



Intercom Operations Guide

Part #s: 011186, 011209, 011211, 011214, 011216, 011304, 011305, 011309, 011567

Document Part #932050A for Firmware Version 22.0

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

Intercom Operations Guide 932050A Part # 011186, 011209, 011211, 011214, 011216, 011305, 011309, 011304, 011567

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Revision Information

Revision 932050A, which corresponds to firmware version 22.0, was released on November 19, 2024.

Pictorial Alert Icons

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

Hazard Levels

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

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

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

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

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

Important Safety Instructions

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

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

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

Abbreviations and Terms

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

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1 Configure the Device

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

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

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

- **Note** The Intercom ships in DHCP mode. To get to the **Home** page, use the discovery utility to scan for the device on the network and open your browser from there.
- 2. On the Log In Page (Figure 1-1), use the following default **Web Access Username** and **Web Access Password** to access the **Home Page** (Figure 1-3):

Web Access Username: admin

Web Access Password: admin

Figure 1-1. Log In Page



1

1.1.1 Restoring Defaults and Announcing the IP Address

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

To restore the device to its factory default settings (Table 1-1), hold the RTFM button for approximately seven seconds.

The device will default to DHCP to obtain an IP address, or will use 192.168.1.23 if a DHCP server is not present.

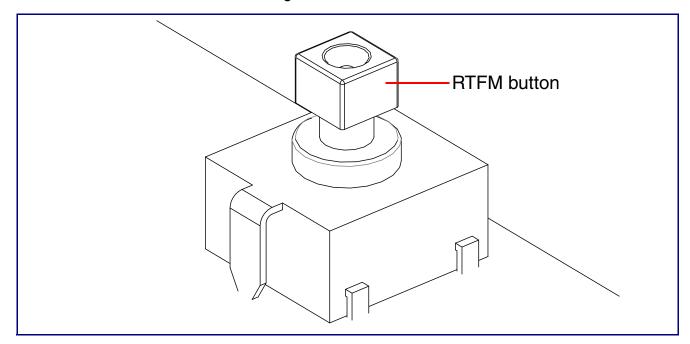


Figure 1-2. RTFM Button

Table 1-1. Factory Default Settings	Table 1-1.	Factorv	Default	Settinas
-------------------------------------	------------	---------	---------	----------

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

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

1.2 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.

Cyk The IP E	DerData ndpoint Company	Product: Intercom Firmware: v22.0.0	Serial: 186200002 MAC: 00:20:f7:03:ef:b7	Available Storage: 1231MB Device Status: Idle	Test Save Cancel Reboot Logout
☆ ↓		Device Configuration	Network	Status	SIP Registration
P © J ♣ ₽ U	Serial Number Mac Address Firmware Version Partition 2 Partition 3 Booting Partition	186200002 0020f703xe6b7 v22.0.0 v22.0.0 v22.0.0 partition 3	IP Address Protocol DHCP IP Address 10.10: Subnet Mask 255.02 Default Gateway 10.00. DNS Server 1 10.01. DNS Server 2 2	1.70 Primary Server: 0.0 Backup Server 1: .1 Backup Server 2:	Enabled Not registered Not registered Not registered Not registered
8		Audio Configuration	Sensor S	Status	System Configuration
	SIP Volume: Multicast Volume: Ring Volume: Sensor Volume:	4 4 4	Relay Status: Lockec Door Status: Closed Intrusion: Active RGB Strobe: Install	Event Mode:	Enabled Disabled Disabled
※ 3 ± ≛	Push to Talk Volume: Microphone Gain: Push to Talk Micropho	4			
			CyberData • Su	pport	

Figure 1-3. Home Page

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

Figure 1-4. InformaCast enabled Device

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

1.3 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: I Firmware:	Serial: 186200002 MAC: 00:20:f7:03:ef:b7	Available Storage: 1 Device Status: Idle	231MB	Test Save Cancel Reboo	Logout
The IP Endpoint Company	Firmware Relay Relay with DTMF Code: dise Code: dise Code Duration: triviation Code: eactivation Code: eactivation Code: eactivation Code: ining Night Ring: ining Night Ring: ining Night Ring: ining Lall Active: 1 Button Press:	MAC: 00:20:f7:03:ef:b7			Test Save Cancel Reboo	E Logout
		CyberD	rta • Support			

Figure 1-5. Device Configuration Page

Note Devices with a keypad also have the following options for the keypad LED (brightness is from 0 to 255).See Figure 1-6.

Figure 1-6. Options for the Keypad LED



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

Figure 1-7. InformaCast enabled Device

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

1.4 Audio

CyberData The IP Endpoint Company	Product: Intercom Firmware: v22.0.0	Serial: 186200002 MAC: 00:20:f7:03:ef:b7	Available Storage: 1231MB Device Status: Idle	Test Save Cancel Reboot
₩				
40		Audio Sett	ngs	
e		SIP Volume: 4		
C		Multicast Volume: 4		
•		Ring Volume: 4	_	
1		Sensor Volume: 4	_	
U		Push to Talk volume: 4		
8		Microphone Gain: 4		
		Push to Talk Microphone Gain: 4		
H				
A				
*				
-976- C				
0				
<u>+</u>				
4				
		CyberData • Suppo	**	

1.5 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: Intercom Firmware: v22.0.0	Serial: 186200002 MAC: 00:20:f7:03:ef:b7	Available Storage: 1231MB Device Status: Idle	Test Save Cancel Reboot Logout
CyberData The IP Endpoint Company Comp			VLAN ID: VLAN Priority:	Text Save Cancel Reboot Logout
4		CyberData • Support		

Figure 1-9. Network Page

1.6 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

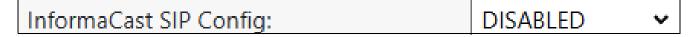
CyberDa The IP Endpoint Comp	ta Prod _{Pany} Firm	luct: Intercom ware: v22.0.0	Serial: 186200002 MAC: 00:20:f7:03:ef:b7		Available Storage: 1 Device Status: Idle	231MB	Test Save Cancel	Reboot Logout
CyberDa Tex IP Ledgeint Com	SIP Operation: SIP Operation: SIP Registration: Auto-Answer Incoming Calls: Play Ringback Tone: Remote SIP Port: Local SIP Port: Local SIP Port: Usersion: Verify Server Certificate: Outbound Proxy: Outbound Proxy: Outbound Proxy: Outbound Proxy: Disable rport Discovery: Keep Alive Timeout: Terminate call after delay: Audio Codec: RTP Port (vero);	SIP Settings NABLED V ENABLED V ENABLED V OFF V S060 S060 S060 S060 DDP V 12 V OFF V OUtbound Provy 0 OFF V NUB V OFF V 10000 milliseconds (ms) 0 Seconds Auto Select V	MAC: 00:20:f7:03:ef:b7			Night SIP Server: SIP User ID: SIP Auth D: SIP Auth Password: Registration Interval:	Test Save Cancel tringer Settings User ID Auth ID Password 360 seconds	
	Asymmetric RTP: Jitter Buffer: RTP Encryption (SRTP):	OFF V 50 DISABLED V	CyberDu	ita • Support				

Figure 1-10. SIP Page

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

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

Figure 1-11. InformaCast enabled Device



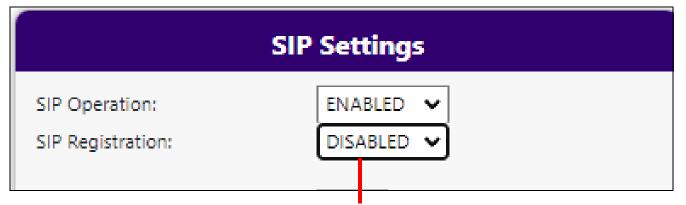
1.6.1 Dial Out Extension Strings and DTMF Tones (using rfc2833)

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

1.6.2 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 1-12.





Device is set to NOT register with a SIP server

1.7 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: Intercom Firmware: v22.0.0	Serial: 186200002 MAC: 00:20:f7:03:ef:b7	Available Storage: 1231MB Device Status: Idle	Test Save Cancel Reboot Logout
*	Web Server Certificate	SIP Client Certificate		Autoprovisioning Client Certificate
© J ● V ⇒ ⇔ @ I	subject: controllane US tatactorProvinceniae California localityname - Voterry organizationame - Operata commoname - Oberstata commoname - Oberstata comm	subject- controlymane = US stateOrProvincemane = Calif- localitymane = nonzer organizationwane = 0;0err nottefore-sefe 1 zizzzie 2023 GUT nottefore-sefe 1 zizzzie 2023 GUT Choose Files. No file chosen Import SIR Centificate	ey ata	subject= contrylease = US states/Provincesare = California localitynese = Nontrey organizationame = Operata comorname = NosProsePro notaffroarHo 1 1111210 2019 OUT motaffroarHo 1 1111210 2019 OUT motaffroarHo 1 1111210 2019 OUT motaffroarHo 1 1111210 2019 OUT MotaffroarHo 1 1111210 2019 OUT NotaffroarHo 1 1111210 2019 OUT MotaffroarHo 1 2011210 2019 OUT Choose Files No file chosen
● ※ 2	Restore Web Certificate	Restore SIP Certificate Password (optional):		Restore Autoprovisioning Certificate Password (optional):
*		List of Trusted CAs		
		Upload CA Certificate: Choose Files No file chosen	Import CA Certificate	
		Download CyberData CA Generate Cyberdata CSR Rer	nove All Restore Defaults	
	1 CyberData_CA.pem		Info	Remove
	2 DigiCert_Assured_ID_Root_CA.crt		Info	Remove
	3 DigiCert_Assured_ID_Root_G2.crt 4 DigiCert_Assured_ID_Root_G3.crt		Info	Remove
	5 DigiCert_Global_Root_CA.crt			Remove
	6 DigiCert_Global_Root_G2.crt		Info	Remove
	7 DigiCert_Global_Root_G3.crt		Info	Remove
	8 DigiCert_High_Assurance_EV_Root_CA.c	rt	Info	Remove
	9 DigiCert_Trusted_Root_G4.crt		Info	Remove
		CyberData • Support		· · · · · · · · · · · · · · · · · · ·

CyberData The IP Endpoint Company	Product: Intercom Firmware: v22.0.0	Serial: 186200002 MAC: 00:20:f7:03:ef:b7	Available Storage: 1231MB Device Status: Idle		Test Save Cancel Reboot Logout
*	8 DigiCert_High_Assurance_EV_Ro	pot_CA.crt	Info	Remove	
10	9 DigiCert_Trusted_Root_G4.crt		Info	Remove	
2	10 GeoTrust_Global_CA.crt		Info	Remove	
3	11 GeoTrust_Primary_Certification_	Authority.ort	Info	Remove	
2 7	12 GeoTrust_Primary_Certification_	AuthorityG2.crt	Info	Remove	
	13 GeoTrust_Primary_Certification_	AuthorityG3.crt	Info	Remove	
	14 GeoTrust_Universal_CA.crt		Info	Remove	
(6)	15 GeoTrust_Universal_CA_2.crt		Info	Remove	
	16 Go_Daddy_Class_2_CA.pem		Info	Remove	
	17 Go_Daddy_Root_Certificate_Aut	horityG2.pem	Info	Remove	
	18 VeriSign_Class_3_Public_Primary	_Certification_Authority_*_G4.crt	Info	Remove	
	19 VeriSign_Class_3_Public_Primary	_Certification_AuthorityG5.crt	Info	Remove	
	20 VeriSign_Universal_Root_Certific	ation_Authority.crt	Info	Remove	
	21 Verisign_Class_1_Public_Primary	_Certification_Authority.crt	Info	Remove	
	22 Verisign_Class_1_Public_Primary	_Certification_AuthorityG3.crt	Info	Remove	
	23 Verisign_Class_2_Public_Primary	_Certification_AuthorityG2.crt	Info	Remove	
	24 Verisign_Class_2_Public_Primary	_Certification_AuthorityG3.crt	Info	Remove	
	25 Verisign_Class_3_Public_Primary	_Certification_Authority.crt	Info	Remove	
	26 Verisign_Class_3_Public_Primary	_Certification_AuthorityG3.crt	Info	Remove	
	27 thawte_Primary_Root_CA.crt		Info	Remove	
	28 thawte_Primary_Root_CAG2.	art	Info	Remove	
	29 thawte_Primary_Root_CAG3.	art	Info	Remove	

Figure 1-14. SSL Page (2 of 2)

1.8 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.

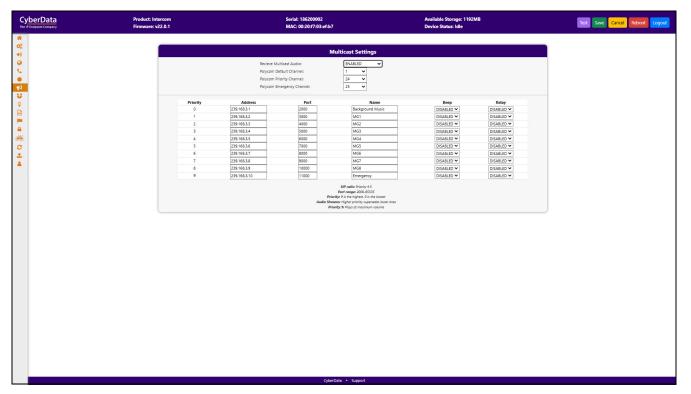


Figure 1-15. Multicast Page

1.9 Sensor

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

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

Each sensor can trigger up to five different actions:

- Flash the LED until the sensor is deactivated (roughly 10 times/second)
- · Activate the relay until the sensor is deactivated
- · Loop an audio file out of the Intercom speaker until the sensor is deactivated
- Call an extension and establish two way audio
- Call an extension and play a pre-recorded audio file
- **Note** Calling a preset extension can be set up as a point-to-point call, but currently can't send delayed DTMF tones.

Figure 1-16. Sensor Page

CyberData The IP Endpoint Company	Product: Intercom Firmware: v22.0.0	Serial: 186200002 MAC: 00:20:f7:03:ef:b7	Available Storage: 12311 Device Status: Idle	мв	Test Save Cancel Reboot Logout
CyberData Traite Compared Comp	Firmware: v22.0.0			'Settings v v v	Tex Save Cancel Reboot Logout
		CyberData •	Suport		
		Cyberbala -	Support		

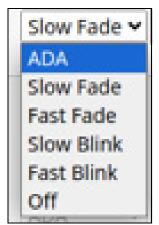
1.10 Strobe

CyberData The IP Endpoint Company	Product: Intercom Firmware: v22.0.0	Serial: 186200002 MAC: 00:20:f7:03:ef:b7		vailable S evice Sta	Storage: 123 tus: Idle	1MB				Test	ave Cancel	Reboot	Logout
 ▲ 	SIP RGB Strobe	Settings			Multicas	t RGB St	robe S	etting	s				
	SIP Operation E Activate Strobe on R Scene Brightness Color Ret		Priority 0	Scene ADA		-	Red	Green	Blue 255	Preview			
• ☆ U	ADA 💙 255 Color 💙 255 Activate Strobe during Scene Brightness Color Re			ADA ADA	✓ 255✓ 255	Color - Color -		255 255	255	Preview Preview			
	ADA v 255 Color v 255 SIP Registration	255 255 Preview		ADA ADA	✓ 255✓ 255	Color • Color •	255 255	255 255	255	Preview Preview			
	Activate Strobe on M Scene Brightness Color Ret ADA v 255 Color 255	d Green Blue	5	ADA ADA	✓ 255✓ 255	Color - Color -	255 255	255 255	255 255	Preview Preview			
	Activate Strobe on Nig Scene Brightness Color Re ADA v 255 Color • 255			ADA ADA	✓ 255✓ 255	Color - Color -	255 255	255 255	255 255	Preview Preview			
	Sensor RGB Strol	De Settings	9	ADA	× 255	Color •	255	255	255	Preview			
	Activate Strobe on Door Scene Brightness Color Re ADA v 255 Color 255												
	Activate Strobe on Intrusio Scene Brightness Color Ree ADA v 255 Color - 255												
		CyberData • Supp	ort										

Figure 1-17. Strobe Page

For each option, there are 5 scenes available:





Use the red, green, and blue values to create custom colors.

The ADA scene flashes white at maximum brightness (255). Other scenes can adjust the brightness, from 0 to 255.

Color - 255	
White	
Yellow	
Orange	
Red	
Pink	
Purple	
Blue	
Teal	
Green	
Lime	

Figure 1-19. 10 Colors

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

Figure 1-20. InformaCast enabled Device

InformaCast RGB Strobe Settings									
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		

1.11 Audiofiles

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

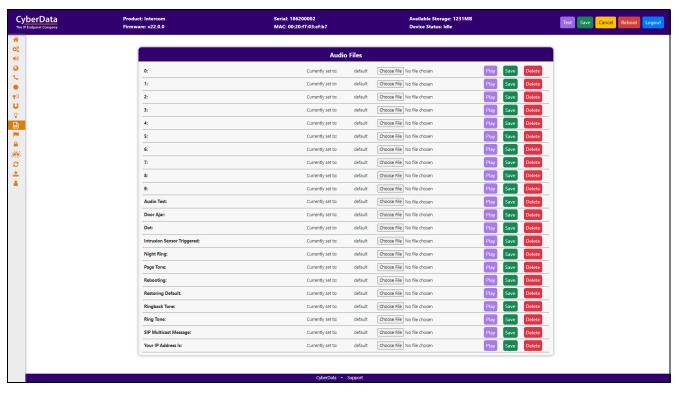


Figure 1-21. Audiofiles Page

Note The keypad also has the audio file "Blacklist message": Figure 1-22.

Figure 1-22. Keypad audio file "Blacklist message"

Blacklist Message: Currently set to: default Choose File No file chosen Play Save Delete
--

1.12 Events

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

Cy	berData Endpoint Company	Product: Intercom Firmware: v22.0.0	Serial: 186200002 MAC: 00:20:f7:03:ef:b7		ile Storage: 1231MB Status: Idle	Test Save Cancel Reboot Logout
* *			Event Server		Events	
-			Event Server		Events	
0		Event Generation:	DISABLED ¥	Application Started Events:	DISABLED 🖌	
6		Server IP Address:	10.0.250	Reboot Events:	DISABLED 👻	
		Server Port:	8080	Heartbeat Events:	DISABLED 👻	
1		Server URL:	xmlparse_engine	Security Events:	DISABLED 👻	
U				Call Started Events:	DISABLED 👻	
8				Call Terminated Events:	DISABLED 👻	
				Ring Events:	DISABLED 🖌	
•				Nightring Events:	DISABLED 🖌	
2				Multicast Started Events:	DISABLED 💙	
-				Multicast Stopped Events:	DISABLED 🗸	
**				Relay Activated Events:	DISABLED 🖌	
0				Relay Deactivated Events:	DISABLED 🗸	
±				Remote Relay Events:	DISABLED V	
-				Button Events:	DISABLED 🖌	
•				Sensor Events:	DISABLED 🛩	
			CyberData •	Support		

Figure 1-23. Events Page

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

Figure 1-24. InformaCast enabled Device

InformaCast Start Events:	DISABLED	~
InformaCast Stop Events:	DISABLED	~

1.12.1 Example Packets for Events

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

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

Here are example packets for every event:

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

1.13 Door Strike Relay

When a Dual Door Strike Relay (DDSR) is associated with a device, the **Door Strike Relay** page appears (Figure 1-25). The DTMF codes entered during a phone call will activate the relays for the specified times, with **0** activating/deactivating indefinitely, until deactivated from the web page, or the DTMF code is entered.

Entering airlock activates the outer relay (relay 2 until the door (door 2) is opened and closed or until it reaches the **Energize Time** configured in the **Configure DSR** dialog box. When door 2 closes, the inner relay (relay1) is activated until door 1 closes. Exit airlock activates the inner relay (relay 1).

If either door is opened longer than the time specified in **Remote Door Sensor Settings**, the device can make a call to a specified extension.

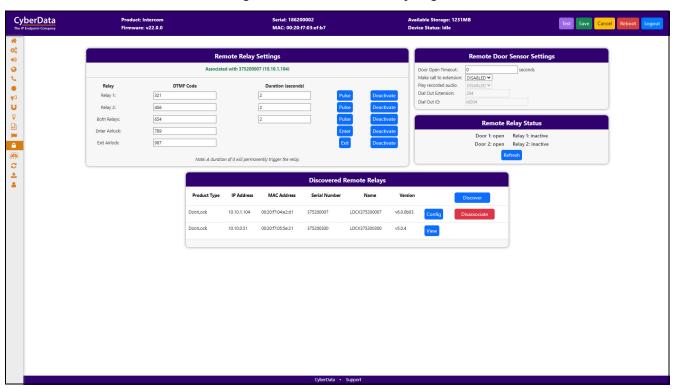


Figure 1-25. Door Strike Relay Page

1.14 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 1-26. Terminus Page

	yberData IP Endpoint Company	Product: Intercom Firmware: v22.0.0	Serial: 186200002 MAC: 00:20:f7:03:ef:b7		Available Storage: 1231MB Device Status: Idle	Test Save Cancel Reboot Logout
* 8 ° 0 J			Multicast Address: Time to Live:	239.27.32.4 255 60 seconds		
•			Discovery Interval:	60 seconds		
			DSR Remote Relay 1: DSR Remote Relay 2:	No Action V No Action V		
± 4						

1.15 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, 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 1-27. Autoprovisioning Page

CyberData The IP Endpoint Company	Product: Intercom Firmware: v22.0.0	Serial: 186200002 MAC: 00:20:f7:03:ef:b7	Available Storage: 1231MB Device Status: Idle	Test Save Cancel Reboot Logout
CyberData Twr Holpow Corpury				Test Save Cancel Reboot Lopout
		CyberData •	support	

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

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

- 2. Unzip the firmware version file. This file may contain the following:
- Firmware file
- Release notes
- Autoprovisioning template

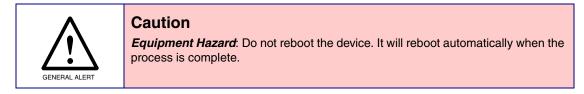


Figure 1-28. Firmware Page

CyberData The IP Endpoint Company	Product: Intercom Firmware: v22.0.0	Serial: 186200002 MAC: 00:20:f7:03:ef:b7	Available Storage: 1231MB Device Status: Idle	Test Save Cancel Reboot Logout
* 03		Firmware Settings		
 49 39 		Firmware Sectings		
Č.		Choose File No file chosen		
•		Upload Progress		
U		Upload Post Processing		
 ♀ ■ 		Status Messages		
		Socket connected		
₽ ₩ 2 2				
2				
•				
)
		CyberData • Support		

1.17 Admin

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

CyberData The IP Energoint Company	Product: Intercom Firmware: v22.0.0	Serial: 186200002 MAC: 00:20:f7:03:ef:b7	Available Storage: 1231MB Device Status: Idle	Test Save Cancel Reboot Logout
	Admin Settings	Logging Settings Debug Linit: Log Network Traffic Get Algolication Log Get All Logs Remove Algolication Log Get All Logs Remove All Logs Remov		Configuration Settings V22.00 partice 3 Default Config Record From Other Partition
C 2 2 3 Username Home	Device Audio Network SI	Users List Add New User Delete All Users Import Users Esport Users IP SSL Multicast Sensor Strobe Audiofiles	Events DSR Termin	as Autoprov Firmware Admin
		Log Viewer Service <u>Application</u> ♥ Britnes to get [35] Sort Otdest ♥ View Log	3	
		CyberData • Support		

Figure 1-29. Admin Page

1.18 Keypad Pages

1.18.1 Buttons

Note SECURITY must be selected as the dial mode to use security settings and to send multicast.

Figure 1-30. Buttons Page

	Available Storage: 1271MB Device Status: Idle	Test Save Cancel Reboot Logout
	Keypad Mapping	
ds Keypad 2: 2 Keypad 3 2 Keypad 4 2 Keypad 4 2 Keypad 5 2 Keypad 6 2 Keypad 7 2 Keypad 8 2 Keypad 9 2 Keypad 9 2 Keypad 9 2 Keypad 9 2 Keypad 9 2 Keypad 9 2	Extension Extension 11 id24 12 id24 13 id24 14 id24 15 id24 16 id24 17 id24 18 id24 19 id24 110 id2411 110 id2412	
	Button 2 Keypad 1 2 Keypad 2: 2 Keypad 3 2 Keypad 4 2 Keypad 5: 2 Keypad 6 2 Keypad 7 2 Keypad 8 2 Keypad 9 2 Keypad 7 2 </td <td>Keypad Mapping Button Extension Keypad 1 241 Keypad 2: 242 Keypad 3 243 Keypad 4 244 Keypad 5: 242 Keypad 6 243 Keypad 6 246 Keypad 7 247 Keypad 8 248 Keypad 9 249 Keypad 9 249 Keypad 9 249 Keypad 9 2411 Keypad 4 2410 Keypad 4 2410 Keypad 4 2412</td>	Keypad Mapping Button Extension Keypad 1 241 Keypad 2: 242 Keypad 3 243 Keypad 4 244 Keypad 5: 242 Keypad 6 243 Keypad 6 246 Keypad 7 247 Keypad 8 248 Keypad 9 249 Keypad 9 249 Keypad 9 249 Keypad 9 2411 Keypad 4 2410 Keypad 4 2410 Keypad 4 2412

1.18.2 Security

Note When a user from the access list enters their access code, the actions that follow are configured on this page. **SECURITY** mode must be enabled on the **Buttons** page.

Relay Settings Activate Relay on Vaild Code: OF Activate Relay on Vaild Code: OF Buzz on Door Open Timeout: OF OF	CyberData Product: Keypad Intercom The iFindpoint Company Firmware: v22.0.0	Serial: 214200002 MAC: 00:20:f7:03:f5:e3	Available Storage: 1271MB Device Status: Idle	Test Save Cancel Reboot Logout
	Relay Settings Activate Relay on Valid Code: Activate DSR on Valid Code: OFF ↓ Relay Timeout: 6 Seconds Buzz while Relay Active: DFF ↓ Play Tone on Invalid Code Entry:	Sensor Settings Buzz on Door Open Timeout: OFF • Sensor Type: Normally Open • Sensor Open Timeout: OFF •	Device Status: Idle SIP Call Audio Message: Dial Out Estension: Dial Out ID: Repeat Message: Send Multicast Audio: Multicast Audio: Multicast Audio:	Blacklist Settings

Figure 1-31. Security Page

1.18.3 Access List

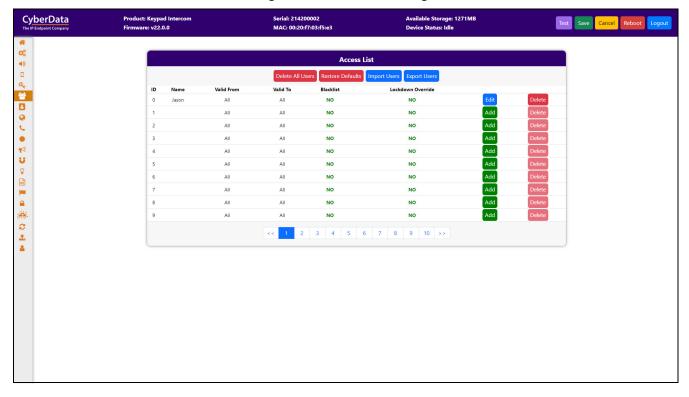


Figure 1-32. Access List Page

1.18.4 Access Log

Note The Access log is exported in CSV format, and is compatible with many spreadsheet programs, including MS Excel and Google Sheets.

CyberData The IP Endpoint Company	Product: Keypad Intercom Firmware: v22.0.0	Serial: 214200002 MAC: 00:20:f7:03:f5:e3	Available Storage: 1271MB Device Status: Idle	Tes	t Save Cancel Reboot Logout
*					
0 °		Access Log			
4 0		Access Log			
		Clear Log Download Log Refresh	Log		
Q.					
쓭	Search				
8	Event # 🗸 Timestamp 🗢	Action \$	User ID \$	User Name 🗢	
0	6 Mon 2024-10-07 15:05:44 PM	Relay activated			
e	5 Mon 2024-10-07 15:05:44 PM	User authenticated	0	Jason	
	4 Mon 2024-10-07 15:05:44 PM	Valid security code	0	Jason	
2	3 Mon 2024-10-07 15:05:21 PM	Relay activated			
	2 Mon 2024-10-07 15:05:21 PM	User authenticated	0	Jason	
U	1 Mon 2024-10-07 15:05:21 PM	Valid security code	0	Jason	
Ŷ	Showing 1 to 6 of 6 rows				
0					
H					
A					
*					
0					
±					
4					
-					

Figure 1-33. Access Log Page

1.19 Command Interface

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

1.19.1 Command Interface Post Commands

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

HTTP Post Command ^a		
wgetuser adminpassword adminauth-no-challengequiet - O /dev/nullno-check-certificate "https://10.10.1.154/command" post-data "request=reboot"		
wgetuser adminpassword adminauth-no-challengequiet - O /dev/nullno-check-certificate "https://10.10.1.154/command" post-data "request=call&extension=600"		
wgetuser adminpassword adminauth-no-challengequiet - O /dev/nullno-check-certificate "https://10.10.1.154/command" post-data "request=test_relay"		
wgetuser adminpassword adminauth-no-challengequiet - O /dev/nullno-check-certificate "https://10.10.1.154/command" post-data "request=test_audio"		
wgetuser adminpassword adminauth-no-challengequiet - O /dev/nullno-check-certificate "https://10.10.1.154/command" post-data "request=speak_ip_address"		
wgetuser adminpassword adminauth-no-challengequiet - O /dev/nullno-check-certificate "https://10.10.1.154/command" - post-data "request=test_mic"		
wgetuser adminpassword adminauth-no-challengequiet - O /dev/nullno-check-certificate "https://10.10.1.154/command" - post-data "request=swap_boot_partition"		

Table 1-2. Command Interface Post Commands

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

Appendix A: Troubleshooting/Technical Support

A.1 Contact Information

Contact CyberData Corporation

3 Justin Court Monterey, CA 93940 USA <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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