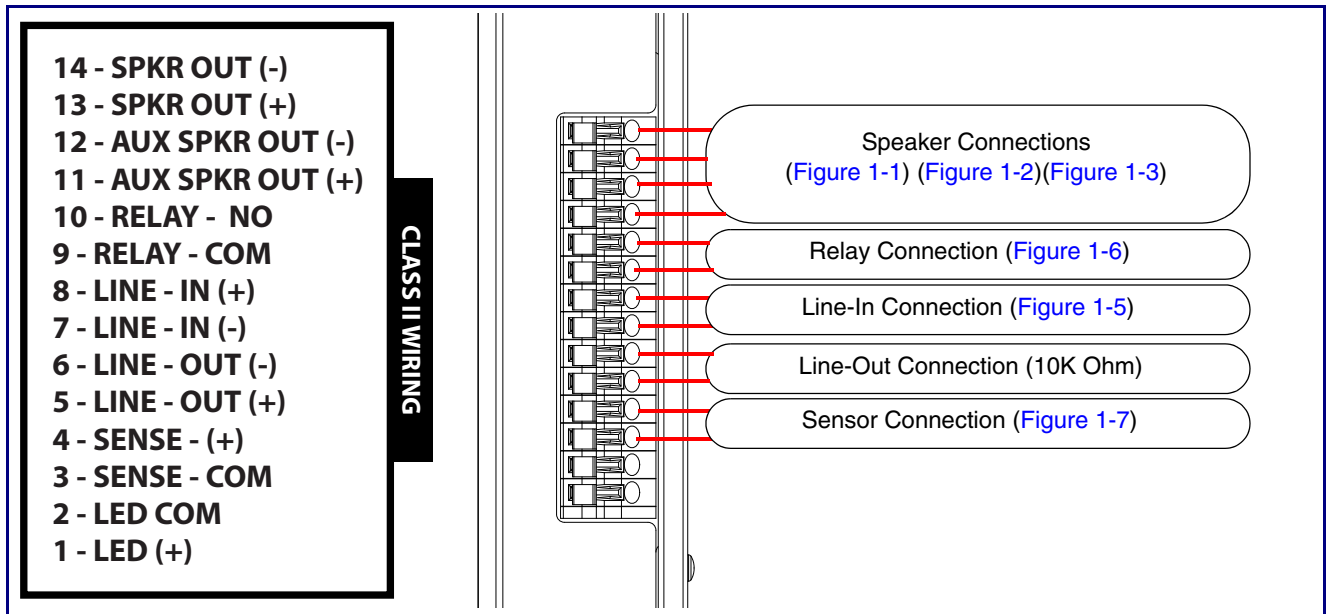


Figure 1-5. Line-In Connection

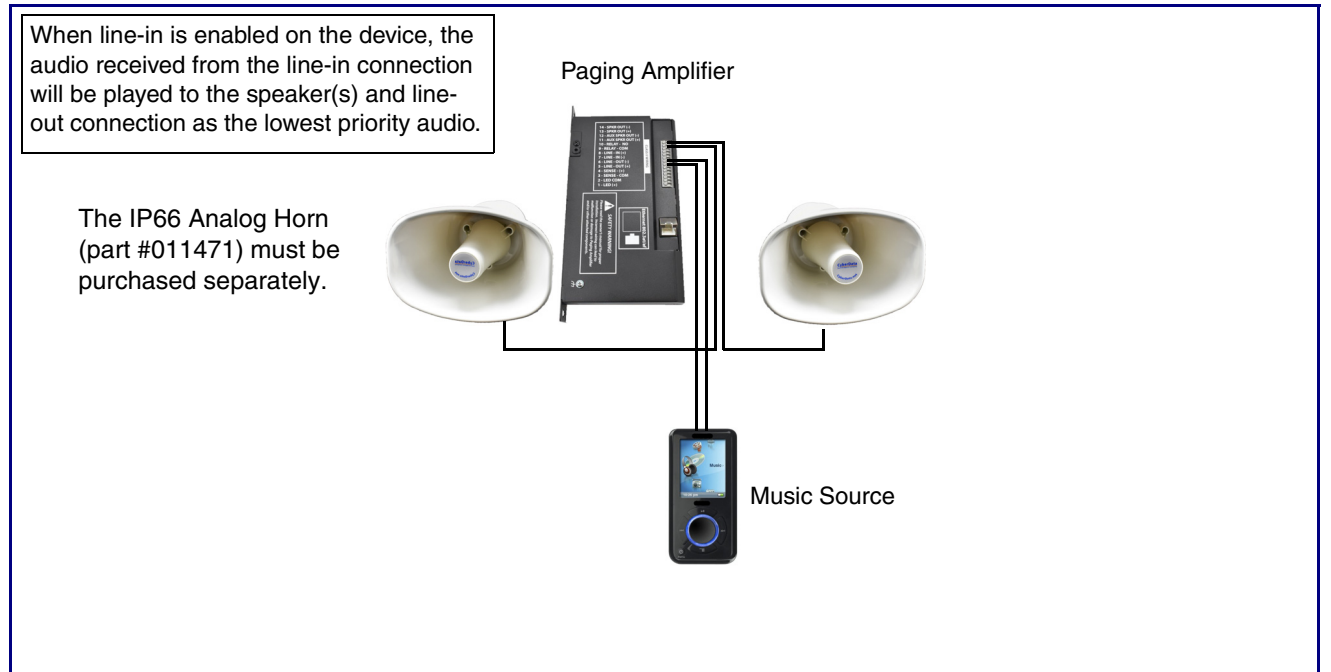


Figure 1-6. Relay or LED Strobe Connection

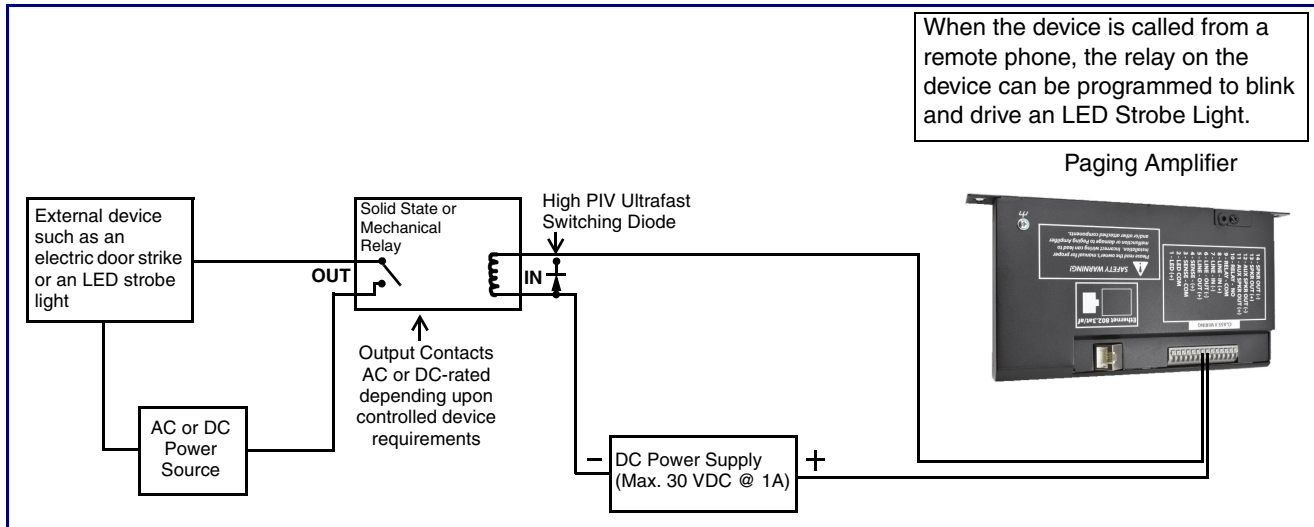
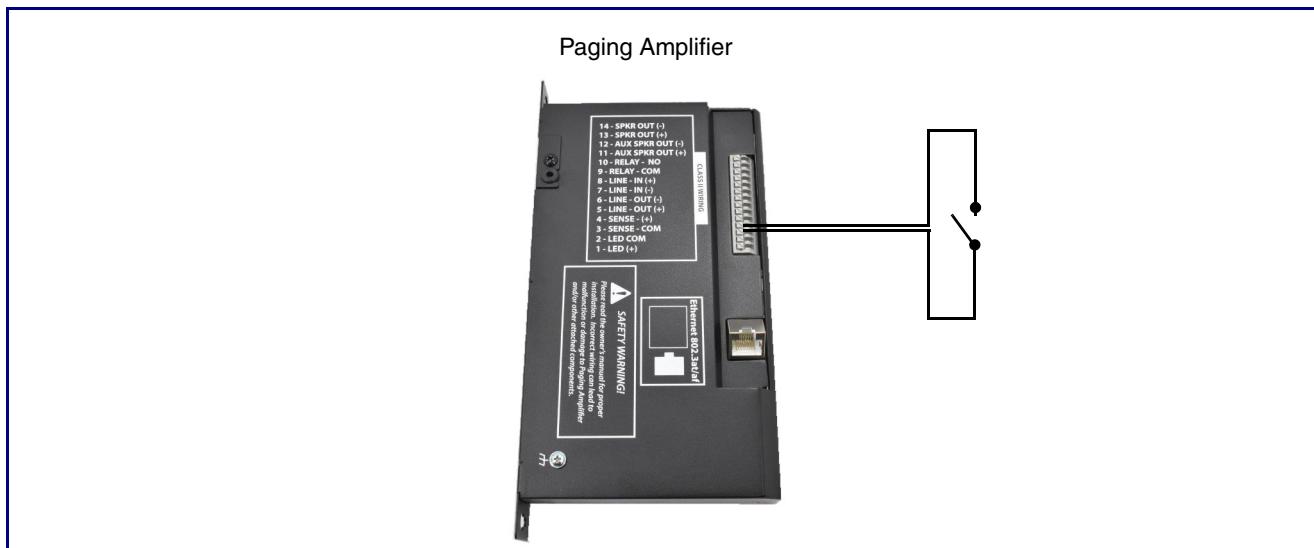


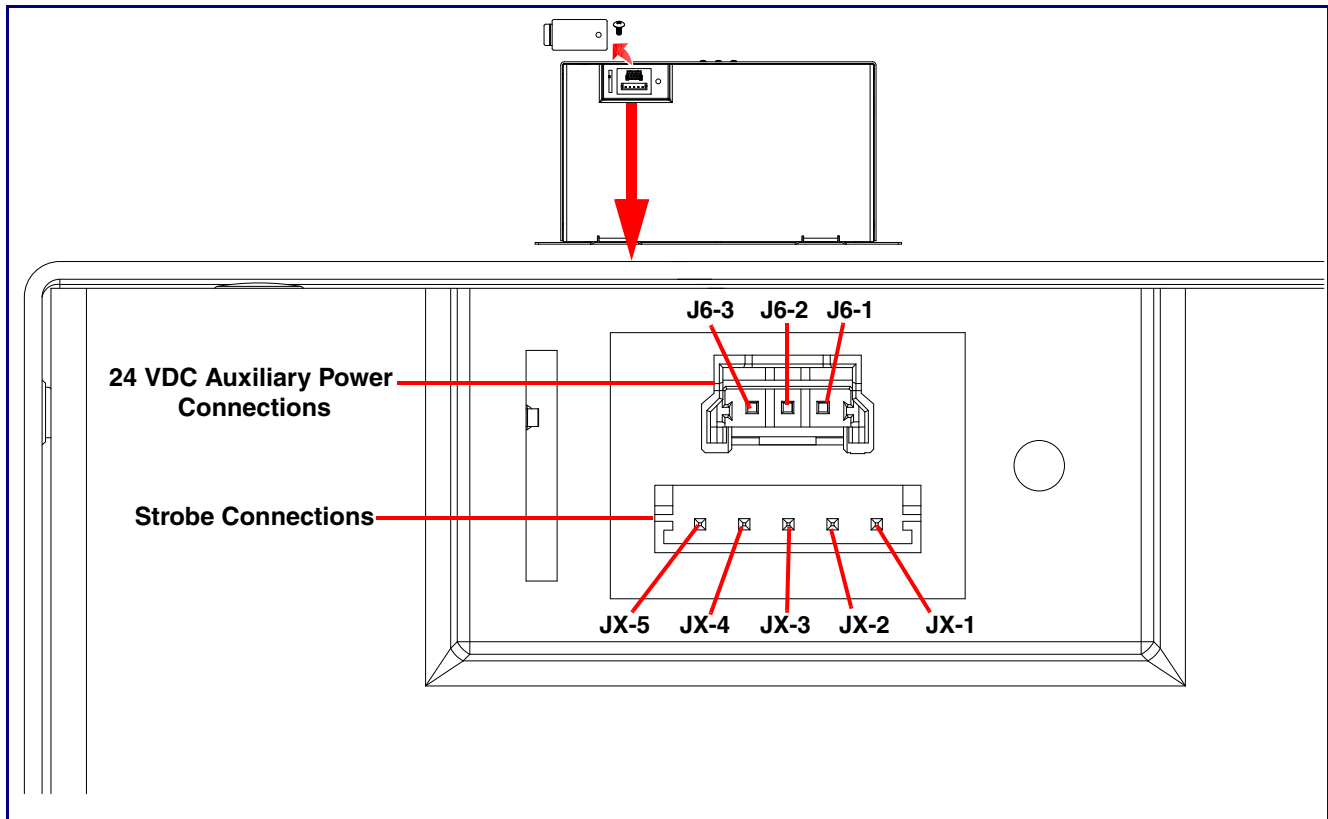
Figure 1-7. Sensor Connection



1.1.3 Strobe Connections Behind the Port Cover

See [Figure 1-8](#) for the additional connection options for the Paging Amplifier and Loudspeaker Amplifier.

Figure 1-8. Connections Behind the Port Cover



See [Table 1-2](#) for the descriptions of the connections behind the port cover.

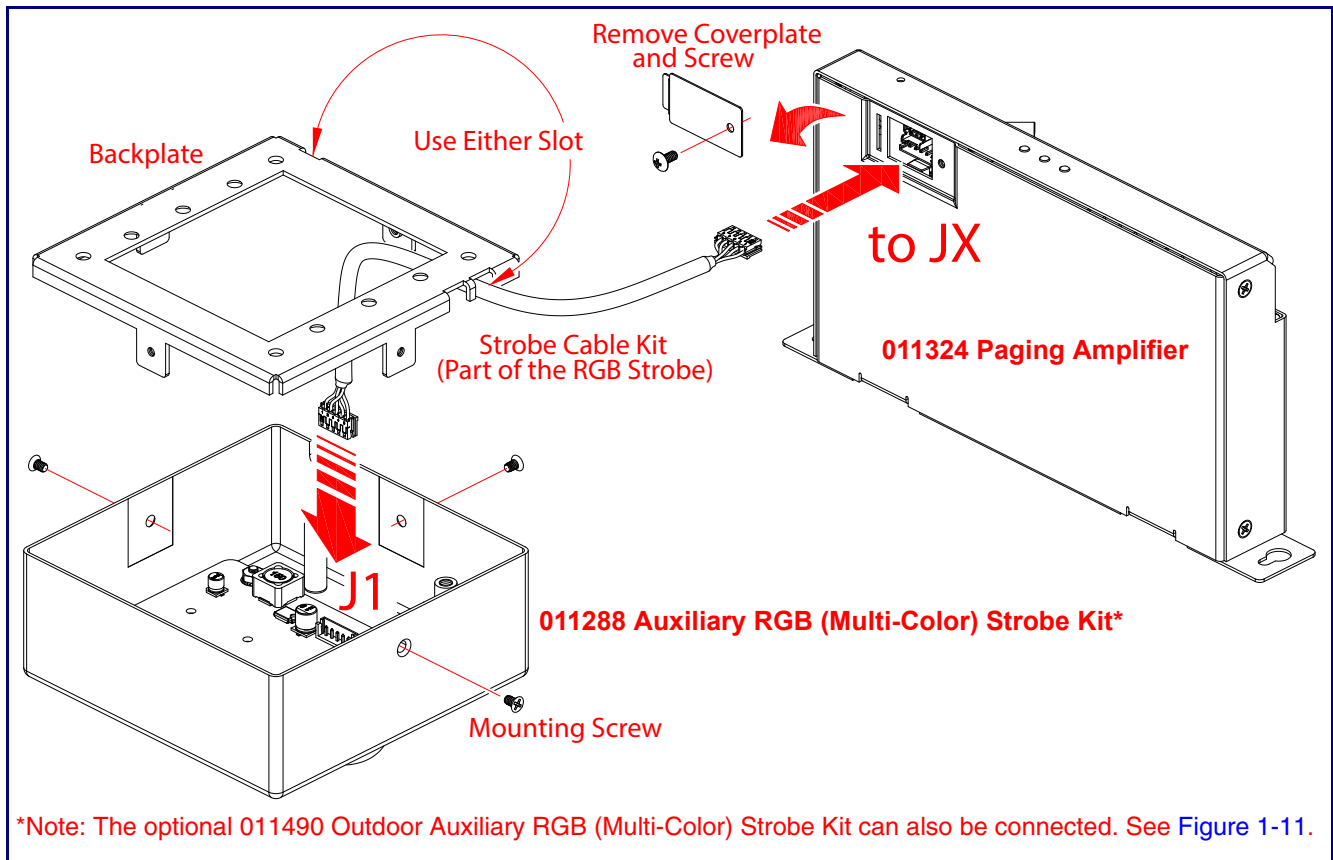
Table 1-2. Connections Behind the Port Cover

Connection	Description
J6-1	+24VDC
J6-2	Ground
J6-3	Chassis Ground
Strobe Connections	
Connection	Description
JX-1	Ground
JX-2	Strobe positive power (+24V)
JX-3	Ground
JX-4	I2C data
JX-5	I2C clock

1.1.4 Connecting the 011288 Auxiliary RGB (Multi-Color) Strobe Kit¹

1. Remove the mounting screw to remove the cover plate. See [Figure 1-9](#).
2. Remove the hole plug and grommet. See [Figure 1-9](#).
3. Slide the cover plate through the slot on the cable grommet. See [Figure 1-9](#).
4. Install the mounting screw to secure the cover plate. See [Figure 1-9](#).

Figure 1-9. Connecting the 011288 Auxiliary RGB (Multi-Color) Strobe Kit



1. The optional 011490 Outdoor Auxiliary RGB (Multi-Color) Strobe Kit can also be connected. See [Figure 1-11](#).

Figure 1-10. Connecting the 011288 Auxiliary RGB (Multi-Color) Strobe Kit

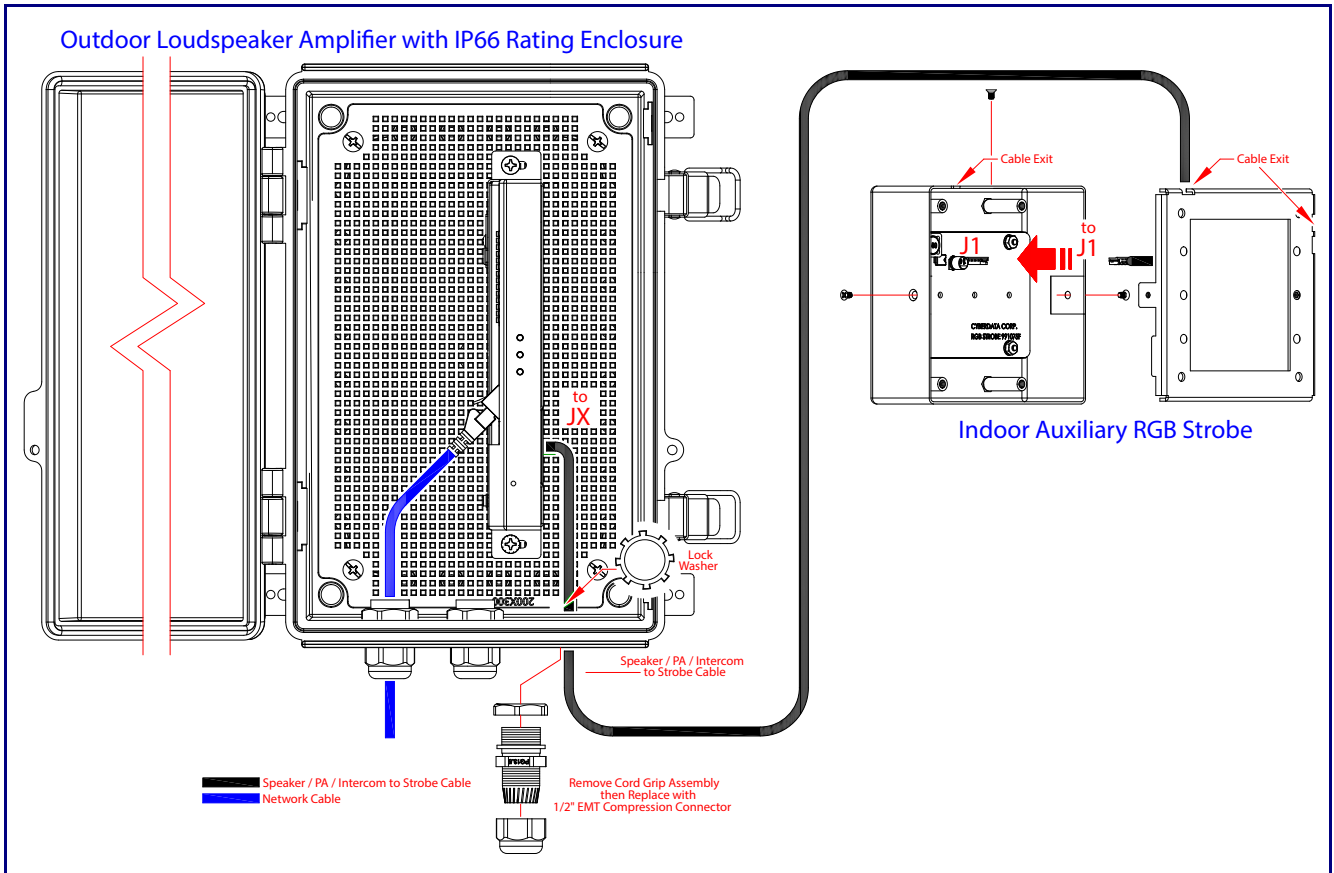
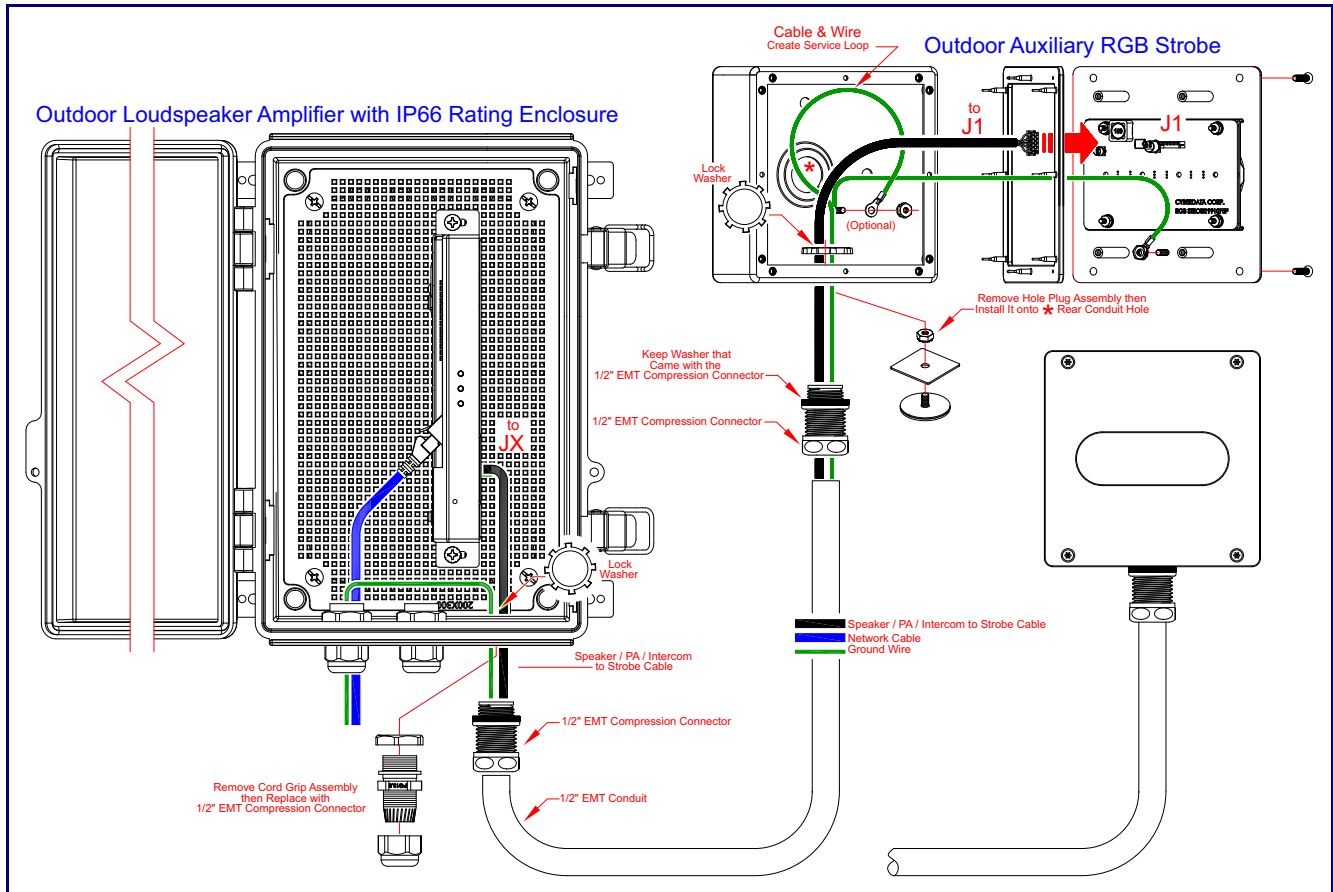


Figure 1-11. Connecting the 011490 Outdoor Auxiliary RGB (Multi-Color) Strobe Kit



1.1.5 Ethernet Connection

See [Table 1-3](#) for details about the Paging Amplifier and Loudspeaker Amplifier connection.

Table 1-3. Paging Amplifier and Loudspeaker Amplifier Connection

Connection	Connection Details	Location
Ethernet	Use a RJ 45 cable.	Paging Amplifier and Loudspeaker Amplifier

1.1.6 Loudspeaker Type

Using the amplified output, the CyberData Paging Amplifier and Loudspeaker Amplifier supports the 011471 IP66 Analog Horn or equivalent unamplified loudspeaker.

Figure 1-12. 011471 IP66 Analog Horn



1.1.7 Cabling/Wiring

Using the amplified output, you may connect a 011471 Horn or equivalent unamplified speaker to a Paging Amplifier and Loudspeaker Amplifier with good quality speaker wire that is 16 gauge and limited to 25 feet in length with two loudspeakers or 50 feet in length with one loudspeaker.

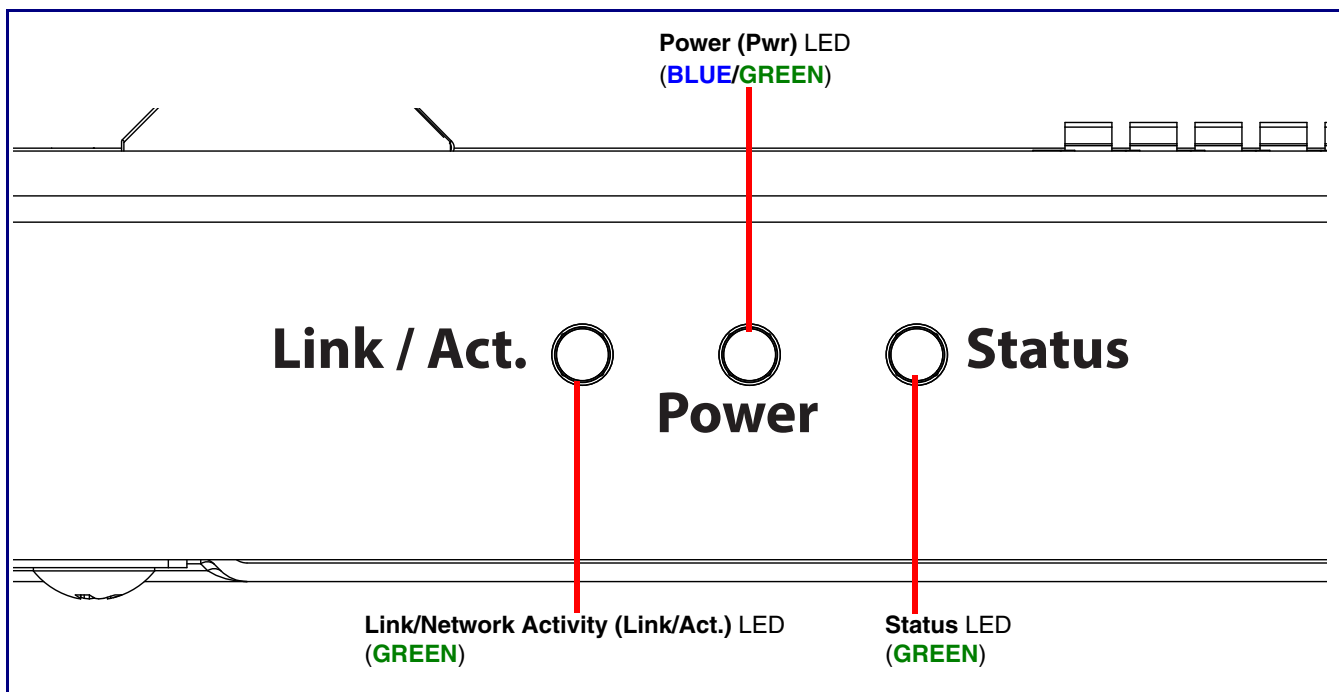
1.1.8 Confirm Operation

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

Table 1-4. Paging Amplifier and Loudspeaker Amplifier LEDs

LED	Color	Function
Power (PWR)	BLUE/GREEN	The power LED is GREEN in low power mode (802.3af) and a BLUE during high power mode (802.3at). The power LED will blink during a boot up or a phone call.
Status	GREEN	After supplying power to the device, a steady GREEN Status LED illuminates. After about 20 seconds the GREEN Status LED will blink twice to indicate that the board is fully booted. The status LED will blink during a page when it is online.
Link/Network Activity (Link/Act.)	GREEN	The Link/Network Activity (Link/Act.) GREEN LED blinks to indicate network traffic.

Figure 1-13. Paging Amplifier and Loudspeaker Amplifier LEDs

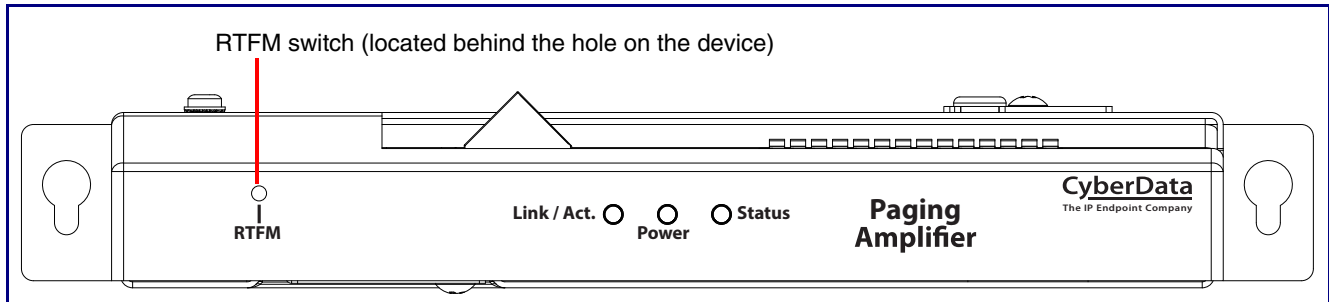


1.1.9 Confirm the IP Address and Test the Audio

1.1.9.1 RTFM Switch

When the Paging Amplifier and Loudspeaker Amplifier is operational and linked to the network, use the Reset Test Function Management (**RTFM**) switch (Figure 1-14) (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.

Figure 1-14. RTFM Switch



Announcing the IP Address To announce a device's current IP address:

- Use a bent paperclip or a similar object to briefly press the RTFM switch and release it.

<p>GENERAL ALERT</p>	<p>Caution</p> <p><i>Equipment Caution:</i> 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.</p>
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Restoring the Factory Default Settings

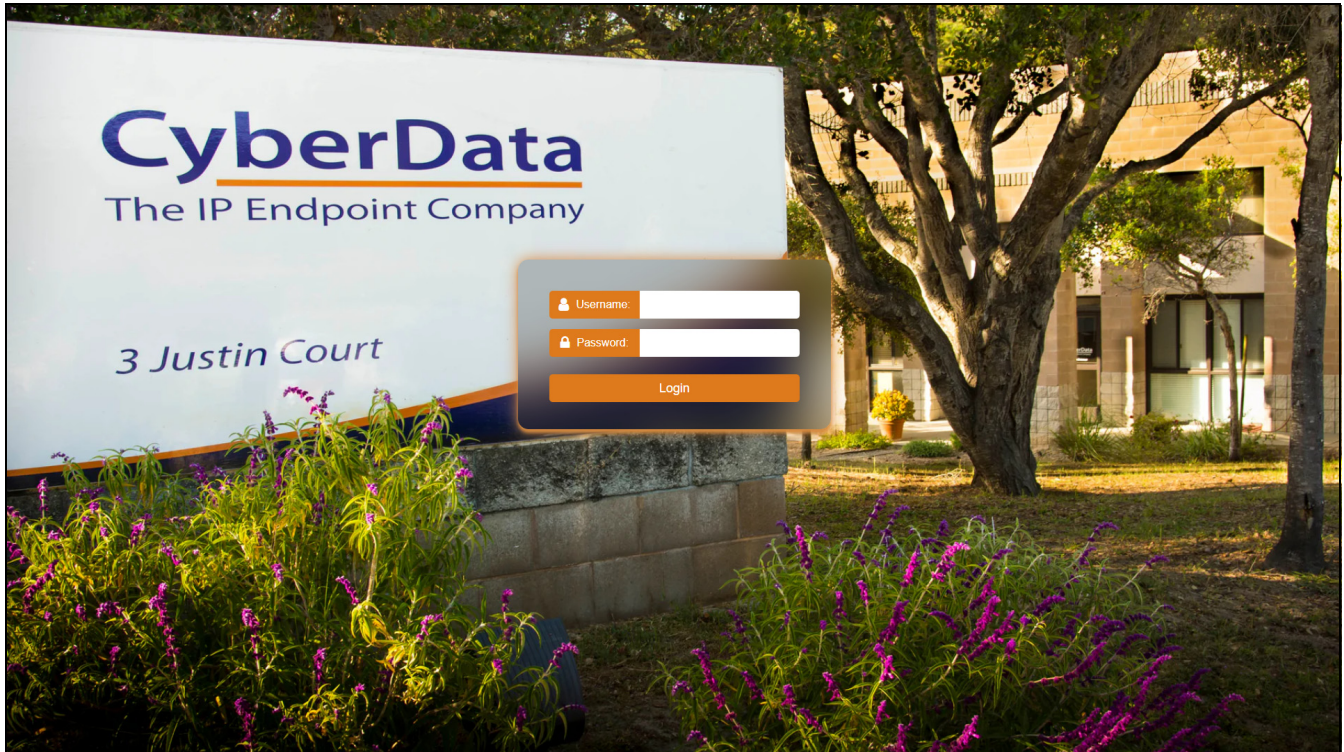
To restore the factory default settings, complete the following steps:

1. Use a bent paperclip or a similar object to press and hold the RTFM switch for several seconds.
2. Release the RTFM switch. The device will be restored to the factory default settings, and, if connected to a speaker, will announce "restoring defaults" and "rebooting."

2 Configure the Device

2.2 Home Page

Figure 2-15. Log In Page



1. Open your browser to the SIP Paging Amplifier 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 SIP Paging Amplifier.

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.

- On the Log In Page (Figure 2-15), use the following default **Web Access Username** and **Web Access Password** to access the **Home Page** (Figure 2-17):

Web Access Username: **admin**

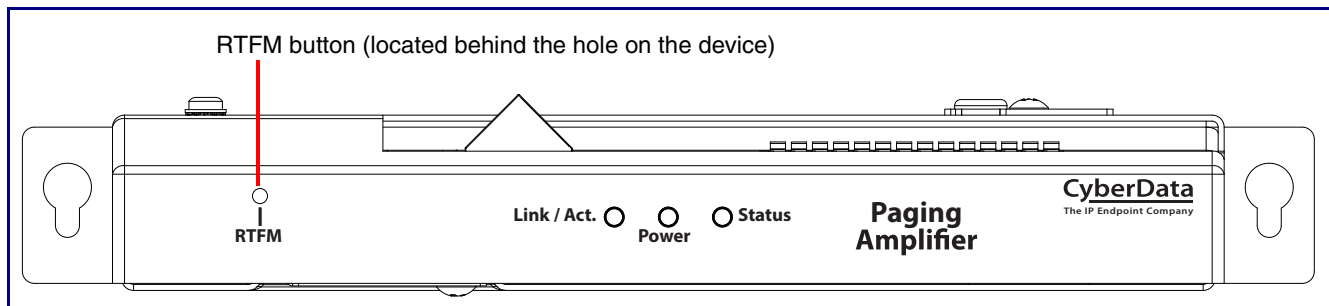
Web Access Password: **admin**

2.2.1 Announcing the IP Address

The RTFM button is located on the front of the each device (Figure 2-16). 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 2-16. RTFM Button



2.2.2 Restoring Factory Defaults

To restore the device to its factory default settings (Table 3-1), 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 2-5. 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.

Figure 2-17. Home Page

The screenshot displays the home page of the CyberData SIP Paging Amp web interface. The header includes the CyberData logo, product name (SIP Paging Amp), firmware version (v22.0.0), serial number (324200221), MAC address (00:20:f7:05:6a:09), available storage (1381MB), and device status (Idle). Action buttons for Test, Save, Cancel, Reboot, and Logout are present. The main content area is divided into six panels: Device Configuration, Network Status, SIP Registration, Audio Configuration, Sensor Status, and System Configuration. A vertical sidebar on the left contains navigation icons.

Device Configuration	
Serial Number	324200221
Mac Address	00:20:f7:05:6a:09
Firmware Version	v22.0.0
Partition 2	v22.0.0
Partition 3	v22.0.0
Booting Partition	partition 3

Network Status	
IP Address Protocol	DHCP
IP Address	10.10.1.103
Subnet Mask	255.0.0.0
Default Gateway	10.0.0.1
DNS Server 1	10.0.1.56
DNS Server 2	

SIP Registration	
SIP Mode:	Enabled
Primary Server:	Not registered
Backup Server 1:	Not registered
Backup Server 2:	Not registered
Nightringer Server:	Not registered

Audio Configuration	
SIP Volume:	4
Multicast Volume:	4
Ring Volume:	4
Sensor Volume:	4
Volume Boost:	None

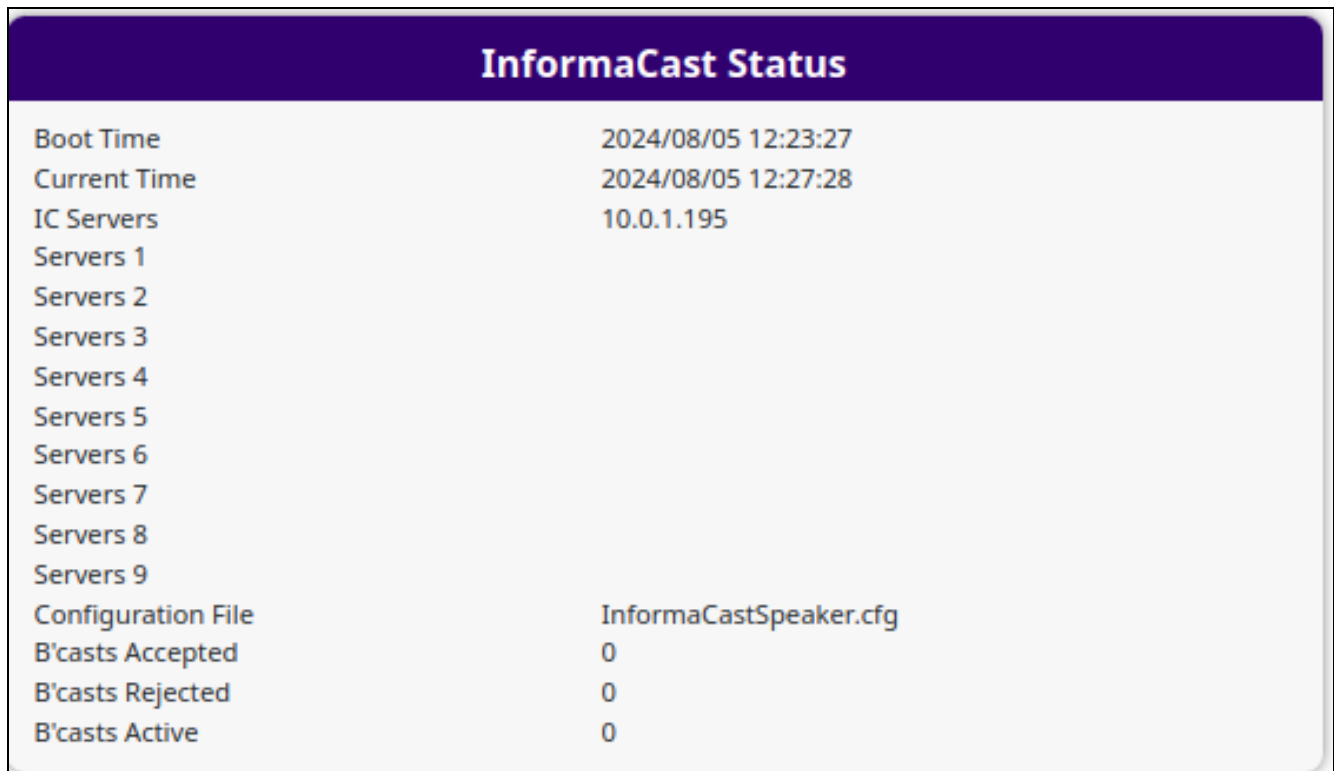
Sensor Status	
Relay Status:	Locked
RGB Strobe:	Not Installed

System Configuration	
SIP Mode:	Enabled
Multicast Mode:	Disabled
Event Mode:	Disabled

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

Figure 2-18. 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

Figure 2-19. Device Page

The screenshot shows the CyberData Device Page configuration interface. At the top, the header includes the CyberData logo, product information (SIP Paging Amp, Firmware v22.0.0), serial number (324200221), MAC address (00:20:f7:05:6a:09), available storage (1381MB), and device status (Idle). Action buttons for Test, Save, Cancel, Reboot, and Logout are visible.

The main content area is divided into several settings 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 Ring (OFF), Relay During Night Ring (OFF), Relay While Call Active (OFF).
- Time Settings:** NTP Server (north-america.pool.ntp.org), NTP Timezone (America/Los_Angeles (-8)), Current Time (Mon, 11 Nov 2024 13:56:43).
- Power Settings:** 802.3AT Mode (Not detected. Disabled), Force 802.3AT Mode (OFF).
- DTMF Settings:** Require Security Code (DISABLED), Security Code (masked).
- Misc Settings:** Device Name (SIP Paging Amp), Beep on Init (OFF), Two Speakers Connected (OFF).

A vertical sidebar on the left contains navigation icons. The footer of the page reads "CyberData • Support".

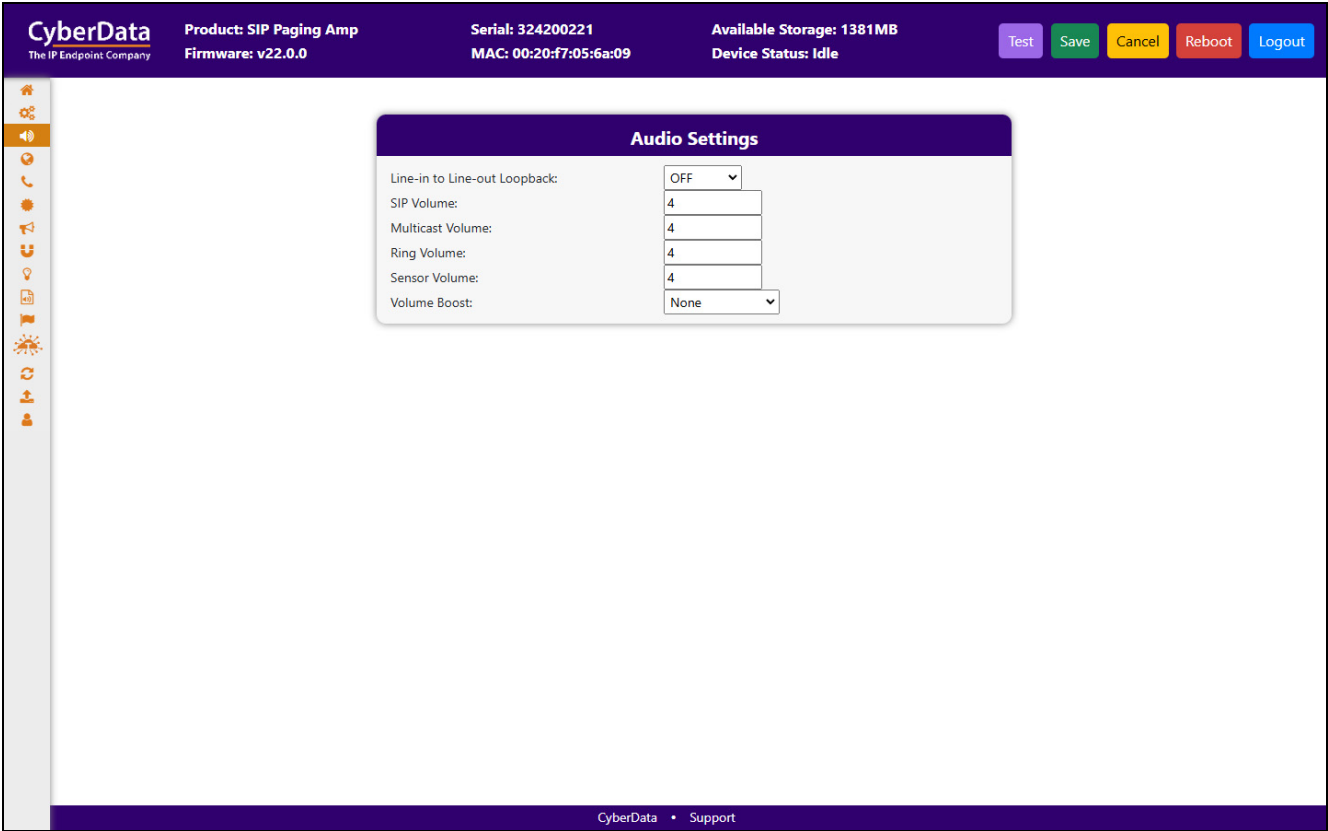
If you are using an InformaCast enabled device, you will see the following:

Figure 2-20. InformaCast enabled Device

The screenshot shows the InformaCast Settings configuration page. The header is dark blue with the text "InformaCast Settings" in white. Below the header, there is a text input field labeled "InformaCast Server:" containing the URL "http://10.0.1.195:8081/InformaCast/resources".

2.4 Audio

Figure 2-21. Audio Page



2.5 Network

Figure 2-22. Network Page

The screenshot displays the Network Configuration page for a CyberData SIP Paging Amp. The interface includes a top navigation bar with device information and control buttons, a left sidebar with navigation icons, and three main configuration panels: Network Status, Network Settings, and VLAN Settings.

Header Information:

- Product: SIP Paging Amp
- Firmware: v22.0.0
- Serial: 324200221
- MAC: 00:20:f7:05:6a:09
- Available Storage: 1381MB
- Device Status: Idle

Control Buttons: Test, Save, Cancel, Reboot, Logout

Network Status:

IP Address Protocol	DHCP
IP Address	10.10.1.103
Subnet Mask	255.0.0.0
Default Gateway	10.0.0.1
DNS Server 1	10.0.1.56
DNS Server 2	

Network Settings:

- Addressing Mode: DHCP
- Hostname: SipDevice056a09
- IP Address: 10.10.10.10
- Subnet Mask: 255.0.0.0
- Default Gateway: 10.0.0.1
- DNS Server 1: 10.0.0.1
- DNS Server 2: 10.0.0.1
- DHCP Timeout: 60 seconds

VLAN Settings:

- VLAN ID: 0
- VLAN Priority: 0

Footer: CyberData • Support

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 2-23. SIP Page

The screenshot shows the CyberData SIP configuration interface. At the top, there's a header with the CyberData logo and device details: Product: SIP Paging Amp, Serial: 324200221, Available Storage: 1381MB, Firmware: v22.0.0, MAC: 00:20:F7:05:6a:09, and Device Status: Idle. There are buttons for Test, Save, Cancel, Reboot, and Logout. The main content is divided into three panels:

- SIP Settings:** Includes SIP Operation (ENABLED), SIP Registration (ENABLED), Buffer SIP Calls (DISABLED), Play Stored Message (DISABLED), Auto-Answer Incoming Calls (ON), Beep Before Paging (OFF), Remote SIP Port (5060), Local SIP Port (5060), SIP Transport Protocol (UDP), TLS Version (1.2), Verify Server Certificate (OFF), Outbound Proxy (Outbound Proxy), Outbound Proxy Port (0), Cisco SRST (OFF), Disable rport Discovery (OFF), Keep Alive Timeout (10000 milliseconds), Terminate call after delay (0 seconds), Audio Codec (Auto Select), RTP Port (even) (10500), Asymmetric RTP (OFF), Jitter Buffer (50), and RTP Encryption (SRTP) (DISABLED).
- SIP Server Settings:** Configures up to three servers. Primary SIP Server: 10.0.0.253, Primary SIP User ID: 199, Primary SIP Auth ID: 199, Primary SIP Auth Password: *****. Backup SIP Server 1: Host or IP address, Backup SIP User ID, Backup SIP Auth ID, Backup SIP Auth Password. Backup SIP Server 2: Host or IP address, Backup SIP User ID, Backup SIP Auth ID, Backup SIP Auth Password. Registration Interval for all is 360 seconds.
- Nightringer Settings:** SIP Server: Host or IP address, SIP User ID: User ID, SIP Auth ID: Auth ID, SIP Auth Password: Password, Registration Interval: 360 seconds.

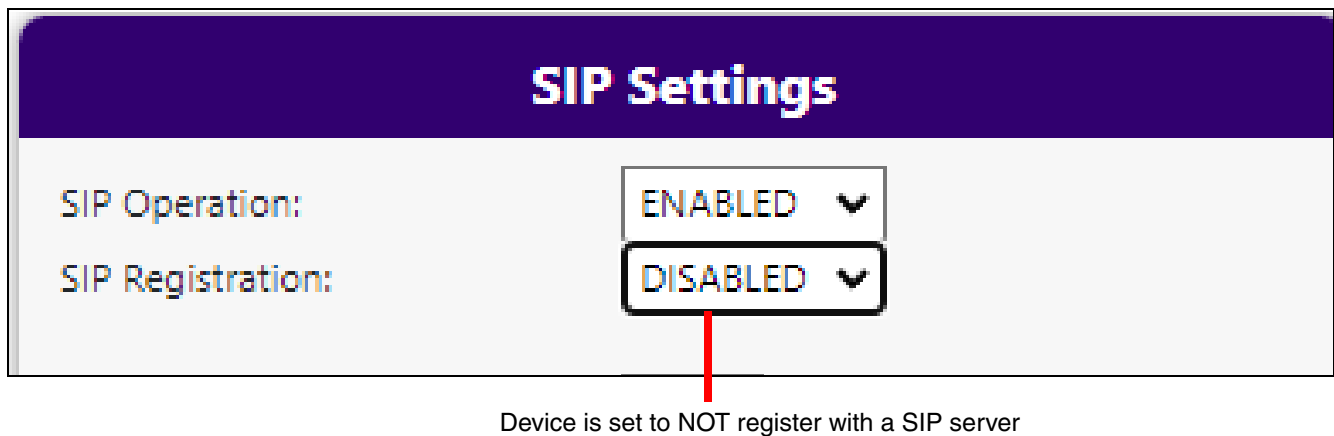
2.6.1 Dial Out Extension Strings and DTMF Tones (using rfc2833)

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 2-24](#).

Figure 2-24. SIP Page Set to Point-to-Point Mode



2.7 SSL

Figure 2-25. SSL Page

CyberData The IP Endpoint Company

Product: SIP Paging Amp
Firmware: v22.0.0

Serial: 324200221
MAC: 00:20:f7:05:6a:09

Available Storage: 1381MB
Device Status: Idle

Test Save Cancel Reboot Logout

Web Server Certificate

```

subject=
countryName      = US
stateOrProvinceName = California
localityName     = Monterey
organizationName = Cyberdata
commonName      = 0020f7056a09
notBefore=May  3 15:35:07 2024 GMT
notAfter=May  1 15:35:07 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      = 0020f7056a09
notBefore=May  3 15:35:07 2024 GMT
notAfter=May  1 15:35:07 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      = 0020f7056a09
notBefore=May  3 15:35:07 2024 GMT
notAfter=May  1 15:35:07 2034 GMT
                    
```

Choose Files No file chosen

Import Autoprovisioning Certificate

Restore Autoprovisioning Certificate

Password (optional):

List of Trusted CAs

Upload CA Certificate: 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

CyberData • Support

Figure 2-26. SSL Page

The screenshot displays the CyberData management interface for an SIP Paging Amp device. The top header includes the CyberData logo, product name (SIP Paging Amp), firmware version (v22.0.0), serial number (324200221), MAC address (00:20:f7:05:6a:09), available storage (1381MB), and device status (Idle). Action buttons for Test, Save, Cancel, Reboot, and Logout are visible in the top right.

The main content area is a table listing 19 certificates. Each row contains a certificate ID, the certificate name, an 'Info' button, and a 'Remove' button. The certificates listed are:

ID	Certificate Name	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
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

The bottom of the page shows the CyberData logo and a 'Support' link.

Figure 2-27. SSL Page

The screenshot shows the CyberData management interface for the SSL page. At the top, there is a header bar with the following information: Product: SIP Paging Amp, Firmware: v22.0.0, Serial: 324200221, MAC: 00:20:f7:05:6a:09, Available Storage: 1381MB, and Device Status: Idle. On the right side of the header, there are buttons for Test, Save, Cancel, Reboot, and Logout. The main content area is a table listing 18 certificates, each with an ID, a name, and two action buttons: Info and Remove.

ID	Certificate Name	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

At the bottom of the page, there is a footer with the text "CyberData • Support".

2.8 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 2-28. Multicast Page

CyberData The IP Endpoint Company
Product: SIP Paging Amp
Serial: 324200221
Available Storage: 1381MB
Firmware: v22.0.0
MAC: 00:20:f7:05:6a:09
Device Status: Idle
 Test Save Cancel Reboot Logout

Multicast Settings

Receive Multicast Audio:

Polycom Default Channel:

Polycom Priority Channel:

Polycom Emergency Channel:

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

CyberData • Support

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 2-29. Sensor Page

The screenshot displays the CyberData web interface for configuring a SIP Paging Amp. The top navigation bar includes the CyberData logo, product information (SIP Paging Amp, Firmware: v22.0.0), device details (Serial: 324200221, MAC: 00:20:f7:05:6a:09), and system status (Available Storage: 1381MB, Device Status: Idle). Action buttons for Test, Save, Cancel, Reboot, and Logout are visible on the right. A vertical sidebar on the left contains various system icons. The main content area features a 'Door Sensor Settings' dialog box with the following configuration options:

Setting	Value
Sensor Type:	Normally Open
Open Timeout:	5 seconds
Activate Relay:	Disabled
Play Audio Locally:	Disabled
Call Extension:	Disabled
Dial Out Extension:	204
Dial Out ID:	id204
Repeat Sensor Message:	5

The footer of the interface shows '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 Intercom.

Figure 2-30. Audiofiles Page

The screenshot displays the 'Audio Files' configuration page in the CyberData web interface. The page header includes the CyberData logo, product information (SIP Paging Amp, v22.0.0), serial and MAC addresses, available storage (1381MB), and device status (Idle). A top navigation bar contains buttons for Test, Save, Cancel, Reboot, and Logout. The main content area is a table with the following structure:

File Name	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
0:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
1:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
2:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
3:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
4:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
5:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
6:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
7:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
8:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
9:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
Audio Test:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
Dot:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
Night Ring:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
Page Tone:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
Rebooting:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
Restoring Default:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
Ring Tone:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
Sensor Triggered:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
Stored Message File Not Found:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
Your IP Address Is:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete

At the bottom of the page, there is a 'Menu Audio Files' section with a link to 'CyberData • Support'.

Figure 2-31. Audiofiles Page

CyberData
The IP Endpoint Company

Product: SIP Paging Amp
Firmware: v22.0.0

Serial: 324200221
MAC: 00:20:f7:05:6a:09

Available Storage: 1381MB
Device Status: Idle

Test Save Cancel Reboot Logout

Cancel:	Currently set to: default	<input type="text" 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="text" 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="text" 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="text" 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="text" 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="text" 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="text" 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="text" 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="text" 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="text" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/>	<input type="button" value="Delete"/>

Stored Messages

Stored Message 1:	Currently set to: default	<input type="text" value="Choose File"/>	No file chosen	Repeat: <input type="text" value="0"/>	Infinite: <input type="button" value="OFF"/>	<input type="button" value="Play"/>	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
Stored Message 2:	Currently set to: default	<input type="text" value="Choose File"/>	No file chosen	Repeat: <input type="text" value="0"/>	Infinite: <input type="button" value="OFF"/>	<input type="button" value="Play"/>	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
Stored Message 3:	Currently set to: default	<input type="text" value="Choose File"/>	No file chosen	Repeat: <input type="text" value="0"/>	Infinite: <input type="button" value="OFF"/>	<input type="button" value="Play"/>	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
Stored Message 4:	Currently set to: default	<input type="text" value="Choose File"/>	No file chosen	Repeat: <input type="text" value="0"/>	Infinite: <input type="button" value="OFF"/>	<input type="button" value="Play"/>	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
Stored Message 5:	Currently set to: default	<input type="text" value="Choose File"/>	No file chosen	Repeat: <input type="text" value="0"/>	Infinite: <input type="button" value="OFF"/>	<input type="button" value="Play"/>	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
Stored Message 6:	Currently set to: default	<input type="text" value="Choose File"/>	No file chosen	Repeat: <input type="text" value="0"/>	Infinite: <input type="button" value="OFF"/>	<input type="button" value="Play"/>	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
Stored Message 7:	Currently set to: default	<input type="text" value="Choose File"/>	No file chosen	Repeat: <input type="text" value="0"/>	Infinite: <input type="button" value="OFF"/>	<input type="button" value="Play"/>	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
Stored Message 8:	Currently set to: default	<input type="text" value="Choose File"/>	No file chosen	Repeat: <input type="text" value="0"/>	Infinite: <input type="button" value="OFF"/>	<input type="button" value="Play"/>	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
Stored Message 9:	Currently set to: default	<input type="text" value="Choose File"/>	No file chosen	Repeat: <input type="text" value="0"/>	Infinite: <input type="button" value="OFF"/>	<input type="button" value="Play"/>	<input type="button" value="Save"/>	<input type="button" value="Delete"/>

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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 board.

Figure 2-32. Events Page

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

Figure 2-33. InformaCast enabled Device

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>POWERON</event>
</cyberdata>
```

```
POST xmlparse_engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 199
Content-Type: application/x-www-form-urlencoded
```

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

```
POST xmlparse_engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 196
Content-Type: application/x-www-form-urlencoded
```

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

```
POST xmlparse_engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 201
Content-Type: application/x-www-form-urlencoded
```

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

```
POST xmlparse_engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 205
Content-Type: application/x-www-form-urlencoded

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

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

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

POST xmlparse_engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 234
Content-Type: application/x-www-form-urlencoded

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

Figure 2-34. Terminus Page

The screenshot displays the Terminus configuration interface. At the top, a purple header bar contains the CyberData logo and the following information: Product: SIP Paging Amp, Firmware: v22.0.0, Serial: 324200221, MAC: 00:20:f7:05:6a:09, Available Storage: 1381MB, and Device Status: Idle. To the right of this information are five buttons: Test (purple), Save (green), Cancel (yellow), Reboot (red), and Logout (blue). A vertical sidebar on the left contains several orange icons. The main content area features two configuration panels. The first panel, titled 'Discovery Setting', includes three input fields: Multicast Address (239.27.32.4), Time to Live (255), and Discovery Interval (60 seconds). The second panel, titled 'Lockdown Settings', includes a dropdown menu for Lock Down Mode (set to Disabled) and a dropdown menu for Relay (set to No Action). At the bottom of the page, a purple footer bar contains the text 'CyberData • Support'.

Discovery Setting	
Multicast Address:	<input type="text" value="239.27.32.4"/>
Time to Live:	<input type="text" value="255"/>
Discovery Interval:	<input type="text" value="60"/> seconds

Lockdown Settings	
Lock Down Mode:	Disabled
Relay:	<input type="text" value="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 2-35. Autoprovisioning Page

The screenshot displays the Autoprovisioning configuration interface. At the top, the header includes the CyberData logo and system information: Product: SIP Paging Amp, Serial: 324200221, Available Storage: 1381MB, Firmware: v22.0.0, MAC: 00:20:f7:05:6a:09, and Device Status: Idle. Action buttons for Test, Save, Cancel, Reboot, and Logout are visible. The main interface is divided into two sections: 'Autoprov Settings' and 'Autoprov Log'. The 'Autoprov Settings' section contains several configuration fields: 'Autoprov' is set to 'ENABLED'; 'Autoprov Server' and 'Autoprov Filename' are empty text boxes; 'Use tftp' is set to 'DISABLED'; 'Verify Server Certificate' is set to 'DISABLED'; 'Username' and 'Password' are empty text boxes; 'Autoprov autoupdate' is set to '0' minutes; 'Autoprov at time' is set to 'HHMM'; and 'Autoprov when idle' is set to '0' minutes. A 'Download Template' button is located at the bottom of this section. The 'Autoprov Log' section displays a list of log entries, including: '2024-11-11 14:11:22 Autoprov: no autoprov triggers. Exiting...', '2024-11-11 14:11:24 Autoprov found server= 'http://10.0.0.242' in dhcp option 43', '2024-11-11 14:11:24 Autoprov looking for 0020f7056a09.xml at http://10.0.0.242', '2024-11-11 14:11:24 Autoprov downloading http://10.0.0.242/0020f7056a09.xml', '2024-11-11 14:11:24 Got autoprov file. Parsing "0020f7056a09.xml"', '2024-11-11 14:11:25 Autoprov: SSLCertificates config not found', '2024-11-11 14:11:25 Autoprov: AudioFiles config not found', '2024-11-11 14:11:25 Autoprov: FirmwareSettings config not found', '2024-11-11 14:11:25 DeviceConfig: error = False', '2024-11-11 14:11:25 SSLCertificates: error = None', '2024-11-11 14:11:25 AudioFiles: error = None', '2024-11-11 14:11:25 BellSchedule: error = False', '2024-11-11 14:11:25 FirmwareSettings: error = None', and '2024-11-11 14:11:25 StoredCalendars: error = None'. The footer of the page shows 'CyberData • Support'.

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>

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

- Firmware file
- Release notes
- Autoprovisioning template


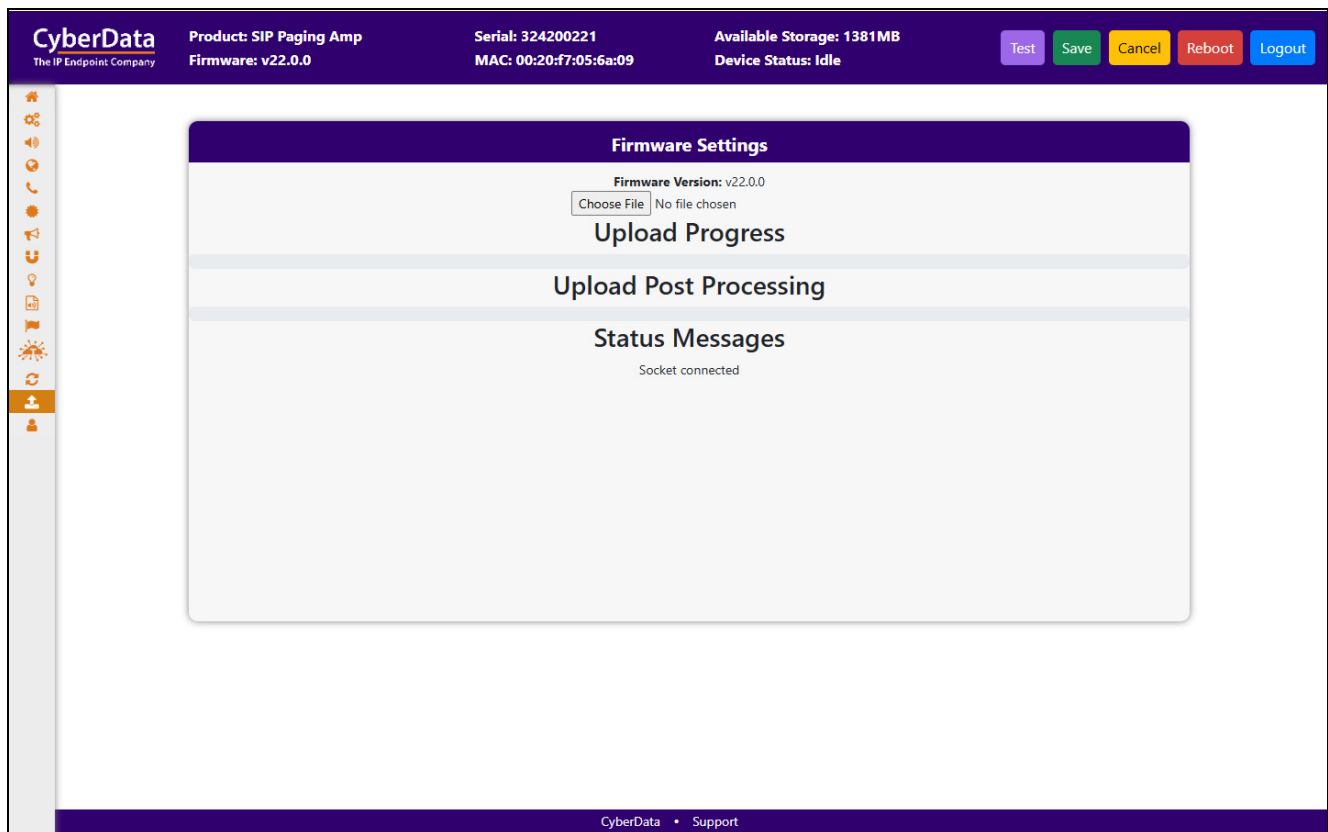
 GENERAL ALERT	<p>Caution</p> <p>Equipment Hazard: Do not reboot the device. It will reboot automatically when the process is complete.</p>
--	--

Figure 2-36. Firmware Page



2.15 Admin

Figure 2-37. Admin Page

The screenshot displays the CyberData Admin Page for a SIP Paging Amp device. The top header includes the CyberData logo, product information (SIP Paging Amp, Firmware: v22.0.0), serial number (324200221), MAC address (00:20:f7:05:6a:09), available storage (1381MB), and device status (Idle). Action buttons for Test, Save, Cancel, Reboot, and Logout are present.

The main content area is divided into several sections:

- Admin Settings:** Fields for Username (admin), Password, and Confirm Password.
- Logging Settings:** Debug Level (4), Log Network Traffic (OFF), and buttons for Get Application Log, Remove Application Log, Get Network Log, Remove Network Log, Get All Logs, and Remove All Logs.
- Configuration Settings:** Partition information (Partition 2, 3, and Booting Partition) and buttons for Restore Default Config, Restore Default Certificates, Import Config, Export Config, and Boot From Other Partition.
- Statistics:** Storage (1381MB), Boot Count (21), Reboot Count (15), and Uptime (up 9 minutes).
- Users List:** Buttons for Add New User, Delete All Users, Import Users, and Export Users. Below is a table with columns: Username, Home, Device, Audio, Network, SIP, SSL, Multicast, Sensor, Strobe, Audiofiles, Events, Terminus, Autoprovisioning, Firmware, and Admin.
- Log Viewer:** Service (Application), Entries to get (250), Sort (Oldest), and a View Log button.

The footer contains the CyberData logo and a Support link.

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

2.16 Command Interface

Some functions on the device can be activated using simple POST commands to the web interface. The examples in [Table 2-6](#) use the free unix utility, **wget**, but 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 2-6. Command Interface Post Commands

Device Action	HTTP Post Command ^a
Reboot	<code>wget --user admin --password admin --auth-no-challenge --quiet -O /dev/null --no-check-certificate "https://10.10.1.247/command" --post-data "request=reboot"</code>
Place call to extension (example: extension 600)	<code>wget --user admin --password admin --auth-no-challenge --quiet -O /dev/null --no-check-certificate "https://10.10.1.247/command" --post-data "request=call&extension=600"</code>
Terminate a calli	<code>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"</code>
Speak IP Address	<code>wget --user admin --password admin --auth-no-challenge --quiet -O /dev/null --no-check-certificate "https://10.10.1.247/command" --post-data "request=speak_ip_address"</code>
Test Audio	<code>wget --user admin --password admin --auth-no-challenge --quiet -O /dev/null --no-check-certificate "https://10.10.1.247/command" --post-data "request=test_audio"</code>
Swap Boot partitions	<code>wget --user admin --password admin --auth-no-challenge --no-check-certificate --quiet -O /dev/null "https://10.10.1.81/command" --post-data "request=swap_boot_partition"</code>

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/>

Index

Numerics

1 speaker configuration 10, 11, 12
 2 speaker configuration 12
 802.3af mode 10, 11, 12
 802.3at compliance switch 10, 11, 12
 802.3at mode 12
 802.3at power injector (high power mode) 10, 11, 12

A

activity LED 20
 address, configuration login 22
 admin page 45
 amplified outputs 10, 11, 12
 high power mode 12
 how to use and connect 10
 low power mode 10, 11
 announcing an IP address 21
 audio page 27
 audio test 21
 audiofiles page 36
 autoprovisioning page 43

C

cabling 19
 command interface 46
 commands 46
 configuration
 device 22
 configuration home page 23
 connecting the amplified outputs 10
 connection options 13
 connections 13
 contact information 47
 contact information for CyberData 47
 CyberData contact information 47

D

default
 web login username and password 23
 default login address 22
 device configuration 22
 device configuration page 26

device page 26
 dial out extension strings 29
 discovery utility program 22
 door sensor 35
 DTMF tones (using rfc2833) 29

E

events page 38

F

factory defaults 21
 firmware page 44

H

hazard levels 3
 high power mode (amplified outputs) 12
 home page 23
 http POST command 46

I

intrusion sensor 35
 IP address announcement 21
 IP address confirmation 21

L

LEDs 20
 log in address 22
 loudspeaker type 19
 loudspeaker, cabling/wiring 19
 low power mode (amplified outputs) 10, 11

M

multicast page 34

N

network link activity, verifying 20
network page 28

O

one speaker configuration 10, 11, 12
optional two speaker configuration 12

P

password
 login 23
point-to-point configuration 30
POST command 46
power LED 20
power, connecting to paging amplifier 10

R

reset test function management switch 21
restoring the factory defaults 21
RTFM switch 21

S

safety instructions 4
sales 47
sensor connection 14
sensor page 35
service 47
SIP page 29
speaker cable 19
speaker configuration 10, 11, 12
speaker configuration for two speakers 12
speaker wire 19
SSL page 31
standard 1 speaker configuration 10, 11, 12
status LED 20

T

tech support 47
technical support, contact information 47
terminus page 42

test audio 21
two speaker configuration 12

U

username
 default for web configuration access 23
using the amplified outputs 10

V

verifying
 network link and activity 20
 power on 20

W

warranty policy at CyberData 47
web configuration log in address 22
wget, free unix utility 46
wiring 19