



Paging 25V/70V +4 Amplifier Operations Guide

SIP Compliant
Part #011598, 011599

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for Firmware Version 23.0

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Technical Support

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

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

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

Fax: (831) 373-4193

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




Revision Information

Revision 932073A, which corresponds to firmware version 23.0.0, was released on December 17, 2025.



Important Safety Instructions

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

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

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

Pictorial Alert Icons

 <p>GENERAL ALERT</p>	General Alert This pictorial alert indicates a potentially hazardous situation. This alert will be followed by a hazard level heading and more specific information about the hazard.
	Ground This pictorial alert indicates the Earth grounding connection point.

Hazard Levels

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

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

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

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

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

Abbreviations and Terms

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

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Chapter 1. Product Overview

1.1 General Wire Recommendation for 25V or 70V Speakers

For the majority of installations we recommend the following specifications for the speaker wiring.

16/2 (16AWG/2 Conductor) Gray Stranded In-Wall CL3R Speaker Wire ([Figure 1](#))

- Use with speaker systems in an indoor audio system
- Class 3, riser rated for in-wall installation in riser and non-riser spaces
- PVC insulating jacket
- 2 fully annealed class B stranded bare copper conductors
- 16-Gauge
- UL Type CL3R
- Plenum rated

There are many brands that will work, but we have personally tested the Southwire company. The description below are the details on this wire in a 500 foot length.

P50002 SY 16/2 STR CU OAS CMP/CL3P CMP/CL3P/FPLP FT6 PLENUM SHIELDED STRANDED 185 25.07

Note Different gauge wiring can be used from our standard 16/2 recommendation if specific distances or power levels are trying to be maintained. Feel free to consult with our Design Services Group for additional assistance.

Figure 1. 16/2 (16AWG/2 Conductor) Gray Stranded In-Wall CL3R Speaker Wire

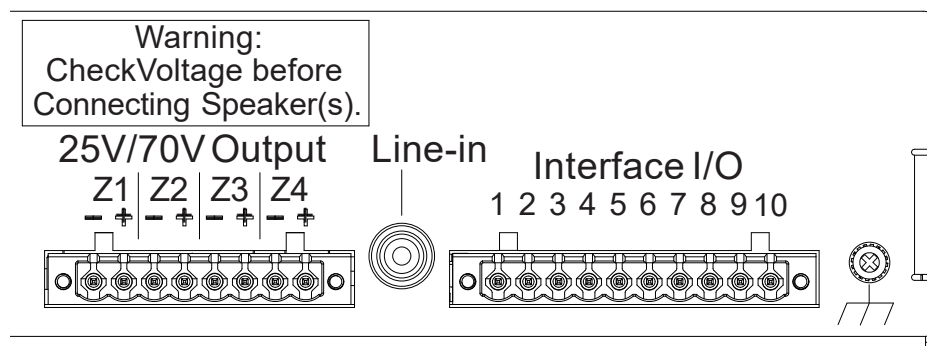


1.2 Connecting the Paging 25V/70V Amplifier

Before you connect the Paging 25V/70V Amplifier be sure that you have received all of the parts of the device on the Quick Reference Placemat which comes with the product.

See [Figure 2](#) for the connection options that are available for the Paging 25V/70V Amplifier.

Figure 2. Connection Options



25V/70V Output

There are eight connections to hook analog speakers up to the amp. The connections accept up to a 12 AWG wire.

Line in

Line level input is for background music applications. The expected input level is 2Vpp (2 volts peak to peak voltage).

Interface I/O

- | | |
|-----|-------------------------------|
| 1 | Fault Sense Input (Common) |
| 2 | Fault Sense Input (Sense) |
| 3-4 | Reserved |
| 5 | Ground Reference |
| 6 | Relay Contact - Common |
| 7 | Relay Contact - Normally Open |
| 8 | Line Level Output (+) |
| 9 | Line Level Output (-) |
| 10 | Reserved |

1.2.1 Ground Connection

This connection allows you to connect the device to an electrical ground.

1.2.2 Line In

This RCA 10K Ohm Hi-Z input connection allows you to connect an external music player to the internal amplifier.

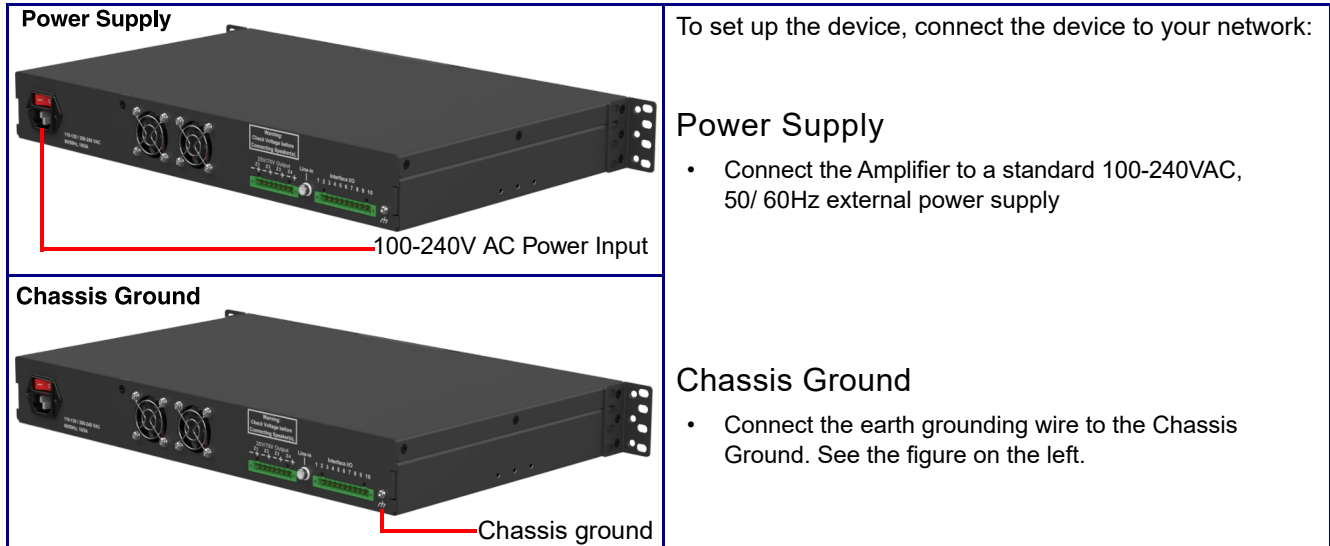


ESD Sensitivity: This equipment may be sensitive to ESD (electro-static discharge). It may cause the system to become unresponsive in some higher than normal ESD environments. As a precaution, during installation, it is best to make all external connections to the unit before powering on.

1.3 Connect to the Power Source

To supply power, connect the Paging 25V/70V Amplifier to a standard 100-240VAC 50/60Hz power supply. If required, connect the earth grounding wire to the chassis ground on the back of the unit. See [Figure 3](#).

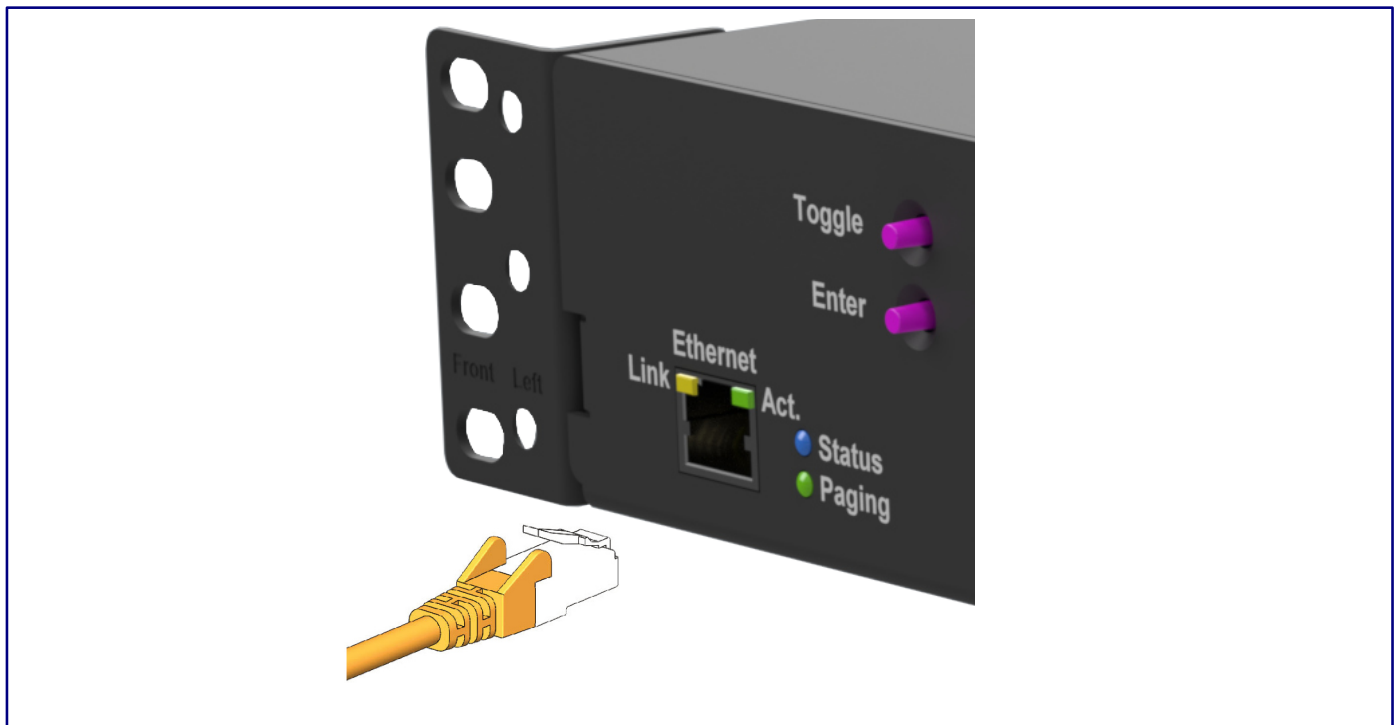
Figure 3. Connecting to the Power Source



1.4 Connect to the Network

Plug one end of a standard Ethernet cable into the device Ethernet port. Plug the other end into your network.

Figure 4. Connecting to the Network



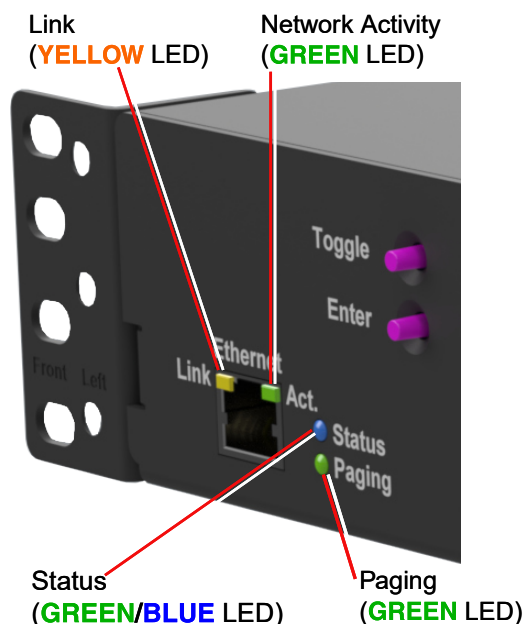
1.5 Confirm that the Device is Up and Running

The LEDs on the front of the Paging 25V/70V Amplifier verify the unit's operations.

Figure 5. LEDs

When you apply power, turn ON the Power switch and connect the Ethernet to a live network:

- The square, **YELLOW** Link LED above the **Ethernet** port indicates that the network connection has been established at 100Mbit speed.
- The square, **GREEN** Network Activity LED above the Ethernet port will blink to indicate network activity.
- The round **GREEN/BLUE** Status LED is **BLUE**, indicating power is **ON**. Once the device is initialized, the LED will blink **GREEN** at one second intervals.
- The round **GREEN** Paging LED comes on after the device is booted and initialized. This LED blinks when a page is in progress. You can disable **Beep on Initialization** on the **Device Configuration** page.



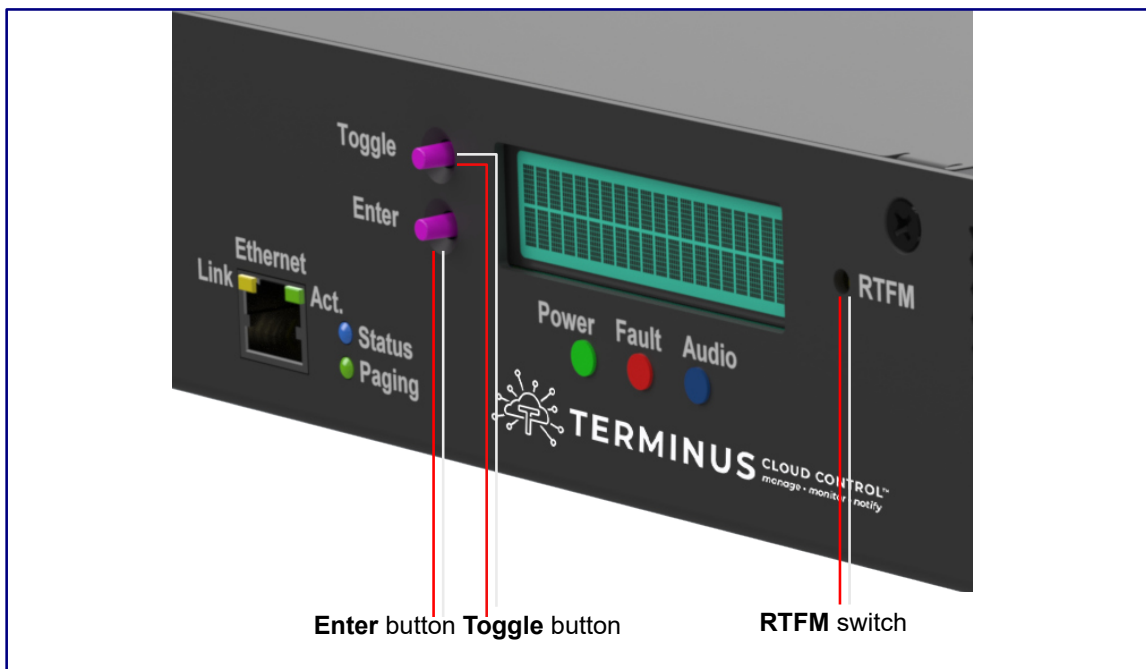
1.5.1 Verify Network Activity

The square, **GREEN** Network Activity LED blinks when there is network traffic.

1.6 LCD Display Explanation

The LCD Display can be interacted with via the Toggle and Enter buttons on the front panel of the device. See [Figure 6](#).

Figure 6. LCD Display



The Toggle button is used to switch between menu pages and on specific pages to toggle between options.

The Enter button is used on specific pages to confirm a setting.

LCD Display menu pages:

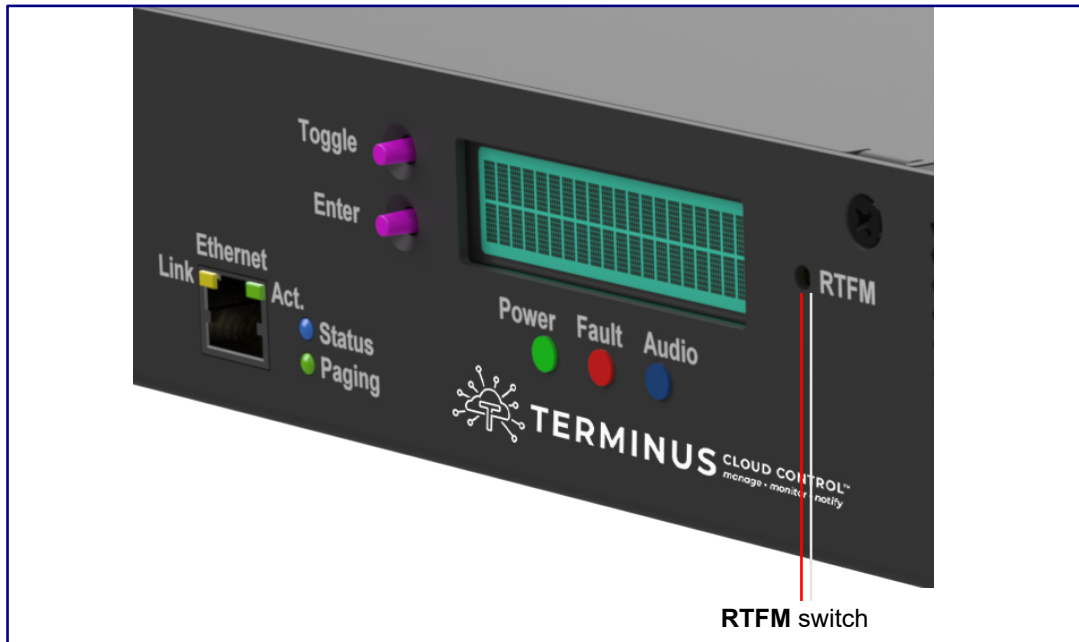
- Screen 1: CyberData Splash Screen
- Screen 2: Serial Number and Mode (25v or 70v)
- Screen 3: Temperature (Celsius /Fahrenheit) and fan status (on or off)
- Screen 4: IP Address and MAC Address
- Screen 5: Firmware Version and Part Number
- Screen 6: Master Volume Level
- Screen 7: Test Audio (Shows in Green)

1.7 Announcing the IP Address

To announce the IP address for the Paging 25V/70V Amplifier, complete the following steps:

1. Use a paper clip to press the RTFM button, bringing up the **RTFM** screen. See [Figure 7](#).
2. Use the toggle button to select **Speak IP Address** and then **Enter** to activate.
3. If a speaker is connected, the device will announce the IP address.

Figure 7. RTFM Switch



1.8 Restore the Factory Default Settings

The Paging 25V/70V Amplifier is delivered with factory set default values for the parameters in [Table 1](#). Use the RTFM switch (see [Figure 8](#)) on the front of the unit to restore these parameters to the factory default settings.

Note When you perform this procedure, the factory default settings are restored. The default parameters for access are shown in Table 1-2.

Table 1. Factory Default Settings

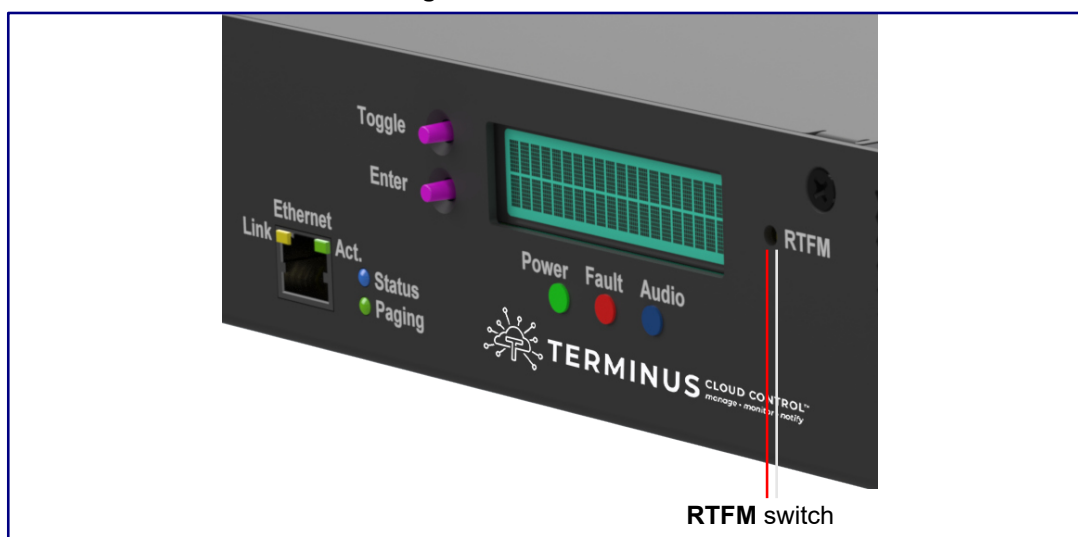
Parameter	Factory Default Setting
IP Addressing	DHCP
IP Address ^a	192.168.1.23
Web Access Username	admin
Web Access Password	admin
Subnet Mask ^a	255.255.255.0
Default Gateway ^a	192.168.1.1

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

To restore these parameters to the factory default settings:

1. Use a paper clip to press the RTFM button, bringing up the **RTFM** screen.
2. Use the toggle button to select **Restore Defaults**, and then Enter to activate.
3. Selecting **Restore Defaults** will bring up the confirmations screen, where selecting Enter will restore defaults.
4. If a speaker is connected, the device will announce, "restoring default configuration" and "rebooting."

Figure 8. RTFM Switch



Chapter 2. Configure the Device

2.1 Log In Page

1. Open your browser to the Intercom IP address.

Note If the network does not have access to a DHCP server, the device will default to an IP address of 192.168.1.23.

Note Make sure that the PC is on the same IP network as the Intercom.

Note You may also download CyberData's VoIP Discovery Utility program which allows you to easily find and configure the default web address of the CyberData VoIP products.

CyberData's VoIP Discovery Utility program is available at the following website address:

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

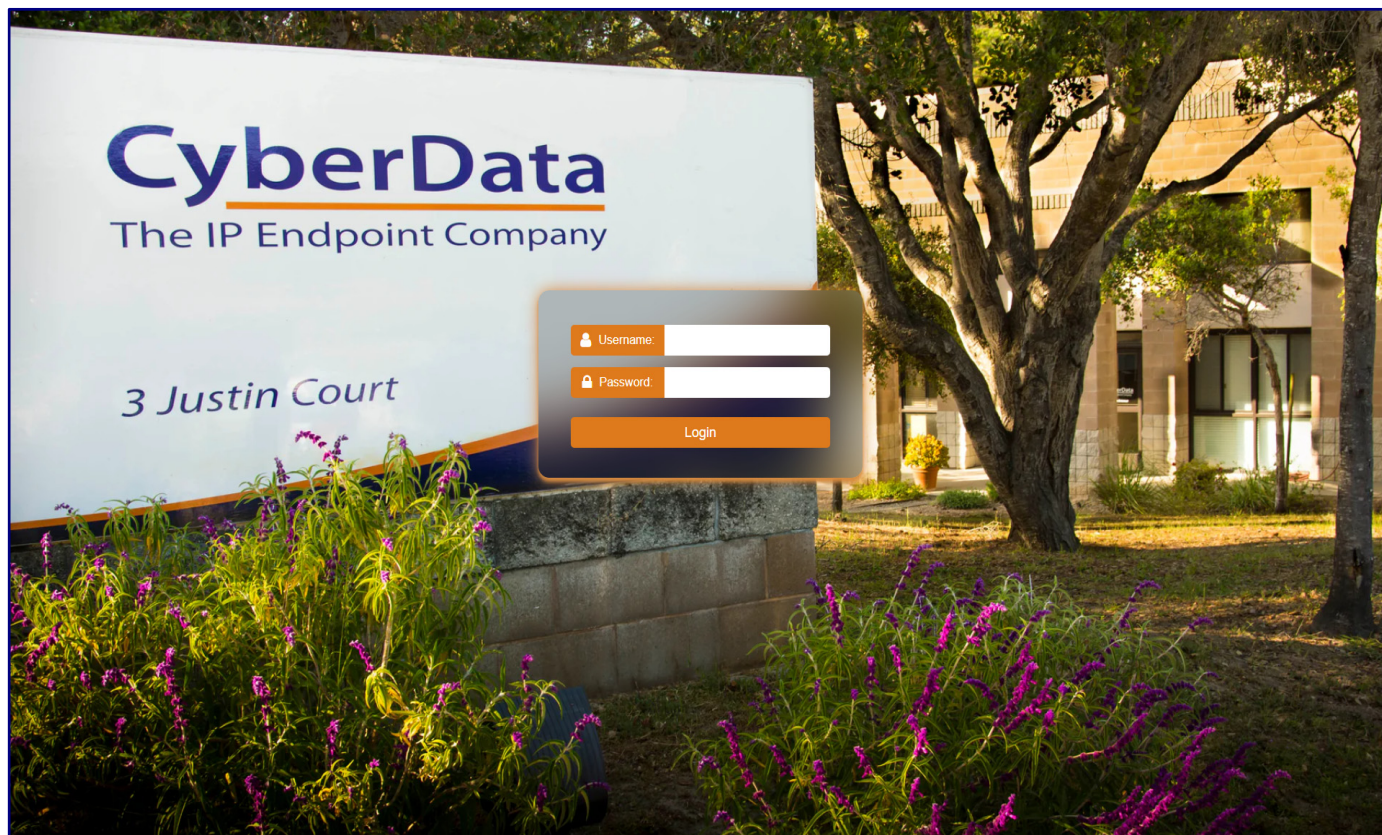
Note The Intercom ships in DHCP mode. To get to the Home page, use the discovery utility to scan for the device on the network and open your browser from there.

2. On the **Log In Page** (Figure 9), use the following default **Web Access Username** and **Web Access Password** to access the **Home Page** (Figure 10):

Web Access Username: **admin**

Web Access Password: **admin**

Figure 9. Log In Page



2.2 Home Page

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

Figure 10. Home Page

The screenshot displays the CyberData Home Page interface. At the top, a purple header bar contains the CyberData logo, product information (25/70 Paging Amplifier, Firmware v23.0.1), serial and MAC addresses (598000002, 00:20:F7:05:B7:13), available storage (1413MB), and device status (Idle). Action buttons (Test, Save, Cancel, Reboot, Logout) are on the right. A vertical sidebar on the left lists various system icons. The main content area features five configuration panels:

Device Configuration	
Serial Number	598000002
Mac Address	00:20:f7:05:b7:13
Firmware Version	v23.0.1
Partition 2	v23.0.1
Partition 3	v23.0.1
Booting Partition	partition 2

Network Status	
IP Address Protocol	DHCP
IP Address	10.10.2.74
Subnet Mask	255.0.0.0
Default Gateway	10.0.0.1
DNS Server 1	10.0.5.1
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	
Master Volume:	8

System Configuration	
SIP Mode:	Enabled
Multicast Mode:	Disabled

The footer of the page shows the CyberData logo and a link to Support.

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

Figure 11. InformaCast enabled Device

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

2.3 Device

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

Figure 12. Device Configuration Page

CyberData
The IP Endpoint Company

Product: 25/70 Paging Amplifier
Firmware: v23.0.1

Serial: 598000002
MAC: 00:20:F7:05:B7:13

Available Storage: 1413MB
Device Status: Idle

Test Save Cancel Reboot Logout

Line-in Settings

Line-in to Line-out Loopback: OFF

Line-in to Multicast: OFF

Multicast Address: 224.1.2.3

Multicast Port: 2000

Detect Line-in Silence: OFF

Multicast Polycom Paging: OFF

Multicast Polycom Channel: 1

Line-in Gain: 127

Line-in Playback Volume: 8 [Advanced Settings](#)

Zone One (Z1): ENABLED

Zone Two (Z2): ENABLED

Zone Three (Z3): ENABLED

Zone Four (Z4): ENABLED

Time Settings

NTP Server(s): 198.137.202.32, 129.146.193.200, 45

NTP Timezone: America/Los_Angeles (-8)

Current Time: Wed, 17 Dec 2025 08:32:54

Misc Settings

Device Name: 2570 Paging Amplifier

Bypass DTMF Menu: DISABLED

Beep on Init: OFF

Multicast TTL: 255

Relay Settings

Relay Status: Locked

Relay on Local Audio: OFF

Relay While Call Active: OFF

Relay on Line-in Loopback: OFF

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

Figure 13. InformaCast enabled Device

InformaCast Settings

InformaCast Server: Host or IP address

Zone One (Z1): ENABLED

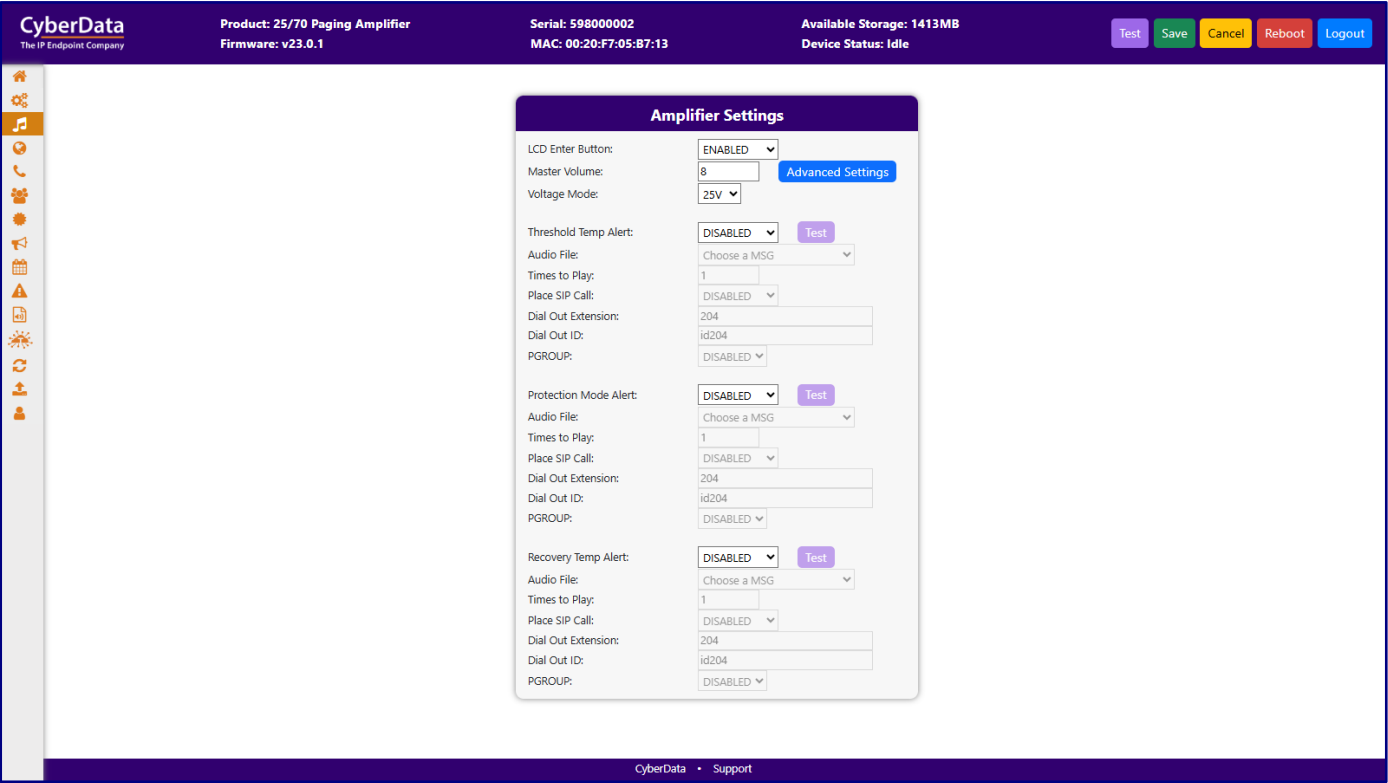
Zone Two (Z2): ENABLED

Zone Three (Z3): ENABLED

Zone Four (Z4): ENABLED

2.4 Amplifier

Figure 14. Amplifier Page



2.5 Network

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

Figure 15. Network Page

CyberData
The IP Endpoint Company

Product: 25/70 Paging Amplifier
Firmware: v23.0.1

Serial: 598000002
MAC: 00:20:F7:05:B7:13

Available Storage: 1413MB
Device Status: Idle

Test Save Cancel Reboot Logout

Network Status

IP Address Protocol	DHCP
IP Address	10.10.2.74
Subnet Mask	255.0.0.0
Default Gateway	10.0.0.1
DNS Server 1	10.0.5.1
DNS Server 2	

Network Settings

Addressing Mode:	DHCP
Hostname:	SipDevice05b713
IP Address:	10.10.10.10
Subnet Mask:	255.0.0.0
Default Gateway:	10.0.0.1
DNS Server 1:	1.1.1.1
DNS Server 2:	8.8.8.8
DHCP Timeout:	60 seconds

VLAN Settings

VLAN ID:	0
VLAN Priority:	0

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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 16. SIP Page

Note The Office Ringer is generally used with Auto Answer disabled, and produces a loud ring when called. With Auto Answer enabled, it will establish a half duplex call, where the Office Ringer receives audio.

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

Figure 17. InformaCast enabled Device

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

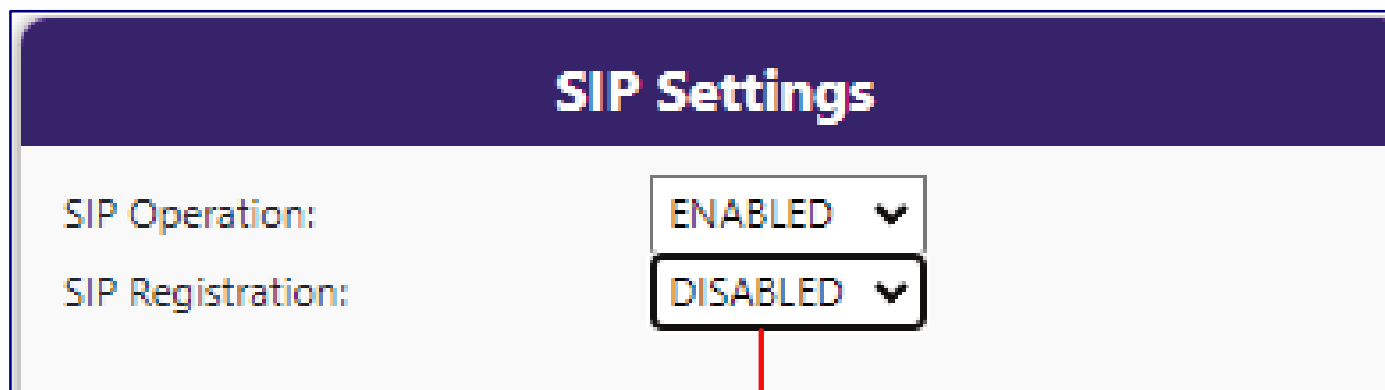
2.6.1 Dial Out Extension Strings and DTMF Tones (using rfc2833)

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

2.6.2 Point-to-Point Configuration

Dialing point-to-point allows the device to call and a single endpoint. All CyberData endpoints and many phones can use this option. To do this, enable **SIP Operation**, do not enable **SIP Registration**, and use the endpoint's IP address as the Dial Out extension. Delayed DTMF is supported. See [Figure 18](#).

Figure 18. SIP Page Set to Point-to-Point Mode



The image shows a web interface titled "SIP Settings". It contains two configuration items: "SIP Operation:" with a dropdown menu set to "ENABLED", and "SIP Registration:" with a dropdown menu set to "DISABLED". A red line points from the "DISABLED" option to the text below the form.

Device is set to NOT register with a SIP server

2.7 Paging Groups (PGROUPS)

The PGroups page allows for configuration of the PGroup(s) including stored message playback and Polycom Paging.

Figure 19. PGROUPS Page

The screenshot displays the CyberData PGROUPS configuration page. The top header bar includes the CyberData logo, product information (25/70 Paging Amplifier, Firmware: v23.0.1), serial and MAC addresses, available storage (1413MB), and device status (Idle). Action buttons for Test, Save, Cancel, Reboot, and Logout are on the right.

Below the header, there is a 'Stored Message Recording' section with a dropdown menu set to 'DISABLED' and a text field for the 'Recording Security Code'.

The main section is titled 'Paging Groups' and contains a table with 10 rows, each representing a paging group. The table columns are: #, Address, Port, Name, Code, TTL, Lineout, and an Edit button. The data is as follows:

#	Address	Port	Name	Code	TTL	Lineout	Edit
0	234.2.1.1	2000	PagingGroup00		255	Yes	Edit
1	234.2.1.2	2002	PagingGroup01		255	Yes	Edit
2	234.2.1.3	2004	PagingGroup02		255	Yes	Edit
3	234.2.1.4	2006	PagingGroup03		255	Yes	Edit
4	234.2.1.5	2008	PagingGroup04		255	Yes	Edit
5	234.2.1.6	2010	PagingGroup05		255	Yes	Edit
6	234.2.1.7	2012	PagingGroup06		255	Yes	Edit
7	234.2.1.8	2014	PagingGroup07		255	Yes	Edit
8	234.2.1.9	2016	PagingGroup08		255	Yes	Edit
9	234.2.1.10	2018	PagingGroup09		255	Yes	Edit

Below the table is a pagination control showing a range from 1 to 10, with 1 currently selected.

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

2.7.1 PGroup Configuration

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 G711.Mu.

Figure 20. PGroup Configuration

Configure PGROUP

PGROUP	0
Address	<input type="text" value="234.2.1.1"/>
Port	<input type="text" value="2000"/>
Name	<input type="text" value="PagingGroup00"/>
Security Code	<input type="text" value="0-9, *, #"/>
TTL	<input type="text" value="255"/>
Line-out	<input checked="" type="checkbox"/>
Play Stored Message	<input type="checkbox"/>
Audio File	<input type="text" value="Choose a MSG"/>
Times to Play	<input type="text" value="1"/>
Send Polycom Page	<input type="checkbox"/>
Polycom Transmit Channel	<input type="text" value="1"/>

Zone One (Z1):

Zone Two (Z2):

Zone Three (Z3):

Zone Four (Z4):

ENABLED

ENABLED

ENABLED

ENABLED

Save

Cancel

2.8 SSL

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

Figure 21. SSL Page (1 of 2)

CyberData
The IP Endpoint Company

Product: 25/70 Paging Amplifier
Firmware: v23.0.1

Serial: 598000002
MAC: 00:20:F7:05:B7:13

Available Storage: 1413MB
Device Status: Idle

Test Save Cancel Reboot Logout

Web Server Certificate

```

subject=
countryName      = US
stateOrProvinceName = California
localityName     = Monterey
organizationName  = Cyberdata
commonName       = 8020F705B713
notBefore=Dec 16 19:07:54 2025 GMT
notAfter=Dec 14 19:07:54 2035 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       = 8020F705B713
notBefore=Dec 16 19:07:54 2025 GMT
notAfter=Dec 14 19:07:54 2035 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       = 8020F705B713
notBefore=Dec 16 19:07:54 2025 GMT
notAfter=Dec 14 19:07:54 2035 GMT

```

Choose Files No file chosen

Import Autoprovisioning Certificate

Restore Autoprovisioning Certificate

Password (optional):

List of Trusted CAs

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

Download CyberData CA Generate Cyberdata CSR Remove All Restore Defaults

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

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Figure 22. SSL Page (2 of 2)

CyberData
The IP Endpoint Company

Product: 25/70 Paging Amplifier
Firmware: v23.0.1

Serial: 598000002
MAC: 00:20:F7:05:B7:13

Available Storage: 1413MB
Device Status: Idle

Test Save Cancel Reboot Logout

9	DigiCert_Trusted_Root_G4.crt	Info	Remove
10	GeoTrust_Global_CA.crt	Info	Remove
11	GeoTrust_Primary_Certification_Authority.crt	Info	Remove
12	GeoTrust_Primary_Certification_Authority_-_G2.crt	Info	Remove
13	GeoTrust_Primary_Certification_Authority_-_G3.crt	Info	Remove
14	GeoTrust_Universal_CA.crt	Info	Remove
15	GeoTrust_Universal_CA_2.crt	Info	Remove
16	Go_Daddy_Class_2_CA.pem	Info	Remove
17	Go_Daddy_Root_Certificate_Authority_-_G2.pem	Info	Remove
18	VeriSign_Class_3_Public_Primary_Certification_Authority_-_G4.crt	Info	Remove
19	VeriSign_Class_3_Public_Primary_Certification_Authority_-_G5.crt	Info	Remove
20	VeriSign_Universal_Root_Certification_Authority.crt	Info	Remove
21	VeriSign_Class_1_Public_Primary_Certification_Authority.crt	Info	Remove
22	VeriSign_Class_1_Public_Primary_Certification_Authority_-_G3.crt	Info	Remove
23	VeriSign_Class_2_Public_Primary_Certification_Authority_-_G2.crt	Info	Remove
24	VeriSign_Class_2_Public_Primary_Certification_Authority_-_G3.crt	Info	Remove
25	VeriSign_Class_3_Public_Primary_Certification_Authority.crt	Info	Remove
26	VeriSign_Class_3_Public_Primary_Certification_Authority_-_G3.crt	Info	Remove
27	thawte_Primary_Root_CA.crt	Info	Remove
28	thawte_Primary_Root_CA_-_G2.crt	Info	Remove
29	thawte_Primary_Root_CA_-_G3.crt	Info	Remove

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2.9 Multicast

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

A paging zone can consist of one or many CyberData multicast group-enabled products. There is no limit to how many endpoints can be in a given paging zone. Each multicast group is defined by a multicast address and port number.

Each multicast group is assigned a priority, allowing simultaneously arriving pages to be serviced based on importance. Multicast groups are compatible with IGMP through version 3. The device supports simultaneous SIP and Multicast.

Figure 23. Multicast Page

CyberData
The IP Endpoint Company

Product: 25/70 Paging Amplifier
Firmware: v23.0.1

Serial: 598000002
MAC: 00:20:F7:05:B7:13

Available Storage: 1413MB
Device Status: Idle

Test Save Cancel Reboot Logout

Multicast Settings

Receive Multicast Audio: DISABLED ▼

Polycom Default Channel: 1 ▼

Polycom Priority Channel: 24 ▼

Polycom Emergency Channel: 25 ▼

Priority	Address	Port	Name	Beep	Relay	Zones
0	239.168.3.2	2000	Background Music	DISABLED ▼	DISABLED ▼	Z1 Z2 Z3 Z4
1	239.168.3.3	3000	MG1	DISABLED ▼	DISABLED ▼	Z1 Z2 Z3 Z4
2	239.168.3.4	4000	MG2	DISABLED ▼	DISABLED ▼	Z1 Z2 Z3 Z4
3	239.168.3.5	5000	MG3	DISABLED ▼	DISABLED ▼	Z1 Z2 Z3 Z4
4	239.168.3.6	6000	MG4	DISABLED ▼	DISABLED ▼	Z1 Z2 Z3 Z4
5	239.168.3.7	7000	MG5	DISABLED ▼	DISABLED ▼	Z1 Z2 Z3 Z4
6	239.168.3.8	8000	MG6	DISABLED ▼	DISABLED ▼	Z1 Z2 Z3 Z4
7	239.168.3.9	9000	MG7	DISABLED ▼	DISABLED ▼	Z1 Z2 Z3 Z4
8	239.168.3.10	10000	MG8	DISABLED ▼	DISABLED ▼	Z1 Z2 Z3 Z4
9	239.168.3.11	11000	Emergency	DISABLED ▼	DISABLED ▼	Z1 Z2 Z3 Z4

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

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2.10 Schedules

Figure 24. Schedules Page

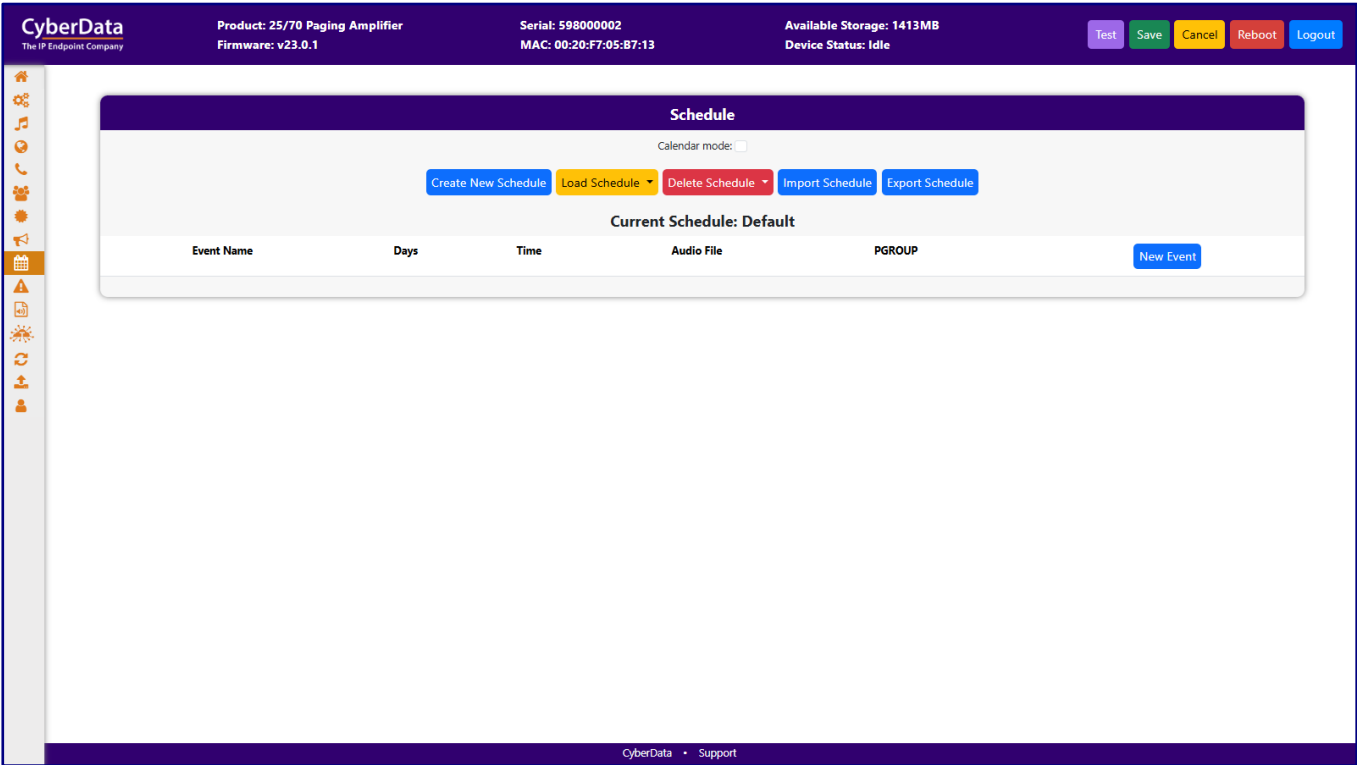


Figure 25. Calendar

CyberData
The IP Endpoint Company

Product: 25/70 Paging Amplifier
Firmware: v23.0.1

Serial: 598000002
MAC: 00:20:F7:05:87:13

Available Storage: 1413MB
Device Status: Idle

TestSaveCancelRebootLogout

Calendar

Calendar model:

Create New CalendarLoad CalendarDelete CalendarImport CalendarExport Calendar

Current Calendar: sample

New Event<<<<December 2025>>>>View Past

SUN	MON	TUE	WED	THU	FRI	SAT
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

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2.11 Fault

The Fault page controls configuration of all Fault or sensor related capabilities of the unit. This can include the fault sensor that is used to have the device take action based on a physical input to the device.

Figure 26. Fault Page

The screenshot displays the CyberData web interface for the Fault Detection Settings page. The top header bar is purple and contains the following information:

- CyberData** The IP Endpoint Company
- Product:** 25/70 Paging Amplifier
- Firmware:** v23.0.1
- Serial:** 598000002
- MAC:** 00:20:F7:05:87:13
- Available Storage:** 1413MB
- Device Status:** Idle
- Buttons: Test, Save, Cancel, Reboot, Logout

The main content area features a sidebar on the left with various icons, including a warning icon. The central panel is titled "Fault Detection Settings" and contains the following configuration options:

Message Playbacks:	0
Play Message Locally:	DISABLED
Call to Extension:	DISABLED
Dial Out Extension:	204
Dial Out ID:	id204
Multicast Audio:	DISABLED
Multicast Address:	239.168.3.1
Multicast Port:	8888
Polycom Paging:	DISABLED
Polycom Paging Channel:	1
Zone One (Z1):	ENABLED
Zone Two (Z2):	ENABLED
Zone Three (Z3):	ENABLED
Zone Four (Z4):	ENABLED

The footer of the page is purple and contains the text: CyberData • Support

2.12 Audiofiles

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

Figure 27. Audiofiles Page (1 of 3)

The screenshot displays the CyberData Audiofiles Page (1 of 3). The page header includes the CyberData logo, product information (25/70 Paging Amplifier, Firmware: v23.0.1), serial number (598000002), MAC address (00:20:F7:05:B7:13), available storage (1413MB), and device status (Idle). The main content area is a table titled "Audio Files" with columns for file name, current settings, and actions (Play, Save, Delete). The table lists various audio files including 0:, 1:, 2:, 3:, 4:, 5:, 6:, 7:, 8:, 9:, Audio Test:, Dot:, Night Ring:, Page Tone:, Rebooting:, Restoring Default:, Ringback Tone:, Ring Tone:, Sensor Triggered:, Stored Message File Not Found:, Your IP Address is:, Enter Zone:, and Confused:.

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
Ringback Tone:	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
Enter Zone:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete
Confused:	Currently set to:	default	Choose File	No file chosen	Play	Save	Delete

Figure 28. Audiofiles Page (2 of 3)

Menu Audio Files						
Cancel:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
Currently Playing:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
Invalid Entry:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
Page:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
Play Stored Message:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
Pound (#):	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
Press:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
Stored Message:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
To:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
Enter Code:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
Enter Recording Security Code:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
Invalid Code:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
Press Start To Record Message:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
Or:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
Record Message Prompt:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
Save Record Message Prompt:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
Assign Zone To Message:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
Message Saved Successfully:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
Message Not Saved Successfully:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>
You Recorded:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Play"/>	<input type="button" value="Save"/> <input type="button" value="Delete"/>

Figure 29. Audiofiles Page (3 of 3)

Recorded Messages		
<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Upload Message"/>	<input type="button" value="Delete All Messages"/>

Bells		
<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Upload Bell"/>	<input type="button" value="Delete All Bells"/>

2.13 Terminus

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

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

Figure 30. Terminus Page

CyberData
The IP Endpoint Company

Product: 25/70 Paging Amplifier
Firmware: v23.0.1

Serial: 598000002
MAC: 00:20:F7-05:B7:13

Available Storage: 1413MB
Device Status: Idle

Test Save Cancel Reboot Logout

Cloud Configuration

Cloud Enrollment Terminus Service: ENABLED

Enrollment Server: Enrollment Server

Discovery Setting

Multicast Address: 239.27.32.4

Time to Live: 255

Discovery Interval: 60 seconds

Lockdown Settings

Lock Down Mode: Disabled

Relay: No Action

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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, 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 31. Autoprovisioning Page

CyberData
The IP Endpoint Company

Product: 25/70 Paging Amplifier
Firmware: v23.0.1

Serial: 598000002
MAC: 00-20:F7-05:B7:13

Available Storage: 1413MB
Device Status: Idle

Test Save Cancel Reboot Logout

Autoprov Settings

Autoprov:

Autoprov Server:

Autoprov Filename:

Use tftp:

Verify Server Certificate:

Username:

Password: @

Autoprov autoupdate: minutes

Autoprov at time:

Autoprov when idle: minutes

[Download Template](#)

Autoprov Log

```

2025-12-17 08:49:20 Autoprov: no autoprov triggers. Exiting..
2025-12-17 08:49:23 Autoprovisioning on boot
2025-12-17 08:49:23 Autoprov found server="10.0.0.242" in dhcp option 72
2025-12-17 08:49:23 Autoprov looking for 0020f705b713.xml at 10.0.0.242
2025-12-17 08:49:23 Autoprov downloading 10.0.0.242/0020f705b713.xml
2025-12-17 08:49:23 Got autoprov file. Parsing "0020f705b713.xml"
2025-12-17 08:49:23 not have_table(db, 'AccessSchedules')
2025-12-17 08:49:24 Autoprov: Processing ssl certificates
2025-12-17 08:49:24 No certificate elements in SSLCertificates
2025-12-17 08:49:24 Autoprov: Processing audio files
2025-12-17 08:49:24 Autoprov: FirmwareSettings config not found
2025-12-17 08:49:24 Autoprov: Calendars config not found
2025-12-17 08:49:24 DeviceConfig: error = False
2025-12-17 08:49:24 SSLCertificates: error = None
2025-12-17 08:49:24 AudioFiles: error = False
  
```

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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:

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

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

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

- Firmware file
- Release notes
- Autoprovisioning template


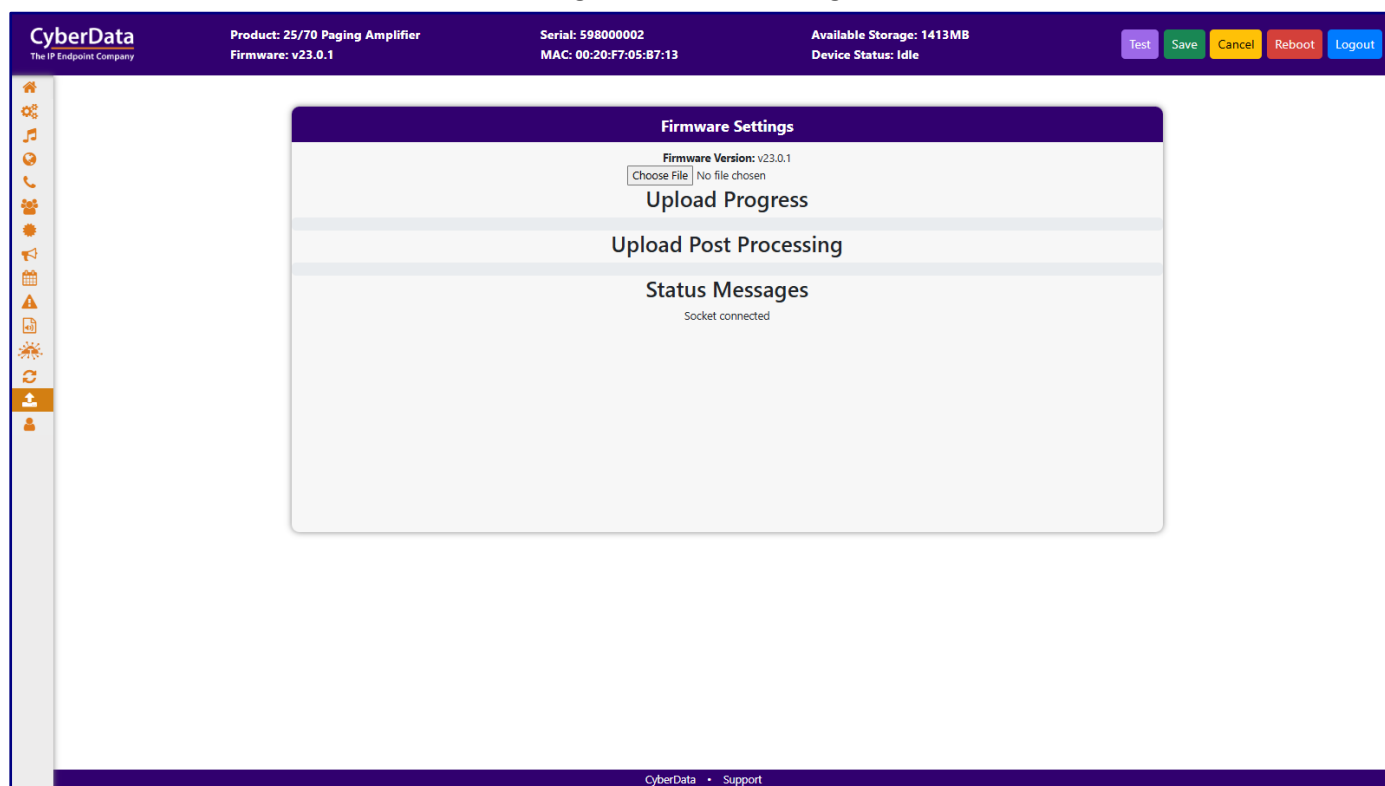
 GENERAL ALERT	<p>Caution</p> <p>Equipment Hazard: Do not reboot the device. It will reboot automatically when the process is complete.</p>
--	--

Figure 32. Firmware Page

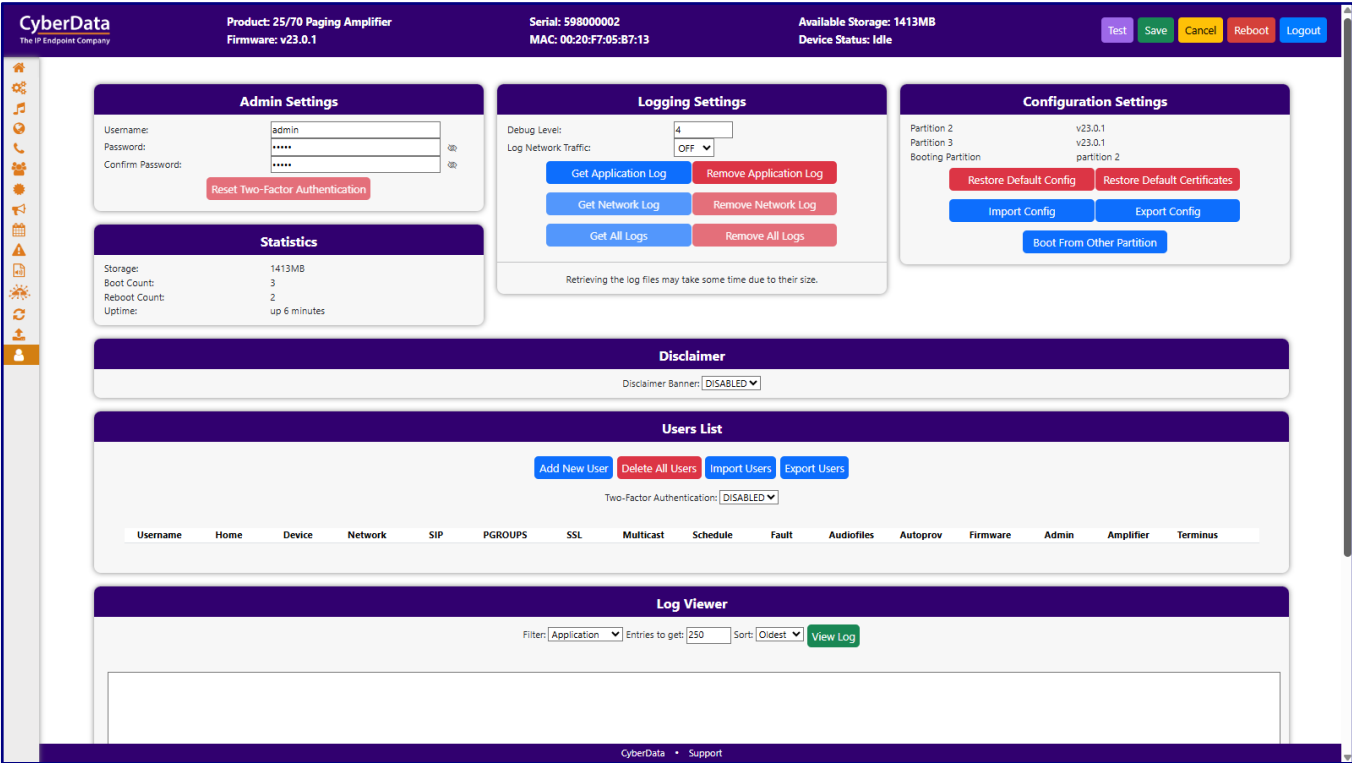


2.16 Admin

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

Note Two factor authentication is enabled here.

Figure 33. Admin Page



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](#) use the free unix utility, wget commands. However, 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. Command Interface Post Commands

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

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

Appendix A: Troubleshooting/Technical Support ³²

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 The fastest way to get technical support for your VoIP product is to submit a VoIP Technical
Support 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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