



# *SIP Call Button Operations Guide*

Part #011049, 011491

Document Part #932062A  
for Firmware Version 22.0.0

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**SIP Call Button Operations Guide 932062A**  
**Part # 011049, 011491**

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Technical Support

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

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

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

Email: [support@cyberdata.net](mailto:support@cyberdata.net)

Fax: (831) 373-4193

Company and product information is at [www.cyberdata.net](http://www.cyberdata.net).



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# Revision Information

Revision 932062A, which corresponds to firmware version 22.0.0, was released on November 19, 2024.

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## Pictorial Alert Icons

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

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## 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.

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# 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 SIP Call Button enclosure is not rated for any AC voltages!**

 <p>GENERAL ALERT</p>	<p><b>Warning</b></p> <p><i>Electrical Hazard:</i> This product should be installed by a licensed electrician according to all local electrical and building codes.</p>
 <p>GENERAL ALERT</p>	<p><b>Warning</b></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>
 <p>GENERAL ALERT</p>	<p><b>Warning</b></p> <p>The PoE connector is intended for intra-building connections only and does not route to the outside plant.</p>

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# Abbreviations and Terms

<b>Abbreviation or Term</b>	<b>Definition</b>
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

# Contents

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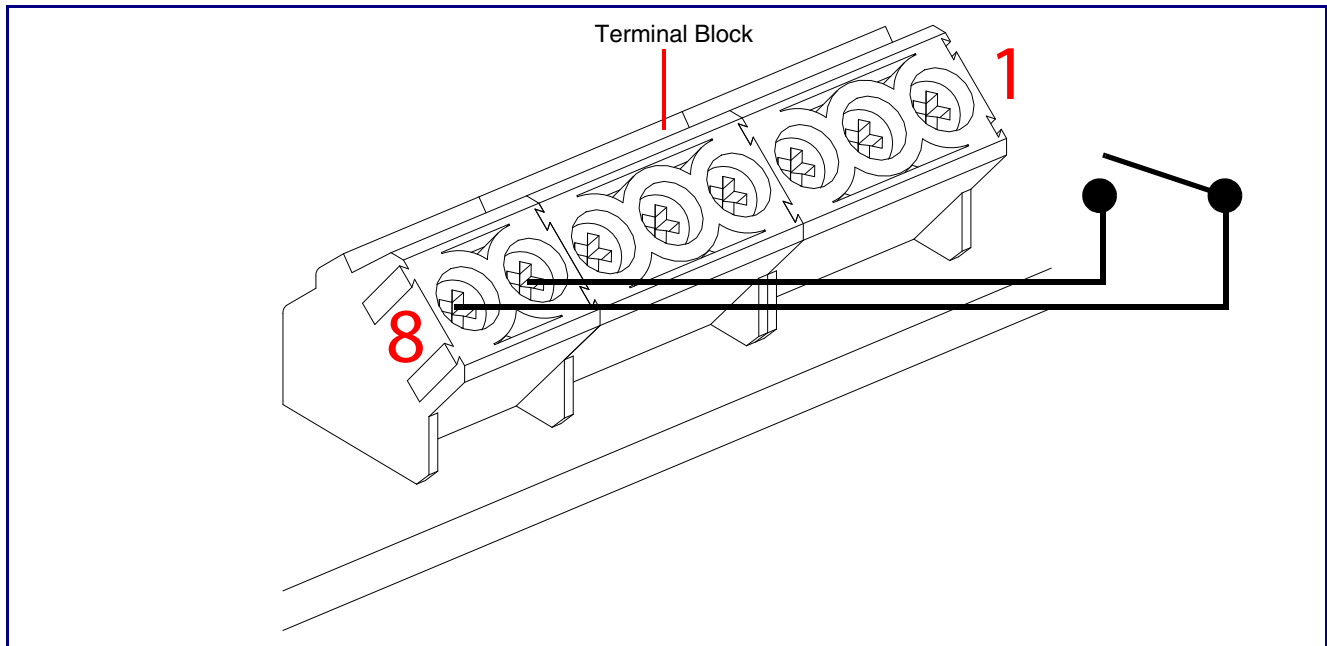
<b>Chapter 1 Installing the SIP Call Button</b>	<b>1</b>
1.1 Remote Switch Connection .....	1
1.1.1 Using the On-Board Relay .....	2
1.2 Wiring the Circuit .....	3
1.2.1 Devices Less than 1A at 30 VDC .....	3
1.2.2 Network Dual Door Strike Relay Wiring Diagram with External Power Source .....	4
1.2.3 Network Dual Door Strike Relay Wiring Diagram Using PoE+ .....	5
1.3 Activity and Link LEDs .....	6
1.3.1 Verifying the Network Connectivity and Data Rate .....	6
1.4 Call Button and the Call Button LED .....	7
1.4.1 Calling with the The Call Button .....	7
1.4.2 Call Button LED Function .....	7
<b>Chapter 2 Configure the Device</b>	<b>8</b>
2.1 Home Page .....	8
2.2 Restoring Defaults .....	9
2.3 Device .....	12
2.4 Network .....	13
2.5 SIP (Session Initiation Protocol) .....	14
2.5.1 Dial Out Extension Strings and DTMF Tones (using rfc2833) .....	14
2.5.2 Point-to-Point Configuration .....	15
2.6 SSL .....	16
2.7 Sensor .....	19
2.8 Strobe .....	20
2.9 Audiofiles .....	21
2.10 Events .....	23
2.10.1 Example Packets for Events .....	24
2.11 Remote Relay .....	27
2.12 Terminus .....	28
2.13 Autoprovisioning .....	29
2.14 Firmware .....	30
2.15 Admin .....	31
2.16 Command Interface .....	32
2.16.1 Command Interface Post Commands .....	32
<b>Appendix A Troubleshooting/Technical Support</b>	<b>33</b>
A.1 Contact Information .....	33
A.2 Warranty and RMA Information .....	33
<b>Index</b>	<b>34</b>

# 1 Installing the SIP Call Button




## 1.1 Remote Switch Connection

Wiring pins 7 and 8 of the terminal block to a switch will initiate a SIP call when the switch is closed. The call will go to the extension specified as the dial out extension on the **SIP** page.

**Figure 1-1. Remote Switch Connection**



## 1.1.1 Using the On-Board Relay

 <p>GENERAL ALERT</p>	<p><b>Warning</b></p> <p><i>Electrical Hazard:</i> This product should be installed by a licensed electrician according to all local electrical and building codes.</p>
 <p>GENERAL ALERT</p>	<p><b>Warning</b></p> <p><i>Electrical Hazard:</i> The relay contacts are dry and provided for a normally open and momentarily closed configuration. Neither the alternate power input nor PoE power can be used to drive a door strike.</p>
 <p>GENERAL ALERT</p>	<p><b>Warning</b></p> <p><i>Electrical Hazard:</i> The relay does not support AC powered door strikes. Any use of this relay beyond its normal operating range can cause damage to the product and is not covered under our warranty policy.</p>

The device has a built-in relay that can be activated by a web configurable DTMF string that can be received from a VoIP phone supporting out of band (RFC2833) DTMF as well as a number of other triggering events. See the [Device Page](#) on the web interface for relay settings.

This relay can be used to trigger low current devices like LED strobes and security camera input signals as long as the load is not an inductive type and the relay is limited to a maximum of 1 Amp @ 30 VDC. Inductive loads can cause excessive “hum” and can interfere with or damage the unit’s electronics.

We highly recommend that inductive load and high current devices use our Network Dual Door Strike Relay (CD# 011375) (see [Section 1.2.2, "Network Dual Door Strike Relay Wiring Diagram with External Power Source"](#)).

This relay interface also has a general purpose input port that can be used to monitor an external switch and generate an event.

For more information on the sensor options, see the [Sensor Page](#) on the web interface.



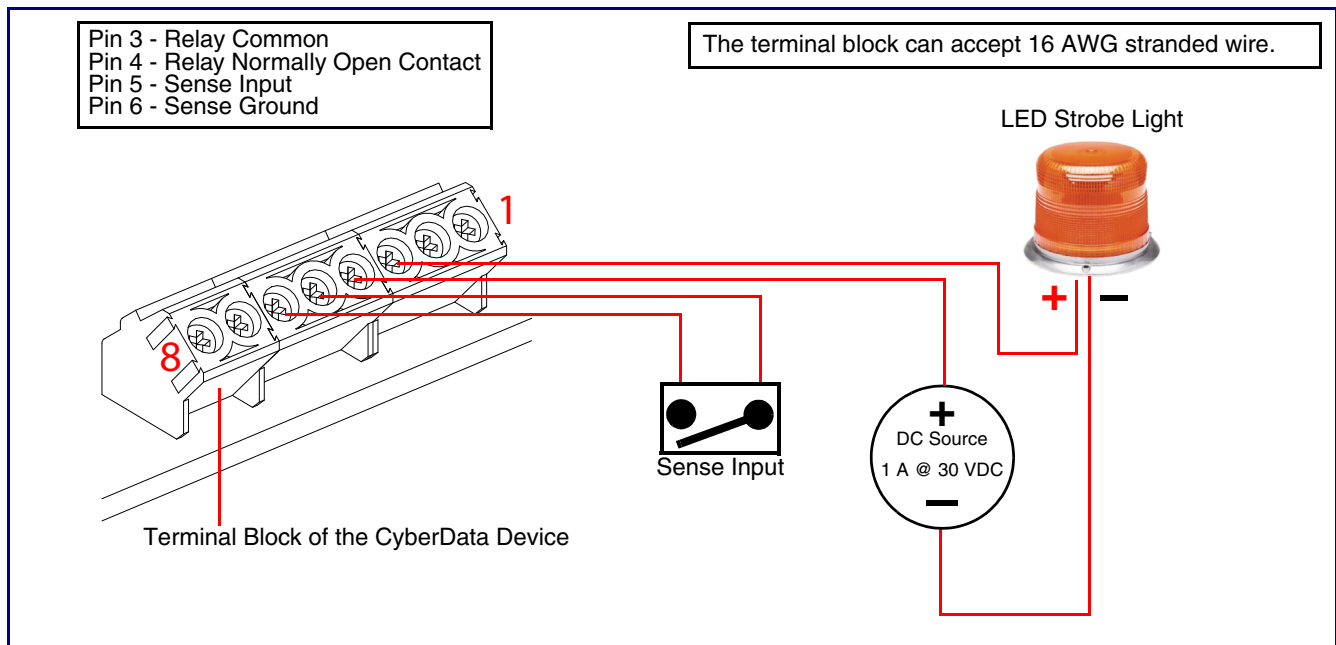
## 1.2 Wiring the Circuit

### 1.2.1 Devices Less than 1A at 30 VDC

If the power for the device is less than 1A at 30 VDC and is not an inductive load, then see [Figure 1-2](#) for the wiring diagram.

When configuring with an inductive load, please use an intermediary relay with a High PIV Ultrafast Switching Diode. We recommend using the Network Dual Door Strike Relay (CD# 011375) (see [Section 1.2.2, "Network Dual Door Strike Relay Wiring Diagram with External Power Source"](#)).


**Figure 1-2. Devices Less than 1A at 30 VDC**



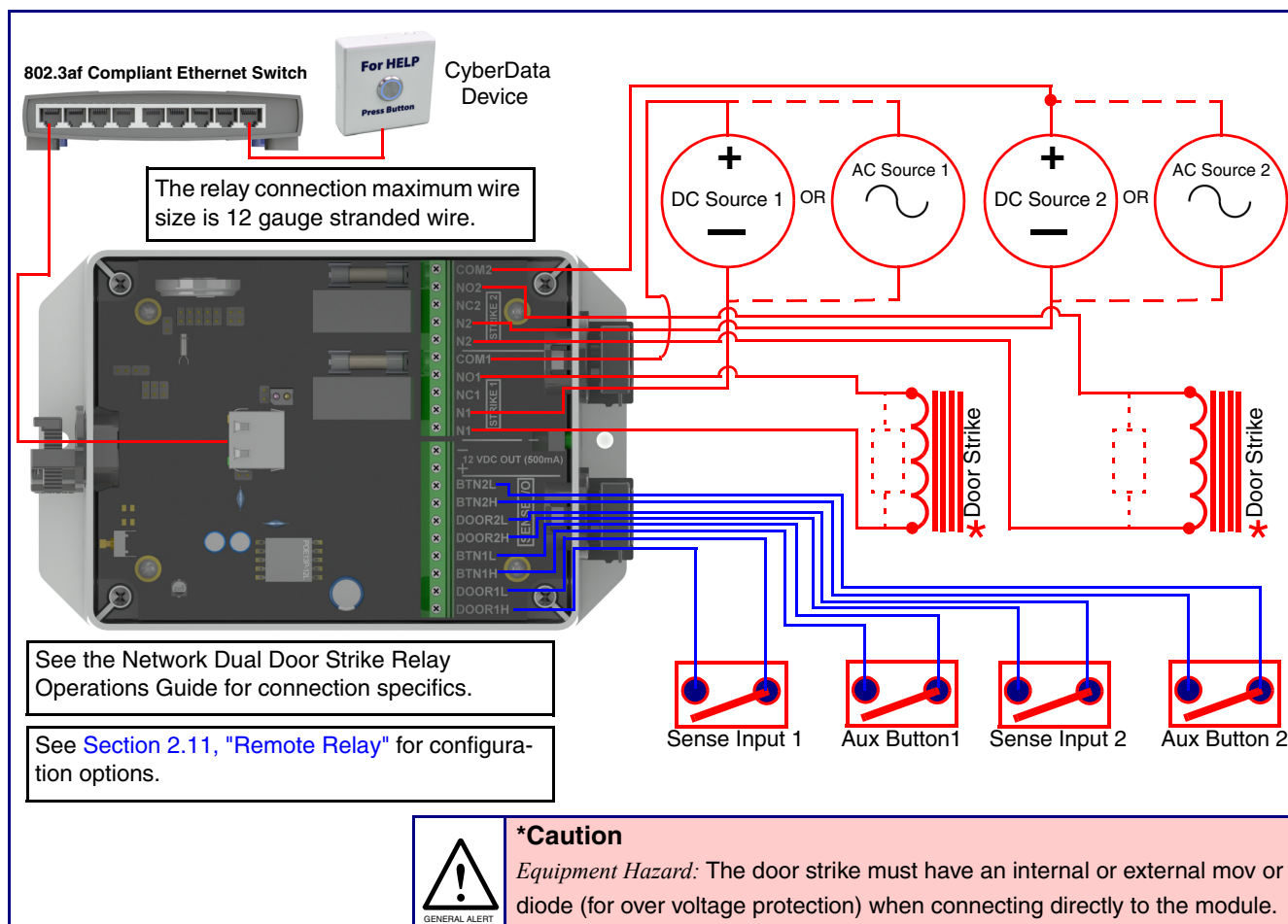
## 1.2.2 Network Dual Door Strike Relay Wiring Diagram with External Power Source

For wiring an electronic door strike to work over a network, we recommend the use of our external Network Dual Door Strike Relay (CD# 011375).

This product provides an easier method of connecting standard door strikes as well as AC and higher voltage devices. See [Figure 1-3](#) and [Figure 1-4](#) for the wiring diagrams.

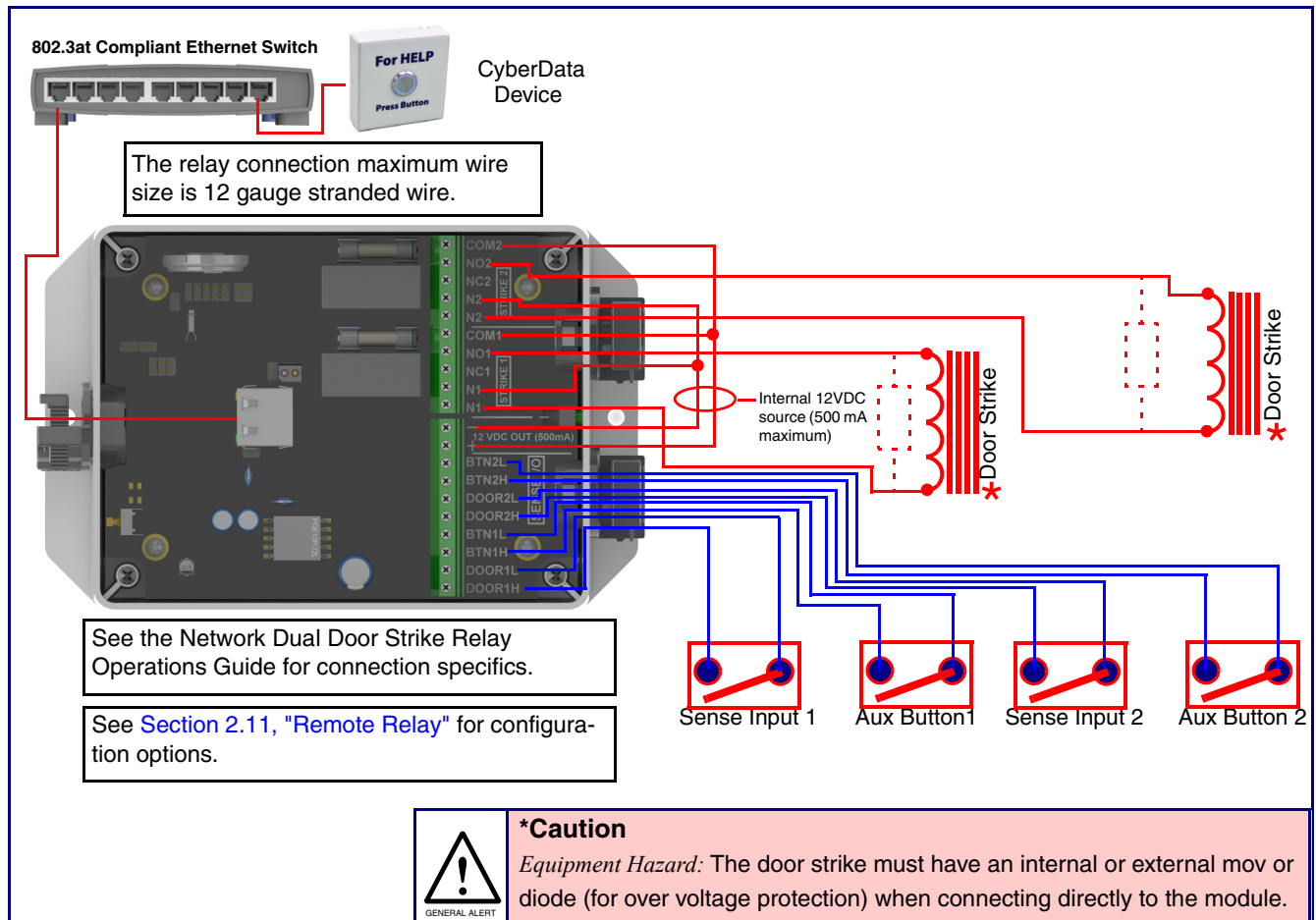
 GENERAL ALERT	<p><b>Warning</b></p> <p><i>Electrical Hazard:</i> Hazardous voltages may be present. No user serviceable part inside. Refer to qualified service personnel for connecting or servicing.</p>
--	--

**Figure 1-3. Network Dual Door Strike Relay Wiring Diagram with External Power Source**



## 1.2.3 Network Dual Door Strike Relay Wiring Diagram Using PoE+

Figure 1-4. Network Dual Door Strike Relay Wiring Diagram Using PoE+



If you have questions about connecting door strikes or setting up the web configurable options, please contact our support department at the following website:

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

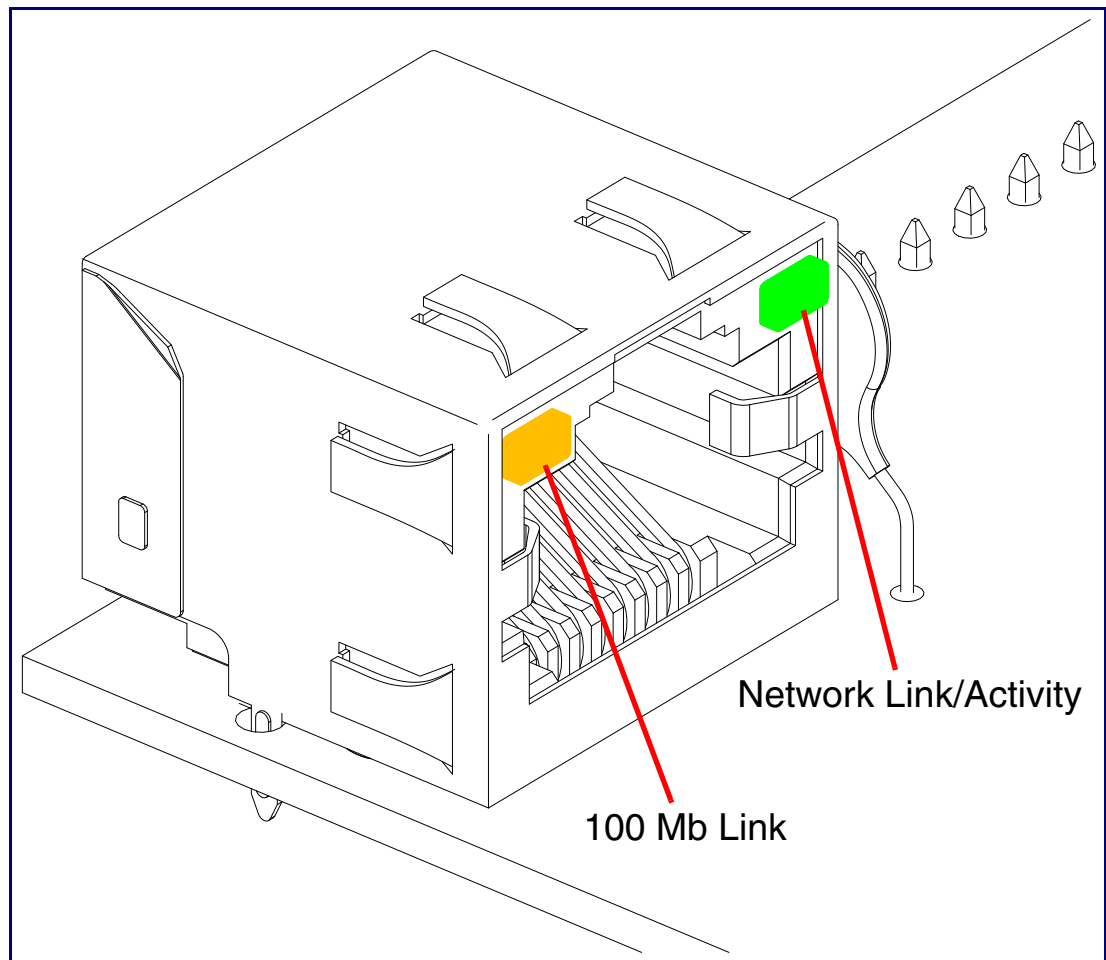
## 1.3 Activity and Link LEDs

### 1.3.1 Verifying the Network Connectivity and Data Rate

When you plug in the Ethernet cable or power supply to the Intercom, the following occurs:

- The square, **GREEN Network Link/Activity** LED blinks when there is network activity (see [Figure 1-5](#)).
- The square, **AMBER 100 Mb Link** LED above the Ethernet port indicates that the network 100 Mb connection has been established (see [Figure 1-5](#)).

**Figure 1-5. Activity and Link LED**



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## 1.4 Call Button and the Call Button LED

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### 1.4.1 Calling with the The Call Button

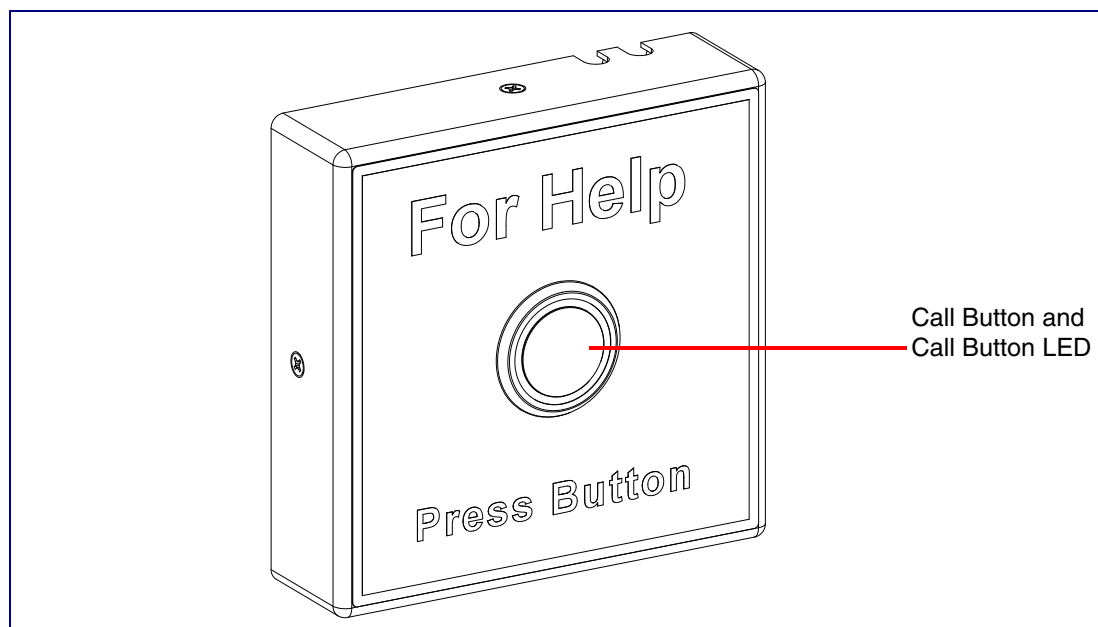
- You may initiate a call by pressing the Call Button.
- An active call is indicated by the Call Button LED blinking at one second intervals.
- The device automatically answers an incoming call.
- You can press the Call Button to terminate an active call.

---

### 1.4.2 Call Button LED Function

- Upon initial power or reset, the Call Button LED will illuminate.
- On boot, the Call Button LED will flash ten times a second while setting up the network and downloading autoprovisioning files.
- The device “autoprovisions” by default, and the initial process may take several minutes as the device searches for and downloads updates. The Call Button LED will blink during this process. During the initial provisioning, or after the factory defaults have been reset, the device may download firmware twice. The device will blink, remain solid for 10 to 20 seconds, and then resume blinking. This process will take longer if there are many audio files downloading.
- When the software has finished initialization, the Call Button LED will blink twice.
- When a call is established (not just ringing), the Call Button LED will blink.
- On the **Device Page** (see [Section 2.3, "Device"](#)), there is an option called **Button Lit When Idle**. This option sets the normal state for the indicator LED. The Call Button LED will still blink during initialization and calls.
- The Call Button LED flashes briefly at the beginning of RTFM mode.

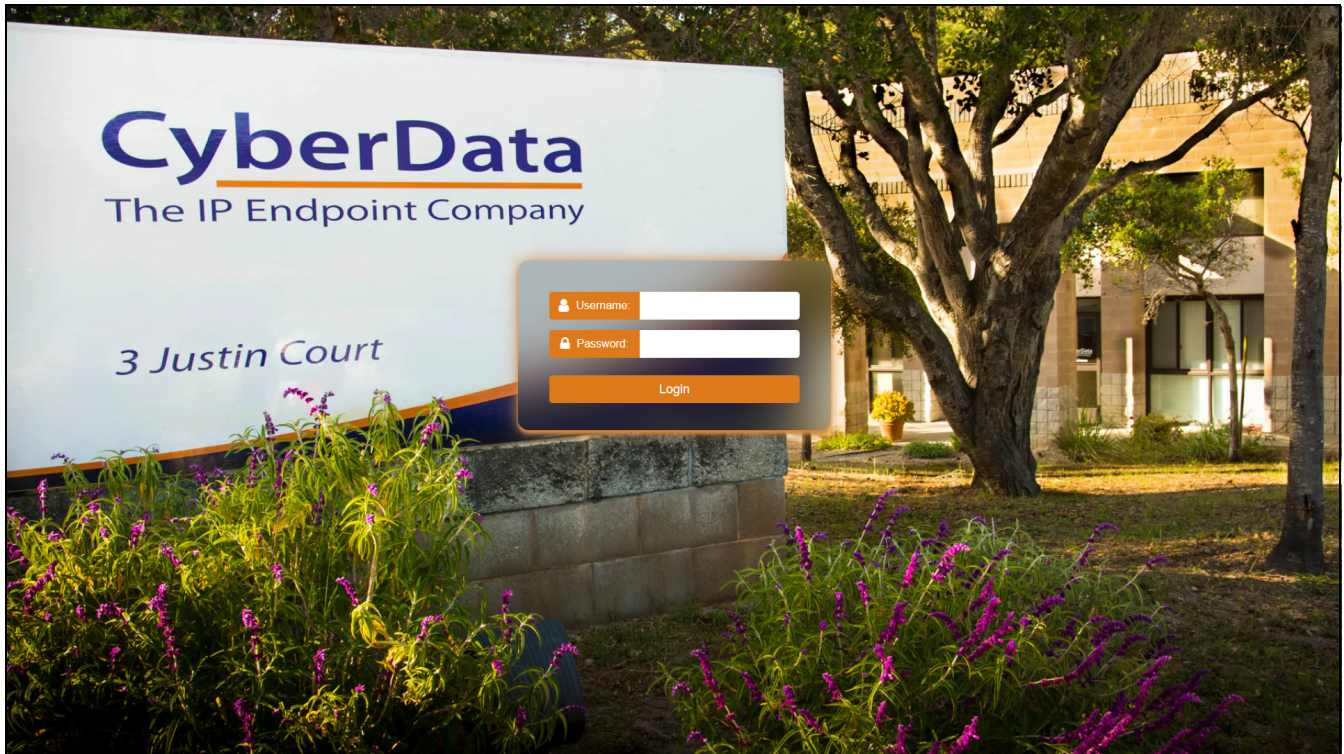
**Figure 1-6. Call Button and Call Button LED**



# 2 Configure the Device

## 2.1 Home Page

Figure 2-1. Log In Page



1. Open your browser to the SIP Call Button IP address.

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

**Note** Make sure that the PC is on the same IP network as the SIP Call Button.

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

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

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

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

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

Web Access Username: **admin**

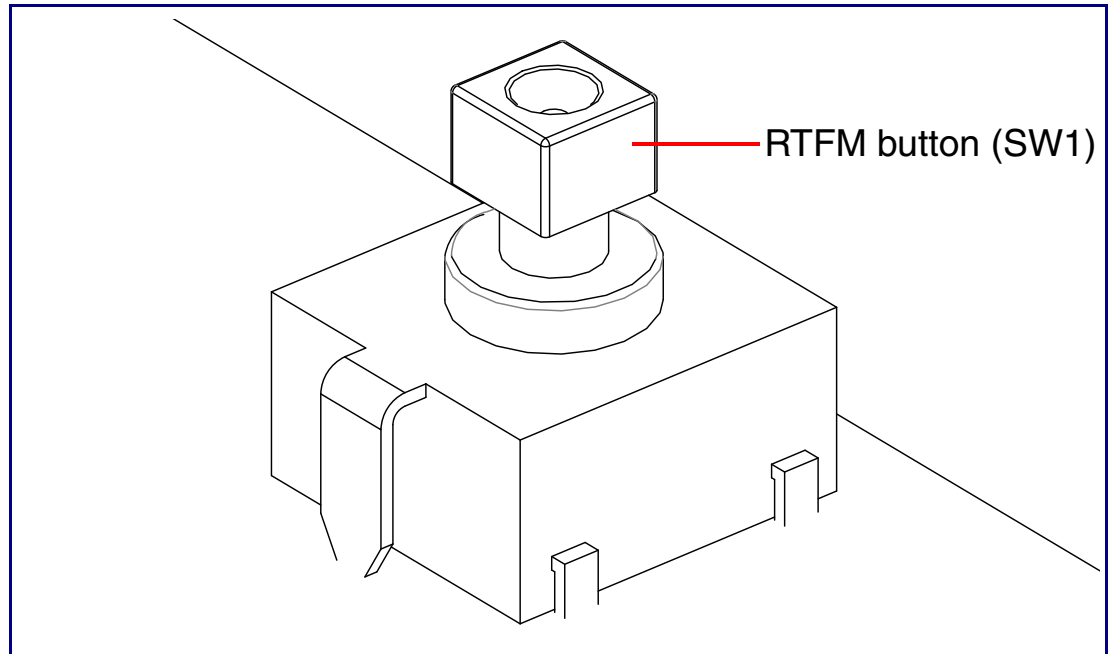
Web Access Password: **admin**

## 2.2 Restoring Defaults

The RTFM button is located on the back of the device.

Holding the RTFM button (Figure 2-2), for approximately five seconds restores the device to its factory defaults (Table 2-1), defaulting to DHCP to obtain an IP address, or using 192.168.1.23 if a DHCP server is not present.

**Figure 2-2. RTFM Button (SW1)**



**Table 2-1. Factory Default Settings**

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

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

Figure 2-3. Home Page

The screenshot displays the home page of a CyberData device. At the top, a dark purple header contains the CyberData logo and company name on the left, and device information on the right: Product: Call Button, Serial: 049204479, Available Storage: 1485MB, Firmware: v22.0.0, MAC: 00:20:f7:05:2a:97, and Device Status: Idle. A row of five buttons (Test, Save, Cancel, Reboot, Logout) is positioned to the right of the device information. A vertical sidebar on the left contains several icons for navigation. The main content area is divided into five panels: Device Configuration, Network Status, SIP Registration, Sensor Status, and System Configuration. Each panel displays key device parameters and their current states.

Device Configuration	
Serial Number	049204479
Mac Address	00:20:f7:05:2a:97
Firmware Version	v22.0.0
Partition 2	v22.0.0
Partition 3	v22.0.0
Booting Partition	partition 3

Network Status	
IP Address Protocol	DHCP
IP Address	10.10.0.14
Subnet Mask	255.0.0.0
Default Gateway	10.0.0.1
DNS Server 1	10.0.1.56
DNS Server 2	

SIP Registration	
SIP Mode:	<b>Enabled</b>
Primary Server:	Not registered
Backup Server 1:	Not registered
Backup Server 2:	Not registered
Nighthringer Server:	Not registered

Sensor Status	
Relay Status:	Locked
Door Status:	Closed
Intrusion:	Inactive
RGB Strobe:	Installed

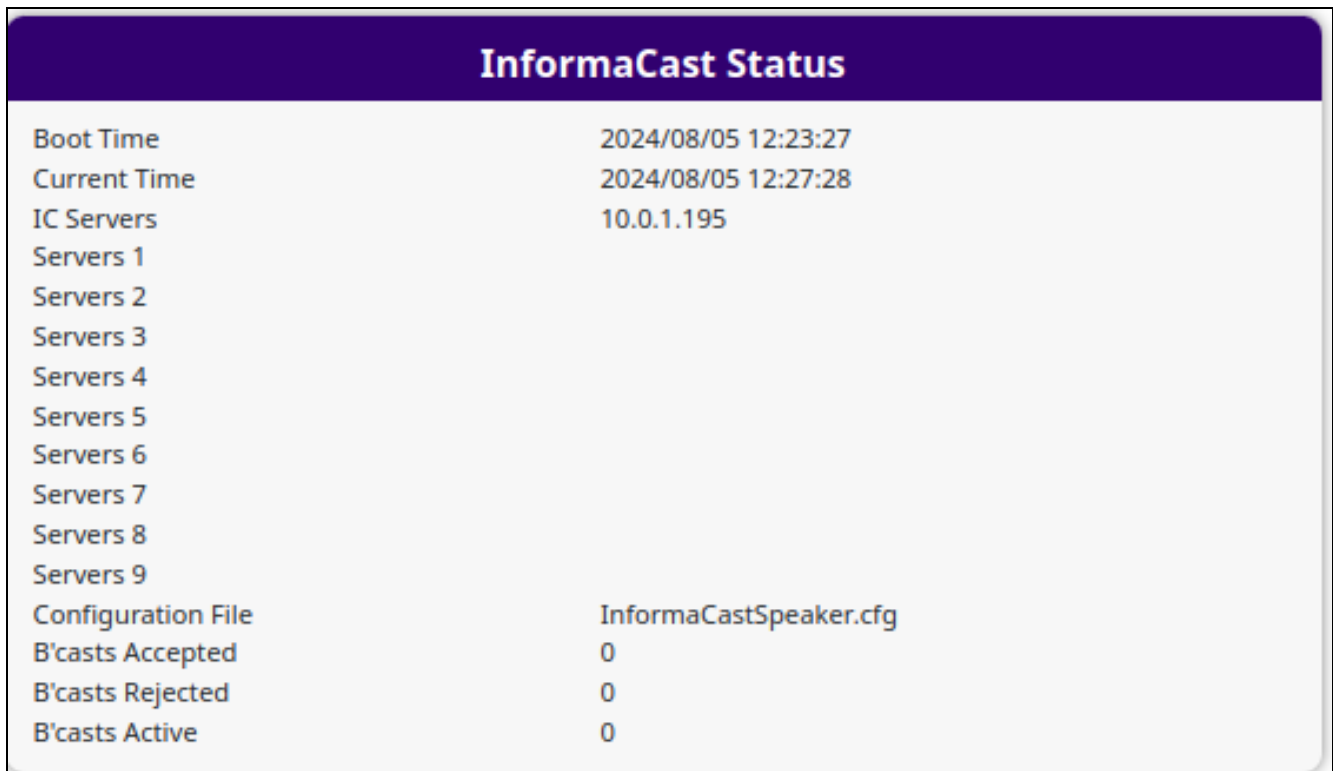
System Configuration	
SIP Mode:	<b>Enabled</b>
Event Mode:	<b>Disabled</b>

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

**Figure 2-4. InformaCast enabled Device**



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

## 2.3 Device

Figure 2-5. Device Page

**CyberData** The IP Endpoint Company

Product: Call Button  
Firmware: v22.0.0

Serial: 049204479  
MAC: 00:20:f7:05:2a:97

Available Storage: 1485MB  
Device Status: Idle

Test Save Cancel Reboot Logout

### Relay Settings

Control Relay with DTMF: ON

Code:

DTMF Pulse Code:

DTMF Pulse Code Duration:  seconds

DTMF Activation Code:

DTMF Deactivation Code:

Relay While Call Active: OFF

Relay On Button Press: OFF

Relay On Button Press Duration:  seconds

### Time Settings

NTP Server:

NTP Timezone:

Current Time: Wed, 06 Nov 2024 13:59:20

### Stored Message Recording

Stored Message Recording: DISABLED

Recording Security Code:

### Misc Settings

Device Name:

Button Hold Timeout:  millisecond (ms)

Button LED Lit when Idle: ON

Button LED Brightness:

Prevent Call Termination: OFF

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

Figure 2-6. InformaCast enabled Device

## InformaCast Settings

InformaCast Server:

## 2.4 Network

Figure 2-7. Network Page

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

**Top Bar:**

- CyberData The IP Endpoint Company
- Product: Call Button
- Serial: 049204479
- Available Storage: 1485MB
- Firmware: v22.0.0
- MAC: 00:20:f7:05:2a:97
- Device Status: Idle
- Buttons: Test, Save, Cancel, Reboot, Logout

**Network Status Panel:**

IP Address Protocol	DHCP
IP Address	10.10.0.14
Subnet Mask	255.0.0.0
Default Gateway	10.0.0.1
DNS Server 1	10.0.1.56
DNS Server 2	

**Network Settings Panel:**

- Addressing Mode: DHCP
- Hostname: SipDevice052a97
- IP Address: 10.10.10.10
- Subnet Mask: 255.0.0.0
- Default Gateway: 10.0.0.1
- DNS Server 1: 10.0.0.1
- DNS Server 2: 10.0.0.1
- DHCP Timeout: 60 seconds

**VLAN Settings Panel:**

- VLAN ID: 0
- VLAN Priority: 0

**Footer:** CyberData • Support

## 2.5 SIP (Session Initiation Protocol)

This page sets the options for phone calls. Configure up to 3 servers, with 2 acting as backup.

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

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

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

Figure 2-8. SIP Page

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

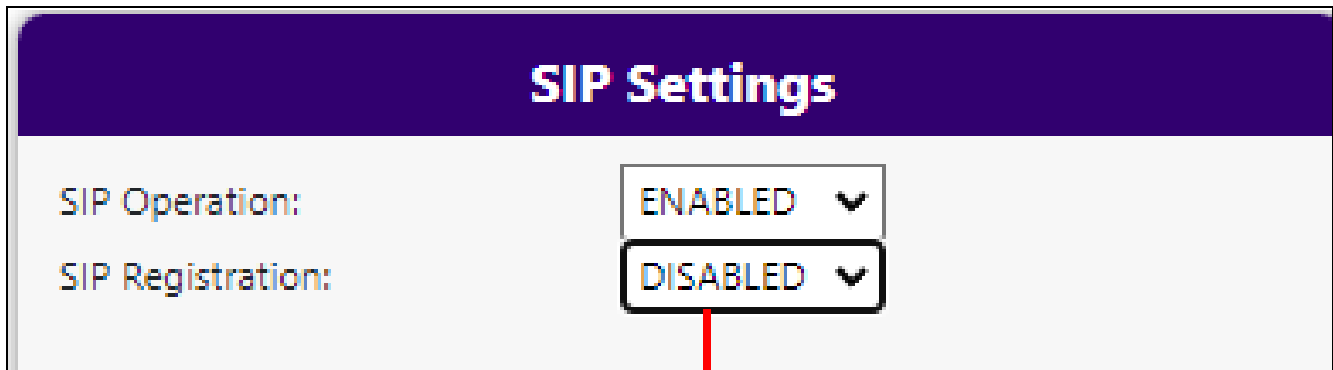
Outgoing calls support delayed DTMF (rfc2833) with the first comma pausing 2 seconds and subsequent commas pausing 1 second.

---

## 2.5.2 Point-to-Point Configuration

Dialing point-to-point allows the device to call and a single endpoint. All CyberData endpoints and many phones can use this option. To do this, enable **SIP Operation**, do not enable **SIP Registration**, and use the endpoint's IP address as the Dial Out extension. Delayed DTMF is supported. See [Figure 2-9](#).

**Figure 2-9. SIP Page Set to Point-to-Point Mode**



Device is set to NOT register with a SIP server

## 2.6 SSL

Figure 2-10. SSL Page

**CyberData** The IP Endpoint Company

Product: Call Button  
Firmware: v22.0.0

Serial: 049204479  
MAC: 00:20:f7:05:2a:97

Available Storage: 1485MB  
Device Status: Idle

Test Save Cancel Reboot Logout

---

### Web Server Certificate

```

subject=
countryName      = US
stateOrProvinceName = California
localityName     = Monterey
organizationName = Cyberdata
commonName       = 0020f7052a97
notBefore=Jul 11 18:31:02 2023 GMT
notAfter=Jul  8 18:31:02 2023 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       = 0020f7052a97
notBefore=Jul 11 18:31:02 2023 GMT
notAfter=Jul  8 18:31:02 2023 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       = 0020f7052a97
notBefore=Jul 11 18:31:02 2023 GMT
notAfter=Jul  8 18:31:02 2023 GMT
                    
```

Choose Files No file chosen

Import Autoprovisioning Certificate

Restore Autoprovisioning Certificate

Password (optional):

---

### List of Trusted CAs

Upload CA Certificate:  No file chosen

1	CyberData_CA.pem	<input type="button" value="Info"/>	<input type="button" value="Remove"/>
2	DigiCert_Assured_ID_Root_CA.crt	<input type="button" value="Info"/>	<input type="button" value="Remove"/>
3	DigiCert_Assured_ID_Root_G2.crt	<input type="button" value="Info"/>	<input type="button" value="Remove"/>
4	DigiCert_Assured_ID_Root_G3.crt	<input type="button" value="Info"/>	<input type="button" value="Remove"/>
5	DigiCert_Global_Root_CA.crt	<input type="button" value="Info"/>	<input type="button" value="Remove"/>

CyberData - Support

Figure 2-11. SSL Page

**CyberData**  
The IP Endpoint Company

Product: Call Button  
Firmware: v22.0.0
Serial: 049204479  
MAC: 00:20:f7:05:2a:97
Available Storage: 1485MB  
Device Status: Idle
Test
Save
Cancel
Reboot
Logout

6	DigiCert_Global_Root_G2.crt	<a href="#">Info</a>	<a href="#">Remove</a>
7	DigiCert_Global_Root_G3.crt	<a href="#">Info</a>	<a href="#">Remove</a>
8	DigiCert_High_Assurance_EV_Root_CA.crt	<a href="#">Info</a>	<a href="#">Remove</a>
9	DigiCert_Trusted_Root_G4.crt	<a href="#">Info</a>	<a href="#">Remove</a>
10	GeoTrust_Global_CA.crt	<a href="#">Info</a>	<a href="#">Remove</a>
11	GeoTrust_Primary_Certification_Authority.crt	<a href="#">Info</a>	<a href="#">Remove</a>
12	GeoTrust_Primary_Certification_Authority_-_G2.crt	<a href="#">Info</a>	<a href="#">Remove</a>
13	GeoTrust_Primary_Certification_Authority_-_G3.crt	<a href="#">Info</a>	<a href="#">Remove</a>
14	GeoTrust_Universal_CA.crt	<a href="#">Info</a>	<a href="#">Remove</a>
15	GeoTrust_Universal_CA_2.crt	<a href="#">Info</a>	<a href="#">Remove</a>
16	Go_Daddy_Class_2_CA.pem	<a href="#">Info</a>	<a href="#">Remove</a>
17	Go_Daddy_Root_Certificate_Authority_-_G2.pem	<a href="#">Info</a>	<a href="#">Remove</a>
18	VeriSign_Class_3_Public_Primary_Certification_Authority_-_G4.crt	<a href="#">Info</a>	<a href="#">Remove</a>
19	VeriSign_Class_3_Public_Primary_Certification_Authority_-_G5.crt	<a href="#">Info</a>	<a href="#">Remove</a>
20	VeriSign_Universal_Root_Certification_Authority.crt	<a href="#">Info</a>	<a href="#">Remove</a>
21	Verisign_Class_1_Public_Primary_Certification_Authority.crt	<a href="#">Info</a>	<a href="#">Remove</a>
22	Verisign_Class_1_Public_Primary_Certification_Authority_-_G3.crt	<a href="#">Info</a>	<a href="#">Remove</a>
23	Verisign_Class_2_Public_Primary_Certification_Authority_-_G2.crt	<a href="#">Info</a>	<a href="#">Remove</a>
24	Verisign_Class_2_Public_Primary_Certification_Authority_-_G3.crt	<a href="#">Info</a>	<a href="#">Remove</a>

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Figure 2-12. SSL Page

The screenshot shows the CyberData SSL configuration page. At the top, there is a header bar with the CyberData logo and the following information: Product: Call Button, Serial: 049204479, Available Storage: 1485MB, Firmware: v22.0.0, MAC: 00:20:f7:05:2a:97, and Device Status: Idle. On the right side of the header, there are buttons for Test, Save, Cancel, Reboot, and Logout. Below the header is a table listing certificates with their IDs, names, and actions.

ID	Certificate Name	Info	Remove
12	GeoTrust_Primary_Certification_Authority_-_G2.crt	Info	Remove
13	GeoTrust_Primary_Certification_Authority_-_G3.crt	Info	Remove
14	GeoTrust_Universal_CA.crt	Info	Remove
15	GeoTrust_Universal_CA_2.crt	Info	Remove
16	Go_Daddy_Class_2_CA.pem	Info	Remove
17	Go_Daddy_Root_Certificate_Authority_-_G2.pem	Info	Remove
18	VeriSign_Class_3_Public_Primary_Certification_Authority_-_G4.crt	Info	Remove
19	VeriSign_Class_3_Public_Primary_Certification_Authority_-_G5.crt	Info	Remove
20	VeriSign_Universal_Root_Certification_Authority.crt	Info	Remove
21	Verisign_Class_1_Public_Primary_Certification_Authority.crt	Info	Remove
22	Verisign_Class_1_Public_Primary_Certification_Authority_-_G3.crt	Info	Remove
23	Verisign_Class_2_Public_Primary_Certification_Authority_-_G2.crt	Info	Remove
24	Verisign_Class_2_Public_Primary_Certification_Authority_-_G3.crt	Info	Remove
25	Verisign_Class_3_Public_Primary_Certification_Authority.crt	Info	Remove
26	Verisign_Class_3_Public_Primary_Certification_Authority_-_G3.crt	Info	Remove
27	thawte_Primary_Root_CA.crt	Info	Remove
28	thawte_Primary_Root_CA_-_G2.crt	Info	Remove
29	thawte_Primary_Root_CA_-_G3.crt	Info	Remove

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



## 2.7 Sensor

The door sensor (pins 5 and 6) on the header can be used to monitor a door's open or closed state. There is an option on the **Sensor** page to trigger on an open or short condition on these pins. The door sensor alarm will be activated when the **Door Open Timeout** parameter has been met.

The intrusion sensor is an optical sensor installed on the Intercom board and will be activated when the Intercom is removed from the case.

Each sensor can trigger up to five different actions:

- Flash the LED until the sensor is deactivated (roughly 10 times/second)
- Activate the relay until the sensor is deactivated
- Loop an audio file out of the Intercom speaker until the sensor is deactivated
- Call an extension and establish two way audio
- Call an extension and play a pre-recorded audio file

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

Figure 2-13. Sensor Page

The screenshot shows the CyberData web interface for configuring sensors. The top navigation bar includes the CyberData logo, product information (Call Button, v22.0.0), serial and MAC addresses, available storage (1485MB), and device status (Idle). Action buttons for Test, Save, Cancel, Reboot, and Logout are present. The main content area is divided into two panels: Door Sensor Settings and Intrusion Sensor Settings. The Door Sensor Settings panel includes fields for Sensor Type (Normally Open), Open Timeout (0 seconds), Flash Button LED (Disabled), Activate Relay (Disabled), Call Extension (Disabled), Dial Out Extension (204), Dial Out ID (id204), Play Recorded Audio (Disabled), and Repeat Sensor Message (0). The Intrusion Sensor Settings panel includes fields for Flash Button LED (Disabled), Activate Relay (Disabled), Call Extension (Disabled), Dial Out Extension (204), Dial Out ID (id204), Play Recorded Audio (Disabled), and Audio Playbacks (0). A sidebar on the left contains navigation icons, and the footer shows 'CyberData • Support'.

Door Sensor Settings	
Sensor Type:	Normally Open
Open Timeout:	0 seconds
Flash Button LED:	Disabled
Activate Relay:	Disabled
Call Extension:	Disabled
Dial Out Extension:	204
Dial Out ID:	id204
Play Recorded Audio:	Disabled
Repeat Sensor Message:	0

Intrusion Sensor Settings	
Flash Button LED:	Disabled
Activate Relay:	Disabled
Call Extension:	Disabled
Dial Out Extension:	204
Dial Out ID:	id204
Play Recorded Audio:	Disabled
Audio Playbacks:	0

## 2.8 Strobe

Figure 2-14. Strobe Page

**Product:** Call Button  
**Firmware:** v22.0.0

**Serial:** 049204479  
**MAC:** 00:20:f7:05:2a:97

**Available Storage:** 1485MB  
**Device Status:** Idle

Test
Save
Cancel
Reboot
Logout

**SIP RGB Strobe Settings**

SIP Operation Enabled

Activate Strobe on Ring:  OFF

Scene	Brightness	Color	Red	Green	Blue	
ADA	255	Color	255	255	255	Preview

Activate Strobe during Call:  OFF

Scene	Brightness	Color	Red	Green	Blue	
ADA	255	Color	255	255	255	Preview

SIP Registration Enabled

Activate Strobe on MWI:  OFF

Scene	Brightness	Color	Red	Green	Blue	
ADA	255	Color	255	255	255	Preview

Activate Strobe on Nightring:  OFF

Scene	Brightness	Color	Red	Green	Blue	
ADA	255	Color	255	255	255	Preview

**Sensor RGB Strobe Settings**

Activate Strobe on Door Sensor:  OFF

Scene	Brightness	Color	Red	Green	Blue	
ADA	255	Color	255	255	255	Preview

Activate Strobe on Intrusion Sensor:  OFF

Scene	Brightness	Color	Red	Green	Blue	
ADA	255	Color	255	255	255	Preview

**Multicast RGB Strobe Settings**

Multicast Disabled

Priority	Scene	Brightness	Color	Red	Green	Blue	
0	ADA	255	Color	255	255	255	Preview
1	ADA	255	Color	255	255	255	Preview
2	ADA	255	Color	255	255	255	Preview
3	ADA	255	Color	255	255	255	Preview
4	ADA	255	Color	255	255	255	Preview
5	ADA	255	Color	255	255	255	Preview
6	ADA	255	Color	255	255	255	Preview
7	ADA	255	Color	255	255	255	Preview
8	ADA	255	Color	255	255	255	Preview
9	ADA	255	Color	255	255	255	Preview

CyberData • [Support](#)

## 2.9 Audiofiles

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

**Figure 2-15. Audiofiles Page**

The screenshot displays the CyberData web interface for configuring audio files. The top navigation bar includes the CyberData logo and the following information: Product: Call Button, Firmware: v22.0.0, Serial: 049204479, MAC: 00:20:f7:05:2a:97, Available Storage: 1485MB, and Device Status: Idle. Action buttons for Test, Save, Cancel, Reboot, and Logout are also present.

The main content area is titled "Audio Files" and contains a table with the following rows:

0:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
1:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
2:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
3:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
4:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
5:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
6:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
7:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
8:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
9:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
SIP Button Message:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
Door Ajar:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
Intrusion Sensor Triggered:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
Multicast Button Message:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>

Below this is the "Menu Audio Files" section, which contains a table with the following rows:

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

The footer of the page shows "CyberData • Support".

Figure 2-16. Audiofiles Page

The screenshot displays the 'Audiofiles Page' in the CyberData management interface. At the top, a purple header bar contains the CyberData logo and the following information: Product: Call Button, Firmware: v22.0.0, Serial: 049204479, MAC: 00:20:F7:05:2a:97, Available Storage: 1485MB, and Device Status: Idle. Action buttons for Test, Save, Cancel, Reboot, and Logout are also present.

The main content area is divided into two sections:

- Message Settings:** A table with four rows:
 

SIP Button Message:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
Door Ajar:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
Intrusion Sensor Triggered:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
Multicast Button Message:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
- Menu Audio Files:** A section with a purple header containing 13 rows of message settings, each with a 'Save' and 'Delete' button.
 

Invalid Entry:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<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="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="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="Save"/>	<input type="button" value="Delete"/>
Or:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<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="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="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="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="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="Save"/>	<input type="button" value="Delete"/>
To Record SIP Button Message:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>
To Record Multicast Button Message:	Currently set to:	default	<input type="button" value="Choose File"/>	No file chosen	<input type="button" value="Save"/>	<input type="button" value="Delete"/>

At the bottom of the main content area is a section titled 'Stored Messages' with a purple header and an empty table below it. The footer of the page contains the text 'CyberData • Support'.

## 2.10 Events

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

**Figure 2-17. Events Page**

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

**Figure 2-18. InformaCast enabled Device**

---

## 2.10.1 Example Packets for Events

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

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

Here are example packets for every event:

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

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

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

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

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

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

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

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

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

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

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

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

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

<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData VoIP Device' MAC='0020f70015b6'>
<event>MULTICAST_START</event>
<index>8</index>
</cyberdata>

POST xmlparse_engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 233
Content-Type: application/x-www-form-urlencoded

<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData VoIP Device' MAC='0020f70015b6'>
<event>MULTICAST_STOP</event>
<index>8</index>
</cyberdata>

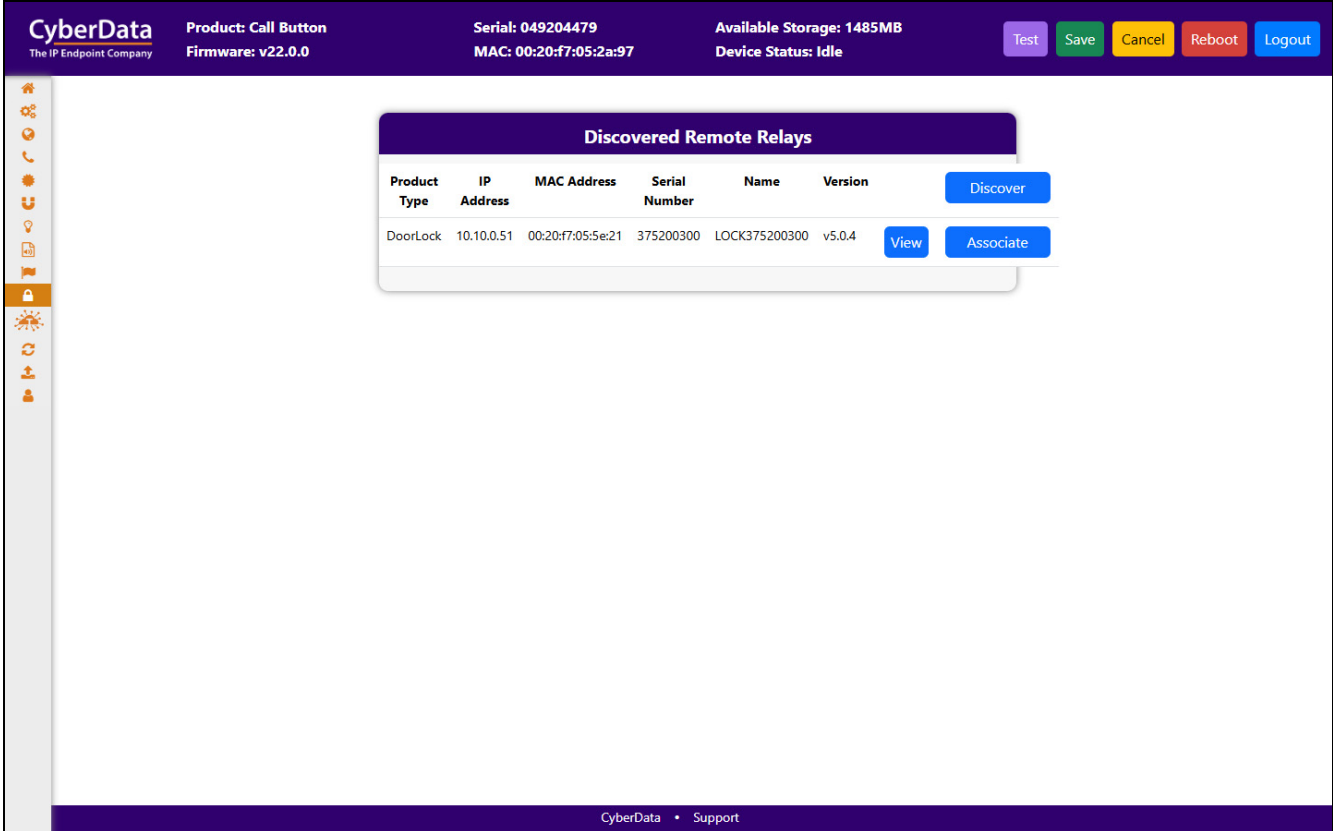
POST xmlparse_engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 234
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData VoIP Device' MAC='0020f70015b6'>
<event>RELAY_ACTIVATED</event>
</cyberdata>
```

```
POST xmlparse_engine HTTP/1.1
Host: 10.0.3.79
User-Agent: CyberData/1.0.0
Content-Length: 234
Content-Type: application/x-www-form-urlencoded
<?xml version="1.0" encoding="ISO-8859-1"?>
<cyberdata NAME='CyberData VoIP Device' MAC='0020f70015b6'>
<event>RELAY_DEACTIVATED</event>
</cyberdata>
```



# 2.11 Remote Relay

Figure 2-19. Remote Relay Page



## 2.12 Terminus

Figure 2-20. Terminus Page

The screenshot displays the Terminus configuration interface. At the top, a dark purple header contains the CyberData logo and company name on the left, and device information on the right: Product: Call Button, Firmware: v22.0.0, Serial: 049204479, MAC: 00:20:f7:05:2a:97, Available Storage: 1485MB, and Device Status: Idle. Action buttons for Test, Save, Cancel, Reboot, and Logout are located on the right side of the header. A vertical sidebar on the left contains various system icons, with the configuration icon highlighted. The main content area features two settings panels: 'Discovery Setting' with fields for Multicast Address (239.27.32.4), Time to Live (255), and Discovery Interval (60 seconds); and 'Lockdown Settings' with Lock Down Mode set to Disabled and Relay set to No Action. A footer at the bottom of the page reads 'CyberData • Support'.

## 2.13 Autoprovisioning

Enabling autoprovisioning allows the device to download provisioning files from a server. It defaults to using DHCP, with options configured in dhcpd.conf on the DHCP server. The file name is <mac address>.xml and if not found, 000000cd.xml.

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

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

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

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

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

Figure 2-21. Autoprovisioning Page

The screenshot displays the Autoprovisioning configuration page for a CyberData device. The top navigation bar includes the CyberData logo, product information (Call Button, v22.0.0), serial number (049204479), MAC address (00:20:f7:05:2a:97), available storage (1485MB), and device status (Idle). Action buttons for Test, Save, Cancel, Reboot, and Logout are present.

The main content area is divided into two panels:

- Autoprov Settings:**
  - Autoprov: ENABLED (dropdown)
  - Autoprov Server: Autoprov Server (text input)
  - Autoprov Filename: Autoprov Filename (text input)
  - Use tftp: DISABLED (dropdown)
  - Verify Server Certificate: DISABLED (dropdown)
  - Username: Username (text input)
  - Password: Password (text input)
  - Autoprov autoupdate: 1106 minutes (spinners)
  - Autoprov at time: HHMM (text input)
  - Autoprov when idle: 0 minutes (spinners)
  - Download Template (button)
- Autoprov Log:**
  - 2024-11-05 14:30:29 Autoprov: no autoprov triggers. Exiting...
  - 2024-11-05 14:30:31 Autoprovisioning on boot
  - 2024-11-05 14:30:31 Autoprov found server='http://10.0.0.242' in dhcp option 43
  - 2024-11-05 14:30:31 Autoprov looking for 0020f7052a97.xml at http://10.0.0.242
  - 2024-11-05 14:30:31 Autoprov downloading http://10.0.0.242/0020f7052a97.xml
  - 2024-11-05 14:30:31 Got autoprov file. Parsing "0020f7052a97.xml"
  - 2024-11-05 14:30:32 Autoprov: Processing ssl certificates
  - 2024-11-05 14:30:32 No certificate elements in SSLCertificates
  - 2024-11-05 14:30:32 Autoprov: Processing audio files
  - 2024-11-05 14:30:32 Autoprov: FirmwareSettings config not found
  - 2024-11-05 14:30:32 DeviceConfig: error = False
  - 2024-11-05 14:30:32 SSLCertificates: error = None
  - 2024-11-05 14:30:33 AudioFiles: error = False
  - 2024-11-05 14:30:33 BellSchedule: error = False
  - 2024-11-05 14:30:33 FirmwareSettings: error = None

The footer of the page contains the text "CyberData • Support".

## 2.14 Firmware

**Note** CyberData strongly recommends that you do not upgrade the firmware when the device is likely to be in use.

To upgrade the firmware of your device:

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

<https://www.cyberdata.net/collections/sip>

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

- Firmware file
- Release notes
- Autoprovisioning template


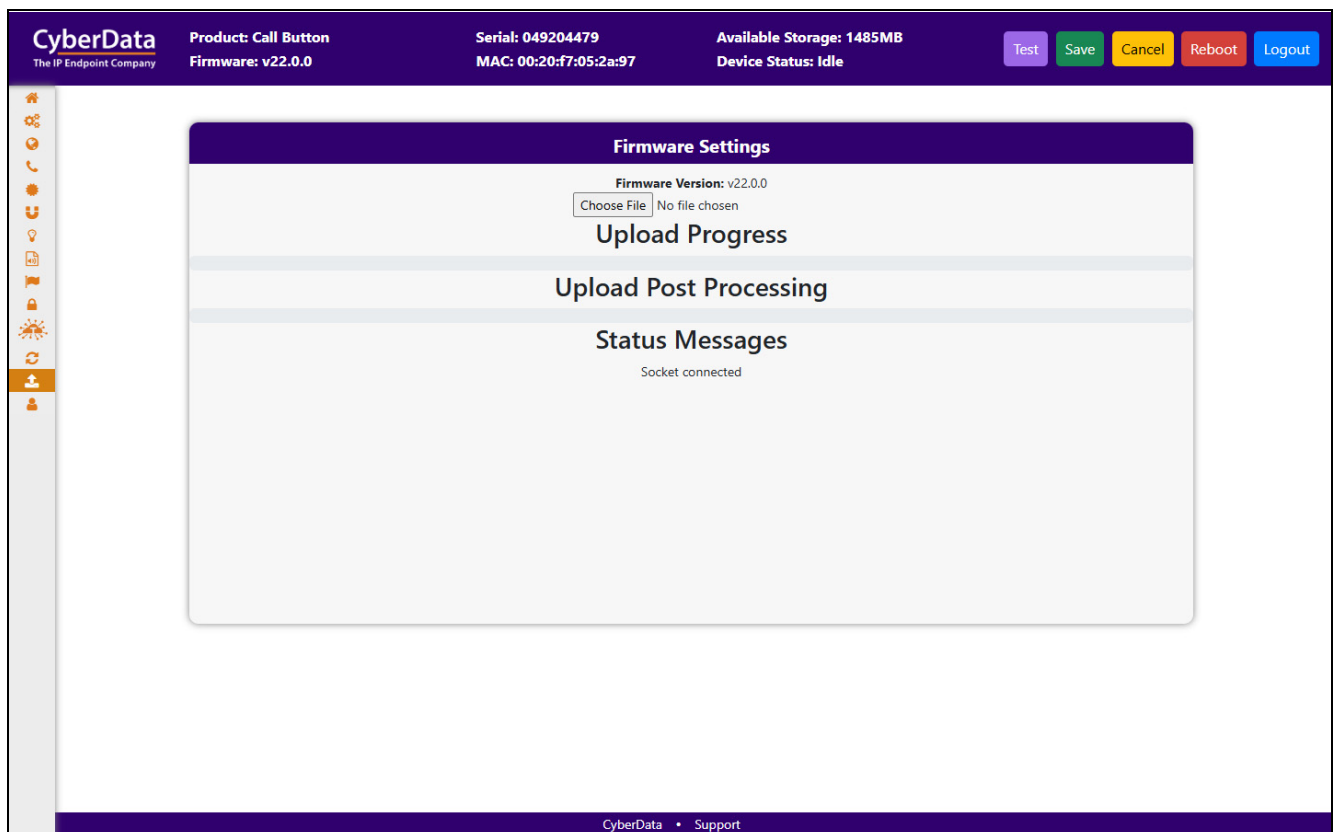
 GENERAL ALERT	<p><b>Caution</b></p> <p><b>Equipment Hazard:</b> Do not reboot the device. It will reboot automatically when the process is complete.</p>
--	--

Figure 2-22. Firmware Page



## 2.15 Admin

Figure 2-23. Admin Page

The screenshot displays the CyberData Admin interface. At the top, the header includes the CyberData logo, product information (Call Button, v22.0.0), device details (Serial: 049204479, MAC: 00:20:f7:05:2a:97), and storage status (1485MB available, Idle). Action buttons for Test, Save, Cancel, Reboot, and Logout are present.

The main content area is divided into several sections:

- Admin Settings:** Fields for Username (admin), Password, and Confirm Password.
- Logging Settings:** Debug Level (4), Log Network Traffic (OFF), and buttons for Get/Remove Application, Network, and All Logs.
- Configuration Settings:** Partition information and buttons for Restore Default Config/Certificates, Import/Export Config, and Boot From Other Partition.
- Statistics:** Overview of Storage (1485MB), Boot Count (36), Reboot Count (32), and Uptime (up 23 hours, 40 minutes).
- Users List:** A table with columns for Username, Home, Device, Network, SIP, SSL, Sensor, Strobe, Audiofiles, Events, DSR, Terminus, Autoprov, Firmware, and Admin. Buttons for Add New User, Delete All Users, Import Users, and Export Users are located above the table.
- Log Viewer:** A section for viewing logs with filters for Service (Application), Entries to get (250), and Sort (Oldest), along with a View Log button.

The footer of the page contains the text "CyberData • Support".

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

## 2.16 Command Interface

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

### 2.16.1 Command Interface Post Commands

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

**Table 2-2. Command Interface Post Commands**

Device Action	HTTP Post Command <sup>a</sup>
Trigger relay (for configured delay)	wget --user admin --password admin --auth-no-challenge --no-check-certificate --quiet -O /dev/null "https://10.0.3.71/cgi-bin/command.cgi" --post-data "test_relay=yes"
Place call to extension (example: extension 130)	wget --user admin --password admin --auth-no-challenge --no-check-certificate --quiet -O /dev/null "https://10.0.3.71/cgi-bin/command.cgi" --post-data "call=130"
Terminate active call	wget --user admin --password admin --auth-no-challenge --no-check-certificate --quiet -O /dev/null "https://10.0.3.71/cgi-bin/command.cgi" --post-data "terminate=yes"
Force reboot	wget --user admin --password admin --auth-no-challenge --no-check-certificate --quiet -O /dev/null "https://10.0.3.71/cgi-bin/command.cgi" --post-data "reboot=yes"
Trigger the Door Sensor Test (Sensor Config page)	wget --user admin --password admin --auth-no-challenge --no-check-certificate --quiet -O /dev/null "https://10.0.3.71/cgi-bin/sensor.cgi" --post-data "doortest=yes"
Trigger the Intrusion Sensor Test (Sensor Config page)	wget --user admin --password admin --auth-no-challenge --no-check-certificate --quiet -O /dev/null "https://10.0.3.71/cgi-bin/sensor.cgi" --post-data "intrusiontest=yes"

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

# Appendix A: Troubleshooting/Technical Support

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## A.1 Contact Information

Contact                      CyberData Corporation  
3 Justin Court  
Monterey, CA 93940 USA  
[www.cyberdata.net](http://www.cyberdata.net)  
Phone: 831-373-2601  
Fax: 831-373-4193

Sales                         Sales 831-373-2601, Extension 334

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

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

The Support Form initiates a ticket which CyberData uses for tracking customer requests. Most importantly, the Support Form tells us which PBX system and software version that you are using, the make and model of the switch, and other important information. This information is essential for troubleshooting. Please also include as much detail as possible in the **Comments** section of the Support Form.

Phone: (831) 373-2601, Extension 333

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## A.2 Warranty and RMA Information

The most recent warranty and RMA information is available at the following website address:

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

# Index

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## A

- activity LED 6
- address, configuration login 8
- autoprovisioning 30
- autoprovisioning configuration 29

## C

- call button LED 7
- changing
  - the web access password 12
- command interface 32
- commands 32
- configuration
  - audio 21
  - door sensor 16, 19
  - intrusion sensor 16, 19
  - network 13, 28
  - SIP 14
- contact information 33
- CyberData contact information 33

## D

- default
  - device settings 34
  - web login username and password 8
- default login address 8
- device configuration 12
  - the device configuration page 29
- device configuration page 12
- device configuration password
  - changing for web configuration access 12
- dial out extension strings 14
- discovery utility program 8
- door sensor 19
- DTMF tones (using rfc2833) 14

## F

- firmware
  - where to get the latest firmware 30

## H

- hazard levels 3
- http POST command 32

## I

- intrusion sensor 19

## L

- LED
  - yellow activity LED 6
- log in address 8

## N

- navigation (web page) 8
- navigation table 8
- network configuration 13, 28

## O

- on-board relay 2

## P

- password
  - login 8
- point-to-point configuration 15
- POST command 32

## R

- resetting the IP address to the default 33
- restoring factory default settings 34
- RTFM jumper 9



## S

- sales 33
- sensor setup page 16, 19, 27
- sensor setup parameters 16, 19
- service 33
- SIP configuration 14

## T

- tech support 33
- technical support, contact information 33

## U

- username
  - changing for web configuration access 12
  - default for web configuration access 8

## W

- warranty policy at CyberData 33
- web configuration log in address 8
- web page
  - navigation 8
- web page navigation 8
- wget, free unix utility 32
- wiring the circuit 3
  - devices less than 1A at 30 VDC 3