



Paging 25V/70V Amplifier Operations Guide

SIP Compliant Part #011579, 011592 Document Part #932065B for Firmware Version 22.0

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Technical Support

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> Phone: (831) 373-2601, Ext. 333 Fax: (831) 373-4193 Company and product information is at **www.cyberdata.net**.

Revision Information

Revision 932065B, which corresponds to firmware version 22.0, was released on March 27, 2025, and has the following changes:

- Updates the following text in Section 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/Ring Group.
- Adds the following text in Section 2.7, "Paging Groups (PGROUPS)":

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

• Adds Section Section 2.7.1, "PGroup Configuration"

Pictorial Alert Icons

| GENERAL ALERT | General Alert This pictoral alert indicates a potentially hazardous situation. This alert will be followed by a hazard level heading and more specific information about the hazard. |
|---------------|---|
| | Ground This pictoral alert indicates the Earth grounding connection point. |

Hazard Levels

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

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

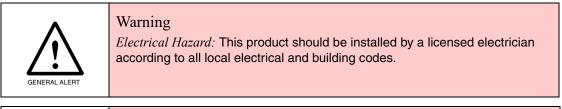
Caution: Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It may also alert users against unsafe practices.

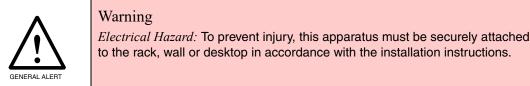
Notice: Indicates a statement of company policy (that is, a safety policy or protection of property).

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

Important Safety Instructions

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





Abbreviations and Terms

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

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1.1 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 1-1)

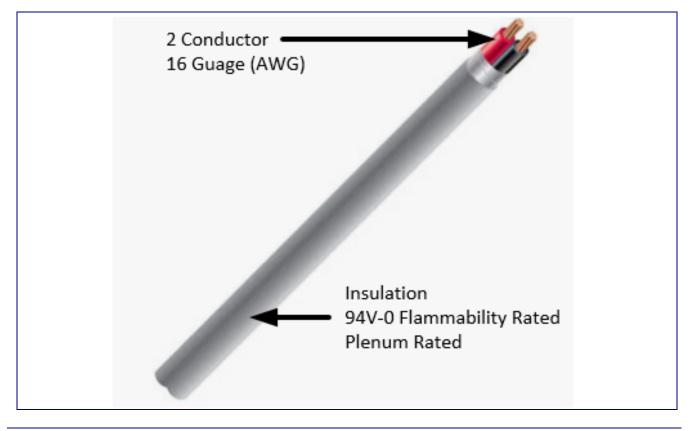
- Use with speaker systems in an indoor audio system
- Class 3, riser rated for in-wall installation in riser and non-riser spaces
- PVC insulating jacket
- 2 fully annealed class B stranded bare copper conductors
- 16-Gauge
- UL Type CL3R
- Plenum rated

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

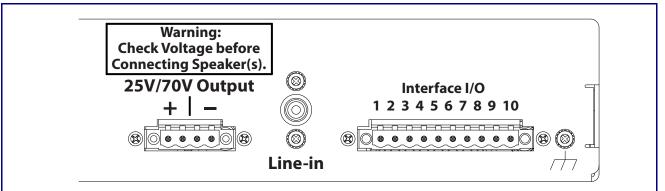


1.2 Connecting the Paging 25V/70V Amplifier

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 1-2 for the connection options that are available for the Paging 25V/70V Amplifier.

Figure 1-2. Connection Options



25V/70V Output

There are two 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 Page Port Output Connections

| Pin | Description |
|--------|---|
| Pin 1 | Fault Sense Input (Common). See Section 1.3.1, "Pin 1 and 2-Fault Sense Input (Common/Sense)." |
| Pin 2 | Fault Sense Input (Sense). See Section 1.3.1, "Pin 1 and 2-Fault Sense Input (Common/Sense)." |
| Pin 3 | Reserved |
| Pin 4 | Reserved |
| Pin 5 | Ground Reference |
| Pin 6 | Relay Contact - Common ^a . See Section 1.3.2, "Pin 6 and 7—Relay Contact (Common/Normally Open)". |
| Pin 7 | Relay Contact - Normally Open ^a . See Section 1.3.2, "Pin 6 and 7—Relay Contact (Common/Normally Open)". |
| Pin 8 | Line Level Output (+). See Section 1.3.3, "Pin 8 and 9 - Line Out." |
| Pin 9 | Line Level Output (-). See Section 1.3.3, "Pin 8 and 9 - Line Out." |
| Pin 10 | Reserved |

a. 1 Amp at 30 VDC for continuous loads

1.3.1 Pin 1 and 2—Fault Sense Input (Common/Sense)

This input was designed as a method of monitoring an external amplifier that is equipped with a fault sense relay.

When enabled via the web interface (Section 2.11, "Fault"), this input (when closed) will play a user uploadable audio file out of the line-out connection and/or place a SIP call to a pre-determined extension and play that file.

1.3.2 Pin 6 and 7—Relay Contact (Common/Normally Open)

When enabled on the web interface (Section 2.3, "Device"), every time an audio file is played out of the local line-out or 600 Ohm output, the relay will close, thereby enabling amplifiers with a remote turn-on capability to become active.

1.3.3 Pin 8 and 9 - Line Out

These RCA 10K Ohm Hi-Z output connections allow you to connect the device to The RCA line-in (10K Ohm Hi-Z) of an external audio amplifier.

1.4 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 1-3.

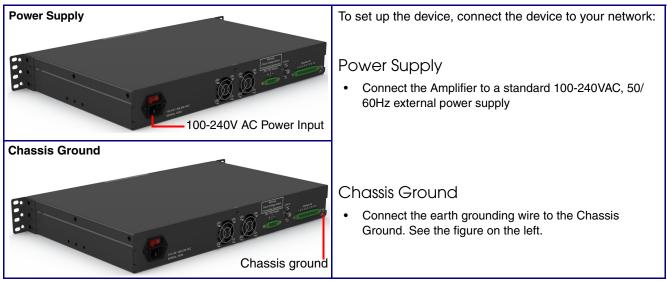


Figure 1-3. Connecting to the Power Source

1.5 Connect to the Network

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

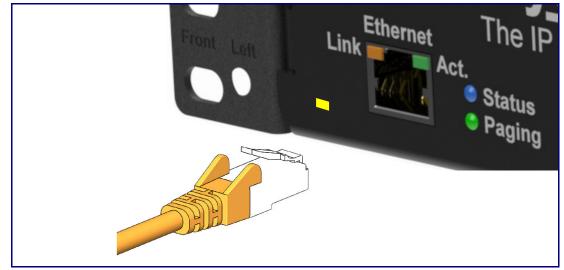


Figure 1-4. Connecting to the Network

1.6 Confirm that the Paging 25V/70V Amplifier is Up and Running

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

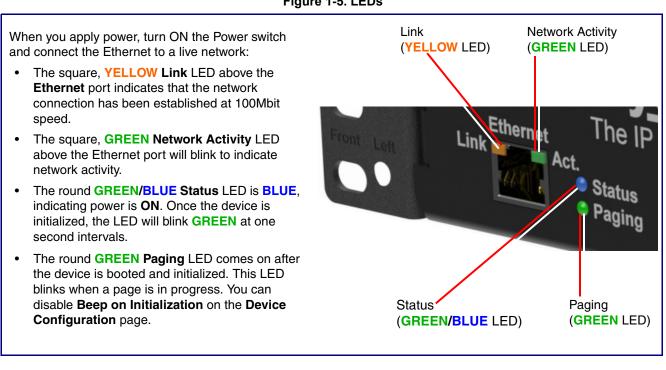


Figure 1-5. LEDs

1.6.1 Verify Network Activity

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

1.7 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 1-6.

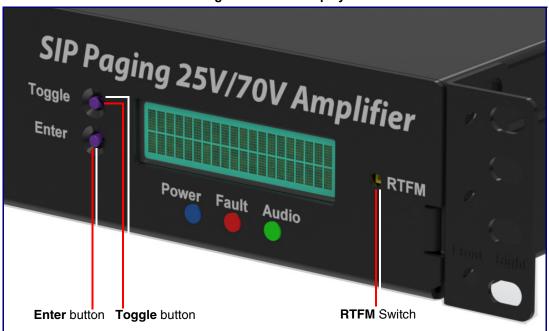


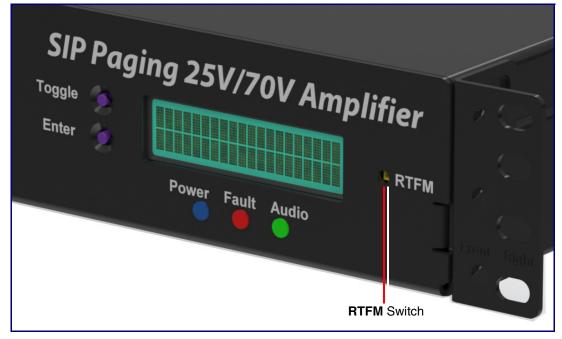
Figure 1-6. LCD Display

- 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)

1.8 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 1-7.
- 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.





1.9 Restore the Factory Default Settings

The Paging 25V/70V Amplifier is delivered with factory set default values for the parameters in Table 1-2. Use the **RTFM** switch (see Figure 1-8) on the front of the unit to restore these parameters to the factory default settings.

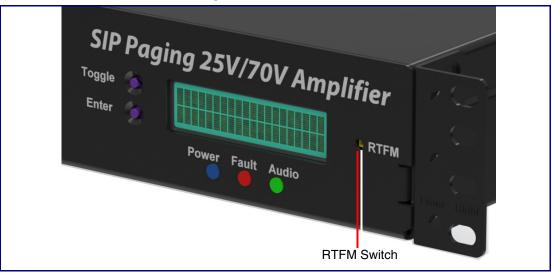


Figure 1-8. RTFM Switch

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

| 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:

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

2.1 Log In Page

- 1. Open your browser to the device 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 Paging 25V/70V 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.
- 2. On the Log In Page (Figure 2-1), use the following default **Web Access Username** and **Web Access Password** to access the **Home Page** (Figure 2-2):

Web Access Username: admin

Web Access Password: admin



Figure 2-1. 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.

| CyberData The IP Endpoint Company | Product: 25/70 Paging Amplifier Firmware: v22.0.0 | Serial: 579200003 MAC: 00:20:f7:05:1c:19 | Available Storage: 1484MB Device Status: Idle | Test Save Cancel Reboot Logout |
|--|--|--|---|--------------------------------|
| | Device Configuration | Network | < Status | SIP Registration |
| Serial Number Mac Address Firmware Version Partition 2 Partition 3 Booting Partition | 57920003 0020/7/05/1c19 v22.0.0 v22.0.0 v22.0.0 partition 2 | IP Address Protocol DHC IP Address 10.1 Subnet Mask 255, Default Gateway 10.0, DNS Server 1 10.0 DNS Server 2 | 0.1.161 Primary Server: 0.0.0 Backup Server 1 0.1 Backup Server 2 | Not registered |
| | Audio Configuration | System Con | figuration | |
| Master Volume: | 8 | SIP Mode: Enat Multicast Mode: Disa Event Mode: Disa | bled | |
| ± = | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | CyberData • S | upport | |

Figure 2-2. Home Page

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

Figure 2-3. InformaCast enabled Device

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

| CyberData The IP Endpoint Company | Product: 25/70 Paging Amplifier Firmware: v22.0.0 | Serial: 579200003 MAC: 00:20 : f7:05:1c:19 | Available Storage: 14 Device Status: Idle | 34MB | Test Save Cancel Reboot Logout |
|---|--|--|--|--|---|
| | K Line-in Settings | | ne Settings | Mi | sc Settings |
| ● Line-in to Line-in to Multicast Addre ● Uniticast Addre ● Multicast Addre ● Multicast Poty: ● Multicast Poty: ● Line-in Playbact ● E ● E ● Relay on Local / | cast: OFF sss: 224.1.2.3 2000 illence: OFF om Paging: OFF m Channel: 1 c Volume: 8 Relay Settings | NTP Serveri NTP Timezone: Current Time: | Importh-america.pool.intp.org America?Los_Angeles (-8) Thu, 05 Dec 2024 15:23:38 | Device Name: Bypass DTMF Menu: Beep on Init: Multicast TTL: | 2570 Raging Amplifier DISABLED U OFF U 255 |
| | | | | | |

Figure 2-4. Device Page

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

Figure 2-5. InformaCast enabled Device

InformaCast Settings InformaCast Server: http://10.0.1.195:8081/InformaCast/resources

2.4 Amplifier

| CyberData The IP Endpoint Company | Product: 25/70 Paging Amplifier Firmware: v22.0.0 | Serial: 579200003 MAC: 00:20 : f7:05:1c:19 | Available Storage: 1484 Device Status: Idle | MB | Test Sa | ve Cancel | Reboot | Logout |
|--------------------------------------|--|--|--|----|---------|-----------|--------|--------|
| # 0; | | | | | | | | |
| 5 | | Am | plifier Settings | | | | | |
| Q | | LCD Enter Button: | ENABLED 🗸 | | | | | |
| Sec. 1 | | Master Volume: | 8 Advanced Settings | | | | | |
| * | | Voltage Mode: | 25V 🗸 | | | | | |
| * | | Threshold Temp Action: | DISABLED V Test | | | | | |
| m | | Audio File: | Choose a MSG 🛛 🗸 | | | | | |
| A | | Times to Play: | 1 | | | | | |
| | | Place SIP Call: | DISABLED 😽 | | | | | |
| | | Dial Out Extension: | 204 | | | | | |
| - | | Dial Out ID: | id204 | | | | | |
| * | | PGROUP: | DISABLED 🗸 | | | | | |
| ₽ ± | | Protection Mode Action: | DISABLED V Test | | | | | |
| 4 | | Audio File: | Choose a MSG 🛛 🗸 | | | | | |
| - | | Times to Play: | 1 | | | | | |
| | | Place SIP Call: | DISABLED 🗸 | | | | | |
| | | Dial Out Extension: | 204 | | | | | |
| | | Dial Out ID: | id204 | | | | | |
| | | PGROUP: | DISABLED 🗸 | | | | | |
| | | Recovery Temp Action: | DISABLED V Test | | | | | |
| | | Audio File: | Choose a MSG 🛛 🗸 | | | | | |
| | | Times to Play: | 1 | | | | | |
| | | Place SIP Call: | DISABLED 🐱 | | | | | |
| | | Dial Out Extension: | 204 | | | | | |
| | | Dial Out ID: | ld204 | | | | | |
| | | PGROUP: | DISABLED 🗸 | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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Figure 2-6. 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.

| CyberData The IP Endpoint Company | Product: 25/70 Paging Amplifier Firmware: v22.0.0 | Serial: 579200003 MAC: 00:20 : f7:05:1c:19 | Available Storage: 1484MB Device Status: Idle | Test Save Cancel Reboot Logout |
|--|--|---|---|--------------------------------|
| IP Address Prote IP Address Subnet Mask | Network Status | | rk Settings | VLAN Settings |
| IP Address Fielders Subnet Mask Default Gask Diffust Server 1 DNS Server 2 | col DHCP 125,0,0,0 10,0,1,1 10,0,1,56 | Hostname: 5 IS Port Mask: 2 Default Gateway: 1 DNS Server 1: 1 DNS Server 2: 1 DHCP Timeout: 6 | DHCP V VLAN ID: ipDevice051c19 1010.10 550.00 00.0.1 0 seconds | |
| | | CyberData • | Support | |

Figure 2-7. Network Page

2.6 SIP (Session Initiation Protocol)

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

| CyberD The IP Endpoint Co | | uct: 25/70 Paging Amplifier ware: v22.0.0 | Serial: 579200003 MAC: 00:20:f7:05:1c:19 | | Available Storage: 1 Device Status: Idle | 484MB | Test Save | Cancel Reboot Logout |
|------------------------------|-------------|--|---|---|---|-------|-----------|----------------------|
| | mpany Firmv | | MAC: 00:20:f7:05:1c:19 | Server Settings 10.0.223 199 199 260 Backup SIP User ID Backup SIP User ID Backup SIP User ID Backup SIP User ID Backup SIP Auth Pa 360 Second SIP Auth Pa 360 | Device Status: Idle | | test Save | 8 |
| | | | CyberDat | a • Support | | | | |

Figure 2-8. SIP Page

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

Figure 2-9. InformaCast enabled Device

InformaCast SIP Config:

DISABLED

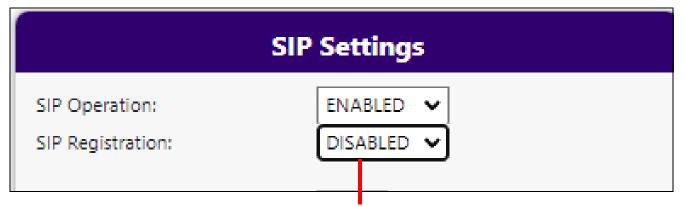
2.6.1 Dial Out Extension Strings and DTMF Tones (using rfc2833)

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 2-10.

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



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.

| CyberData The IP Endpoint Company | Product: 25/70 Paging Firmware: v22.0.0 | Amplifier | | Serial: 57920000 MAC: 00:20:f7:0 | | Available Stora Device Status: | | IB | | Test | Save Cano | el Reboot | Logout |
|--------------------------------------|--|-----------|-------------------------|---|---------------------|-----------------------------------|-----|---------|------|------|-----------|-----------|--------|
| ¥ € U € J 8 * | | | | Stored Message Recor Recording Security Co | | ng | | | | | | | |
| • | | | | | Paging Groups | | | | | | | | |
| ₽ 1 | | # | Address | Port | Name | Code | TTL | Lineout | | | | | |
| A | | 0 | 234.2.1.1 | 2000 | PagingGroup00 | | 255 | Yes | Edit | | | | |
| a | | 1 | 234.2.1.2 | 2002 | PagingGroup01 | | 255 | Yes | Edit | | | | |
| 100 | | 2 | 234.2.1.3 | 2004 | PagingGroup02 | | 255 | Yes | Edit | | | | |
| <i>*</i> ₩ 2 | | 3 | 234.2.1.4 | 2006 | PagingGroup03 | | 255 | Yes | Edit | | | | |
| ž. | | 4 | 234.2.1.5 | 2008 | PagingGroup04 | | 255 | Yes | Edit | | | | |
| A | | 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 | 234.2.1.9 234.2.1.10 | 2016 | PagingGroup08 | | 255 | Yes | Edit | | | | |
| | | 9 | 254.2.1.10 | | PagingGroup09 | | 200 | Tes | Edit | | | | |
| | | | | « <u>1</u> 2 | 3 4 5 6 7 8 | 9 10 » | | | | | | | |
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Figure 2-11. PGROUPS Page

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 2-12. PGroup Configuration

| Configure PGROUP | | | | |
|-------------------------|----------------|--|--|--|
| PGROUP | 0 | | | |
| Address | 234.2.1.1 | | | |
| Port | 2000 | | | |
| Name | PagingGroup00 | | | |
| Security Code | 0-9, *, # | | | |
| TTL | 255 | | | |
| Line-out | | | | |
| Play Stored Message | | | | |
| Audio File | Choose a MSG ∽ | | | |
| Times to Play | 1 | | | |
| Send Polycom Page | | | | |
| Polycom Transmit Channe | 1 ~ | | | |
| S | ave 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.

| CyberData The IP Endpoint Company | Product: 25/70 Paging Amplifier Firmware: v22.0.0 | Serial: 579200003 MAC: 00:20:F7:05:1c:19 | Available Storage: 1484MB Device Status: Idle | Test | Save Cancel Reboot Logout |
|--------------------------------------|---|--|--|--|--|
| | web Server Certificate subject Contry Name 105 Subject Subject Comonition Subject Choose Files No file choose Rostore Web Certificate Subject | SIP Client Cer subject= countryName istationProvinceName istationProvinceName commonN | - US - California - Ronterey - Openata - Openata 20 Ger 31 Ger Seen Micate | Autoprovisioning Clie subject= countryName stateOProvinceName organizationName commonName rotation-aday 20157101.201 Choose Files No file choose Import Autoprovisioning Restore Autoprovisioning Password (optional); | - US - California - Robertary - Cyberdary - ROBATPSLID 3 OFF - ROBATPSLID - ROB |
| ± | | List of Truste Upload CA Certificate: Choose Files No file chos Download CyberData CA Generate Cyberdata | | | |
| | 1 CyberData_CA.pem 2 DigiCert_Assured_ID_Root_CA.crt | | Info | | |
| | 3 DigiCert_Assured_ID_Root_G2.crt 4 DigiCert_Assured_ID_Root_G3.crt | | Info Info | | |
| | 5 DigiCert_Global_Root_CA.crt 6 DigiCert_Global_Root_G2.crt | | Info Info | Remove Remove | |
| | 7 DigiCert_Global_Root_G3.crt | | Info | Remove | |
| | BigiCert_High_Assurance_EV_Root_C DigiCert_Trusted_Root_G4.crt | A.crt | Info | Remove | |
| | | CyberData • Suppo | | Remove | • |

Figure 2-13. SSL Page (1 of 2)

| CyberData The IP Endpoint Company | Product: 25/70 Paging Amplifier Firmware: v22.0.0 | Serial: 579200003 MAC: 00:20:f7:05:1c:19 | Available Storage: 1484MB Device Status: Idle | | Test Save Cancel Reboot Logout |
|--------------------------------------|--|---|--|--------|--------------------------------|
| * | 8 DigiCert_High_Assurance_EV_Roo | t_CAcrt | Info | Remove | |
| 5 | 9 DigiCert_Trusted_Root_G4.crt | | Info | Remove | |
| | 10 GeoTrust_Global_CA.crt | | Info | Remove | |
| <u>} </u> | 11 GeoTrust_Primary_Certification_A | uthority.crt | Info | Remove | |
| | 12 GeoTrust_Primary_Certification_A | uthorityG2.crt | info | Remove | |
| | 13 GeoTrust_Primary_Certification_A | uthorityG3.crt | Info | Remove | |
| | 14 GeoTrust_Universal_CA.crt | | Info | Remove | |
| | 15 GeoTrust_Universal_CA_2.crt | | Info | Remove | |
| ê. 1 | 16 Go_Daddy_Class_2_CA.pem | | Info | Remove | |
| | 17 Go_Daddy_Root_Certificate_Auth | orityG2.pem | Info | Remove | |
| | 18 VeriSign_Class_3_Public_Primary_0 | Certification_AuthorityG4.crt | info | Remove | |
| | 19 VeriSign_Class_3_Public_Primary_1 | Certification_Authority_+_G5.crt | Info | Remove | |
| | 20 VeriSign_Universal_Root_Certifica | tion_Authority.crt | Info | Remove | |
| | 21 Verisign_Class_1_Public_Primary_0 | Certification_Authority.crt | Info | Remove | |
| | 22 Verisign_Class_1_Public_Primary_0 | Certification_AuthorityG3.crt | Info | Remove | |
| | 23 Verisign_Class_2_Public_Primary_0 | Certification_AuthorityG2.crt | Info | Remove | |
| | 24 Verisign_Class_2_Public_Primary_0 | Certification_AuthorityG3.crt | Info | Remove | |
| | 25 Verisign_Class_3_Public_Primary_0 | Certification_Authority.crt | Info | Remove | |
| | 26 Verisign_Class_3_Public_Primary_0 | Certification_AuthorityG3.crt | Info | Remove | |
| | 27 thawte_Primary_Root_CA.crt | | Info | Remove | |
| | 28 thawte_Primary_Root_CAG2.cr | t | Info | Remove | |
| | 29 thawte_Primary_Root_CAG3.cr | t | Info | Remove | |

Figure 2-14. SSL Page (2 of 2)

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.

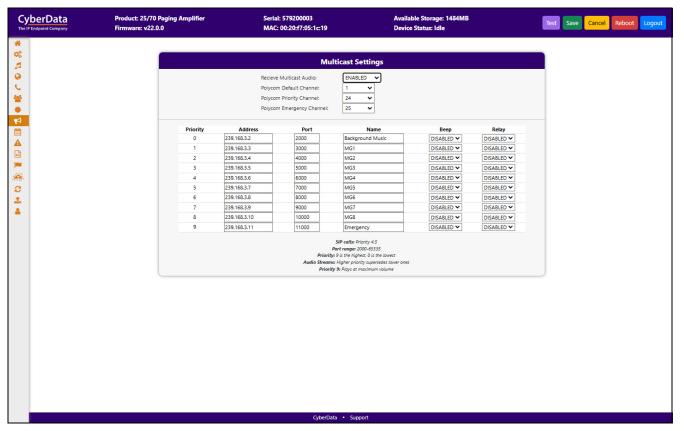
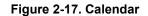


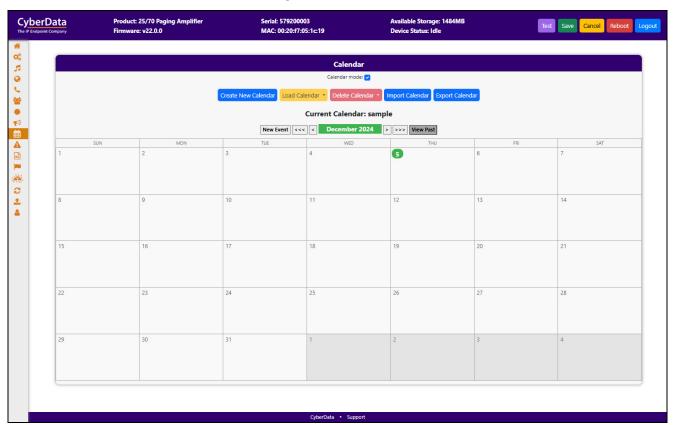
Figure 2-15. Multicast Page

2.10 Schedules

| CyberData The IP Endpoint Company | Product: 25/70 Pagi Firmware: v22.0.0 | ing Amplifier | Serial: 579200003 MAC: 00:20:f7:05:1c:19 | Available Storage: Device Status: Idle | | Test Save Cancel | Reboot Logout |
|--------------------------------------|--|---------------|---|---|----------------|------------------|---------------|
| * | | | | Schedule | | | |
| ,# 0 | | | | alendar mode: | | | |
| | | Crea | te New Schedule Load Schedule - | Delete Schedule Import Schedule | xport Schedule | | |
| • | | | Current | Schedule: Default | | | |
| # | Event Name | Days | Time | Audio File PG | ROUP | New Event | |
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Figure 2-16. Schedules Page





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.

| CyberData The IP Endpoint Company | Product: 25/70 Paging Amplifier Firmware: v22.0.0 | Serial: 579200003 MAC: 00:20:f7:05:1c:19 | Available Storage: 1484MB Device Status: Idle | Test Save Cancel Reboot Logout |
|--------------------------------------|--|---|--|--------------------------------|
| * | | | | |
| ос г | | Fault De | tection Settings | |
| 0 | | Message Playbacks: | 0 | |
| 6 | | Play Message Locally: | DISABLED V | |
| * | | Call to Extension: | DISABLED V | |
| • | | Dial Out Extension: | 204 | |
| 1 | | Dial Out ID: | id204 | |
| m | | Multicast Audio: | DISABLED 🗸 | |
| | | Multicast Address: | 239.168.3.1 | |
| | | Multicast Port: | 8888 | |
| | | Polycom Paging: Polycom Paging Channel: | DISABLED V | |
| .544 | | Polycom Paging Channel: | | |
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Figure 2-18. Fault Page

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.

| CyberData The IP Endpoint Company | Product: 25/70 Paging Amplifier Firmware: v22.0.1b4port | Serial: 579000071 MAC: 00:20:f7:05:72:04 | Available Storage: 1381Ml Device Status: Idle | В | Test Save Cancel Reboot Logout |
|--------------------------------------|--|---|--|------------------|--------------------------------|
| * * | | Audio Fil | 25 | | |
| 27 Q | 0: | Construction of the | efault Choose File No file chosen | | |
| e. | | | | Play Save Delete | |
| * • | | | efault Choose File No file chosen | Play Save Delete | |
| | 2: | | efault Choose File No file chosen | Play Save Delete | |
| ** | 3: | Currently set to: d | efault Choose File No file chosen | Play Save Delete | |
| | 4: | Currently set to: d | efault Choose File No file chosen | Play Save Delete | |
| | 5: | Currently set to: d | efault Choose File No file chosen | Play Save Delete | |
| ※ | 6: | Currently set to: d | efault Choose File No file chosen | Play Save Delete | |
| C | 7: | Currently set to: d | efault Choose File No file chosen | Play Save Delete | |
| 1 4 | 8: | Currently set to: d | efault Choose File No file chosen | Play Save Delete | |
| • | 9: | Currently set to: d | efault Choose File No file chosen | Play Save Delete | |
| | Audio Test: | Currently set to: d | efault Choose File No file chosen | Play Save Delete | |
| | Dot: | Currently set to: d | efault Choose File No file chosen | Play Save Delete | |
| | Night Ring: | Currently set to: d | efault Choose File No file chosen | Play Save Delete | |
| | Page Tone: | Currently set to: d | efault Choose File No file chosen | Play Save Delete | |
| | Rebooting: | Currently set to: d | efault Choose File No file chosen | Play Save Delete | |
| | Restoring Default: | Currently set to: d | efault Choose File No file chosen | Play Save Delete | |
| | Ringback Tone: | | efault Choose File No file chosen | Play Save Delete | |
| | Ring Tone: | | efault Choose File No file chosen | Play Save Delete | |
| | Sensor Triggered: | | efault Choose File No file chosen | | |
| | | | | | |
| | Stored Message File Not Found: | | efault Choose File No file chosen | Play Save Delete | |
| | Your IP Address Is: | | efault Choose File No file chosen | Play Save Delete | |
| | Enter Zone: | Currently set to: d | efault Choose File No file chosen | Play Save Delete | |
| | Confused: | Currently set to: d | efault Choose File No file chosen | Play Save Delete | |

Figure 2-19. Audiofiles Page (1 of 3)

Figure 2-20. Audiofiles Page (2 of 3)

| | Menu Au | dio Files | | | |
|--------------------------------|-------------------|-----------|----------------------------|------------------|---|
| Cancel: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| Currently Playing: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| Invalid Entry: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| Page: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| Play Stored Message: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| Pound (#): | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| Press: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| Stored Message: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| To: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| Enter Code: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| Enter Recording Security Code: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| Invalid Code: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| Press Start To Record Message: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| Or: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| Record Message Prompt: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| Save Record Message Prompt: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| Assign Zone To Message: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| Message Saved Succesfully: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| Message Not Saved Succesfully: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |
| You Recorded: | Currently set to: | default | Choose File No file chosen | Play Save Delete | e |

Figure 2-21. Audiofiles Page (3 of 3)

| Recorded Messages | | | | | |
|----------------------------|----------------|---------------------|--|--|--|
| Choose File No file chosen | Upload Message | Delete All Messages | | | |
| | Bells | | | | |
| Choose File No file chosen | Upload Bell | Delete All Bells | | | |

2.13 Events

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

Figure 2-22. Events Page

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

Figure 2-23. InformaCast enabled Device

| InformaCast Start Events: | DISABLED | ~ |
|---------------------------|----------|---|
| InformaCast Stop Events: | DISABLED | ~ |

2.13.1 Example Packets for Events

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

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

Here are example packets for every event:

```
POST xmlparse engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 197
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData VoIP Device' MAC='0020f70015b6'>
<event>APPLICATION STARTED</event>
</cyberdata>
POST xmlparse engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 199
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData VoIP Device' MAC='0020f70015b6'>
<event>HEARTBEAT</event>
</cyberdata>
POST xmlparse_engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 196
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData VoIP Device' MAC='0020f70015b6'>
<event>BUTTON</event>
</cyberdata>
POST xmlparse engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 201
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData VoIP Device' MAC='0020f70015b6'>
<event>CALL ACTIVE</event>
</cyberdata>
```

```
POST xmlparse engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 205
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData VoIP Device' MAC='0020f70015b6'>
<event>CALL TERMINATED</event>
</cyberdata>
POST xmlparse engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 197
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData VoIP Device' MAC='0020f70015b6'>
<event>RINGING</event>
</cyberdata>
POST xmlparse engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 234
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData VoIP Device' MAC='0020f70015b6'>
<event>MULTICAST START
<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>
```

2.14 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 <u>https://www.cyberdata.net/pages/terminus</u>.

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

Figure 2-24. Terminus Page

| CyberData The IP Endpoint Company | Product: 25/70 Paging Amplifier Firmware: v22.0.0 | Serial: 579200003 MAC: 00:20:f7:05:1c:19 | Available Storage: 1485MB Device Status: Idle | Test Save Cancel Reboot Logout |
|--------------------------------------|--|---|--|--------------------------------|
| 8 8 9 9 | | | nfiguration | |
| し で 参 | | | ninus Service: ENABLED V | |
| | | Multicast Address: 23 Time to Live: 25 Discovery Interval: 60 | | |
| | | Lock Down Mode: Dis | n Settings | |
| 1 | | Relay: N | o Action | |
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2.15 Autoprovisioning

Enabling autoprovisioning allows the device to download provisioning files from a server. It defaults to using DHCP, with options configured in dhcpd.conf on the DHCP server. The file name is <mac address>.xml and if not found, 00000cd.xml.

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

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

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

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

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

Figure 2-25. Autoprovisioning Page

| Image: Service Control of Control o | CyberData The IP Endpoint Company | Product: 25/70 Paging Amplifier Firmware: v22.0.0 | Serial: 579200003 MAC: 00:20:f7:05:1c:19 | Available Storage: 1485MB Device Status: Idle | Test Save Cancel Reboot Logout |
|---|--------------------------------------|---|---|--|--------------------------------|
| | The IP Endpoint Company | Firmware: v22.0.0 Autoprov: Autoprov Server: Autoprov Filename: Use ttp: Verify Server Certificate: Usermame: Password: Autoprov autoupdate: Autoprov autoupdate: Autoprov autoupdate: Autoprov when idie: | MAC: 00:20:77:05:11:19 | Device Status: Idle 2024-12-05 15:40-43 Autoprovid: no autoprovid triggers. Exiting 2024-12-05 15:40-50 Autoprovisioning on boot 2024-12-06 15:40-50 Autoprovisioning on boot 2024-12-06 15:40-50 Autoprov looking for 00207/051c19.xml at http://10.0.0242 2024-12-06 15:40-50 Autoprov downloading http://0.0.0242/020207051c19.xml 2024-12-05 15:40-55 Autoprov downloading http://0.0.0242/020207051c19.xml 2024-12-05 15:40-55 Autoprov Processing asil certificates 2024-12-06 15:40-55 Autoprov Processing ssil certificates 2024-12-06 15:40-55 Autoprov: Processing asil certificates | |
| CyberData • Support | | | | | |

2.16 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



Figure 2-26. Firmware Page

| CyberData The IP Endpoint Company | Product: 25/70 Paging Amplifier Firmware: v22.0.0 | Serial: 579200003 MAC: 00:20:f7:05:1c:19 | Available Storage: 1485MB Device Status: Idle | Test Save Cancel Reboot Logout |
|--------------------------------------|--|---|--|--------------------------------|
| * 03 | | r : | Catting | |
| | | Firmware Firmware Ver | | |
| e | | Choose File No file | chosen | |
| * | | Upload F | Progress | |
| | | Upload Post | Processing | |
| | | Status M | lessages | |
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| | | CyberData • S | upport | |

2.17 Admin

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

| Data nt Company | Product: 25/70 Paging Amplifier Firmware: v22.0.0 | Serial: 579200003 MAC: 00:20:f7:05:1c:19 | Available Storage: 1485MB Device Status: Idle | Test Save Cancel Reboot |
|------------------------|--|--|--|---|
| | Admin Settings | Logging S | Settings | Configuration Settings |
| | | | Partition 2 | v22.0.0 |
| Username: Password: | admin | | Destition 2 | v22.0.0 |
| Confirm Password: | | In the second se | Booting Partit | |
| Confirm Password: | | Get Application Log | Remove Application Log Rest | ore Default Config Restore Default Certificates |
| | Statistics | Get Network Log | Remove Network Log | Import Config Export Config |
| Storage: | 1485MB | Get All Logs | Remove All Logs | |
| Boot Count: | 1153 | Oct Air Edgs | hemove Air Eogs | Boot From Other Partition |
| Reboot Count: | 214 | | | |
| Uptime: | up 11 minutes | Retrieving the log files may take | some time due to their size. | |
| | | Add New User Delete All Uers | Import Users Export Users | |
| Username | Home Device Network SIP | | | Firmware Admin Amplifier Terminus |
| Username | Home Device Network SIP | | e Fault Audiofiles Events Autoprov | Firmware Admin Amplifier Terminus |
| Username | Home Device Network SIP | P PGROUPS SSL Multicast Schedule | ewer | Firmware Admin Amplifier Terminus |
| Username | Home Device Network SiP | P PGROUPS SSL Multicast Schedule | ewer | Firmware Admin Amplifier Terminus |
| Username | Home Device Network SIP | P PGROUPS SSL Multicast Schedule | ewer | Firmware Admin Amplifier Terminus |
| Username | Home Device Network SIP | P PGROUPS SSL Multicast Schedule | ewer | Firmware Admin Amplifier Terminus |
| Username | Home Device Network SIP | P PGROUPS SSL Multicast Schedule | ewer | Firmware Admin Amplifier Terminus |
| Username | Home Device Network SIP | P PGROUPS SSL Multicast Schedule | ewer | Firmware Admin Amplifier Terminus |
| Username | Home Device Network SIP | P PGROUPS SSL Multicast Schedule | ewer | Firmware Admin Amplifier Terminus |
| Username | Home Device Network SiP | P PGROUPS SSL Multicast Schedule | ewer | Firmware Admin Amplifier Terminus |
| Username | Home Device Network SIP | P PGROUPS SSL Multicast Schedule | ewer | Firmware Admin Amplifier Terminus |
| Username | Home Device Network SIP | P PGROUPS SSL Multicast Schedule | ewer | Firmware Admin Amplifier Terminus |

Figure 2-27. Admin Page

2.18 Command Interface

Some functions on the device can be activated using simple POST commands to the web interface. The examples in Table 2-1 use the free unix utility, **wget commands**. However, any program that can send HTTP POST commands to the device should work.

2.18.1 Command Interface Post Commands

The commands in Table 2-1 require an authenticated session (a valid username and password to work).

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

Table 2-1. Command Interface Post Commands

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

Appendix A: Troubleshooting/Technical Support

A.1 Contact Information

Contact

CyberData Corporation 3 Justin Court Monterey, CA 93940 USA <u>www.CyberData.net</u> Phone: 831-373-2601 Fax: 831-373-4193

Sales Sales 831-373-2601, Extension 334

TechnicalThe fastest way to get technical support for your VoIP product is to submit a VoIP TechnicalSupportSupport 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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