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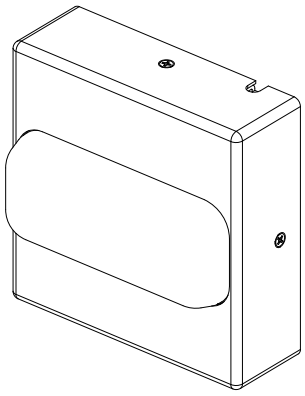

Singlewire-enabled V3 Strobe Operations Guide

Part #*011244*

Document Part #*930644C*
for Firmware Version *2.0.8*

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Singlewire-enabled V3 Strobe Operations Guide 930644C
Part # 011244

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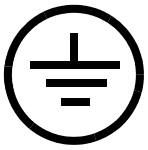
Technical Support

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

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

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

Warning

Electrical Hazard: This product should be installed by a licensed electrician according to all local electrical and building codes.

Warning

Electrical Hazard: To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

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
u-law	A companding algorithm, primarily used in the digital telecommunication
UC	Unified Communications
VoIP	Voice over Internet Protocol

Revision Information

Revision 930644C, which corresponds to firmware version 2.0.8, was released on October 30, 2015, and has the following changes:

- Updates the following specifications in Table 1-1, "Specifications":
  - Power Input: PoE 802.3af compliant or +8 to +12VDC @ 1000mA Regulated Power Supply
  - Speaker Output: 1 Watt Peak Power
  - On-Board Relay: 1A at 30 VDC
  - Dimensions: 5.118 inches [130 mm] Length, 2.252 inches [57.21 mm] Width, 5.118 inches [130 mm] Height
  - Weight: 1.0 lbs. (0.45 kg)
  - Boxed Weight: 2.0 lbs. (0.90 kg)
- Updates Figure 2-3, "V3 Strobe Connections"

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1 Product Overview

1.1 How to Identify This Product

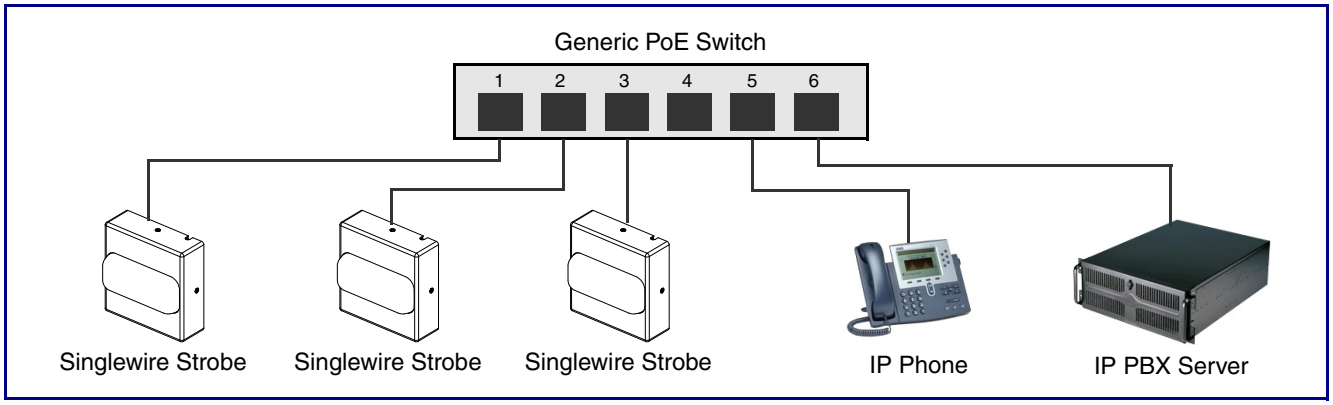
To identify the V3 Strobe, look for a model number label similar to the one shown in Figure 1-1. The model number on the label should be **011244**.

Figure 1-1. Model Number Label

1.2 Typical System Installation

Figure 1-2 illustrate how the V3 Strobes can be installed as part of a VoIP phone system.

Figure 1-2. Typical Installation



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GENERAL ALERT	Warning *Electrical Hazard:* The Singlewire-enabled V3 Strobe enclosure is not rated for any AC voltages.
GENERAL ALERT	Warning *Electrical Hazard:* This product should be installed by a licensed electrician according to all local electrical and building codes.
GENERAL ALERT	Warning *Electrical Hazard:* To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

1.3 Product Features

- InformaCast
- Meets ADA requirements for telephony signalling and notification
- Web-based setup
- SingleWire GPI/O input and relay control

  Note: 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.
- PoE-powered

1.4 Supported Protocols

The V3 Strobe supports:

- HTTP Web-based configuration

  Provides an intuitive user interface for easy system configuration and verification of V3 Strobe operations.
- DHCP Client

  Dynamically assigns IP addresses in addition to the option to use static addressing.
- RTP
- RTP/AVP - Audio Video Profile
- Audio Encodings

  PCMU (G.711 mu-law)

  PCMA (G.711 A-law)

  Packet Time 20 ms

1.5 Supported SIP Servers

This device works with the Singlewire InformaCast Server.

1.6 Specifications

Table 1-1. Specifications

Specifications	
Ethernet I/F	10/100 Mbps
Protocol	SIP RFC 3261 Compatible and InformaCast v4.0 and later
Power Input	PoE 802.3af compliant or +8 to +12VDC @ 1000mA Regulated Power Supply[a]
Light power	Up to 90 candela (user-selectable)
Flash rate	5 user-defined scenes
LED MTBF	100,000 Hours
On-Board Relay	1A at 30 VDC
Operating Temperature	-10° C to 50° C (14° F to 122° F)
Payload Types	G711, A-law and µ-law
Dimensions	4.5 inches [115 mm] Length 2.1 inches [55 mm] Width 4.5 inches [115 mm] Height
Weight	1.0 lbs. (0.45 kg)
Boxed Weight	2.0 lbs. (0.90 kg)
Part Number	011244

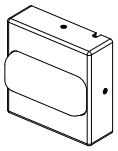
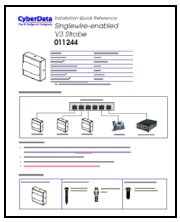
a. Contacts 1 and 2 on the J3 terminal block are only for powering the device from a non-PoE 12VDC power source as an alternative to Network PoE power. Use of these contacts for any other purpose will damage the device and void the product warranty.

2 Installing the V3 Strobe

2.1 Parts List

Table 2-2 illustrates the Singlewire-enabled V3 Strobe parts.

Table 2-2. Parts List

Quantity	Part Name	Illustration
1	V3 Strobe Assembly	
1	Installation Quick Reference Guide	
1	V3 Strobe Mounting Accessory Kit	

2.1 V3 Strobe Setup

2.1.1 V3 Strobe Connections

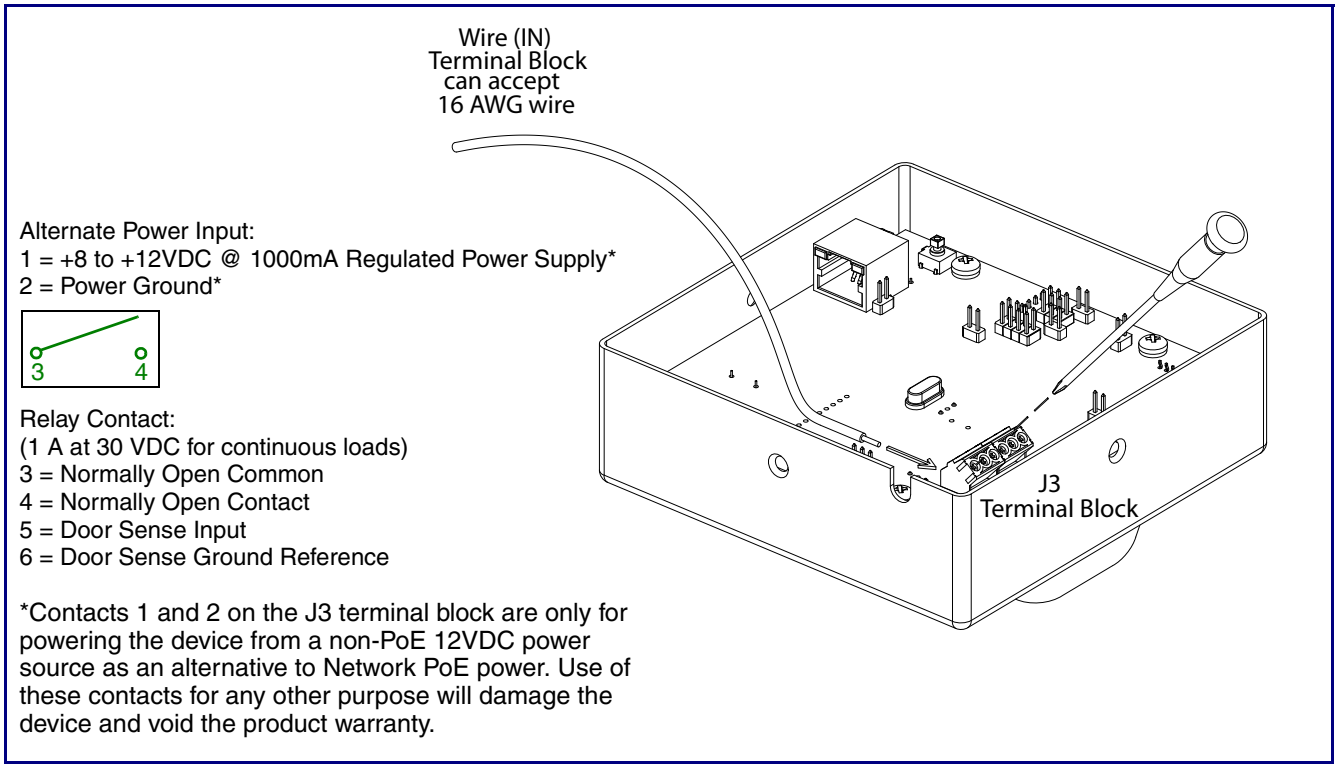
Figure 2-3 shows the pin connections on the J3 (terminal block). This terminal block can accept 16 AWG gauge wire.

Note As an alternative to using PoE power, you can supply +8 to +12VDC @ 1000mA Regulated Power Supply into the terminal block.

Caution

Equipment Hazard: Contacts 1 and 2 on the J3 terminal block are only for powering the device from a non-PoE 12 VDC power source as an alternative to Network PoE power. Use of these contacts for any other purpose will damage the device and void the product warranty.

Figure 2-3. V3 Strobe Connections



2.1.2 Connecting the V3 Strobe to the On-Board Relay

Warning

Electrical Hazard: The V3 Strobe enclosure is not rated for any AC voltages.

Warning

Electrical Hazard: This product should be installed by a licensed electrician according to all local electrical and building codes.

Warning

Electrical Hazard: To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

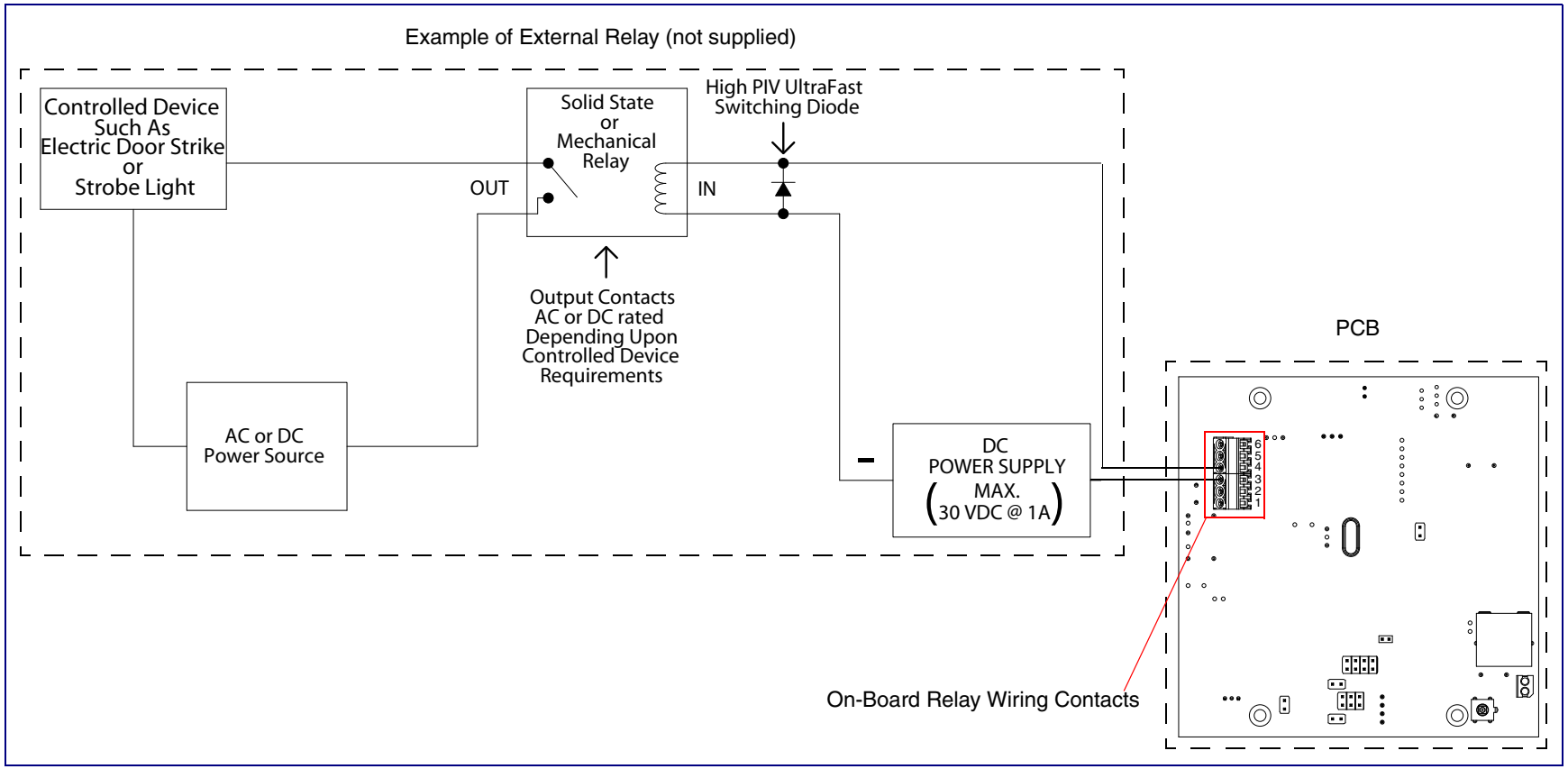
Warning

Electrical Hazard: 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.

The device incorporates an on-board relay which enables users to control an external relay for activating an auxiliary device such as an electric door strike (see Figure 2-4, "Wiring Diagram").

The relay contacts are limited to 1A at 30 VDC. The relay activation time is selectable through the web interface and is controlled by DTMF tones generated from the phone being called. The DTMF tones are selectable from the web interface as well.

Figure 2-4. Wiring Diagram



2.1.3 Identifying the V3 Strobe Connectors and Jumpers

See the following figures and tables to identify the V3 Strobe connector locations and functions.

Figure 2-5. Connector Locations

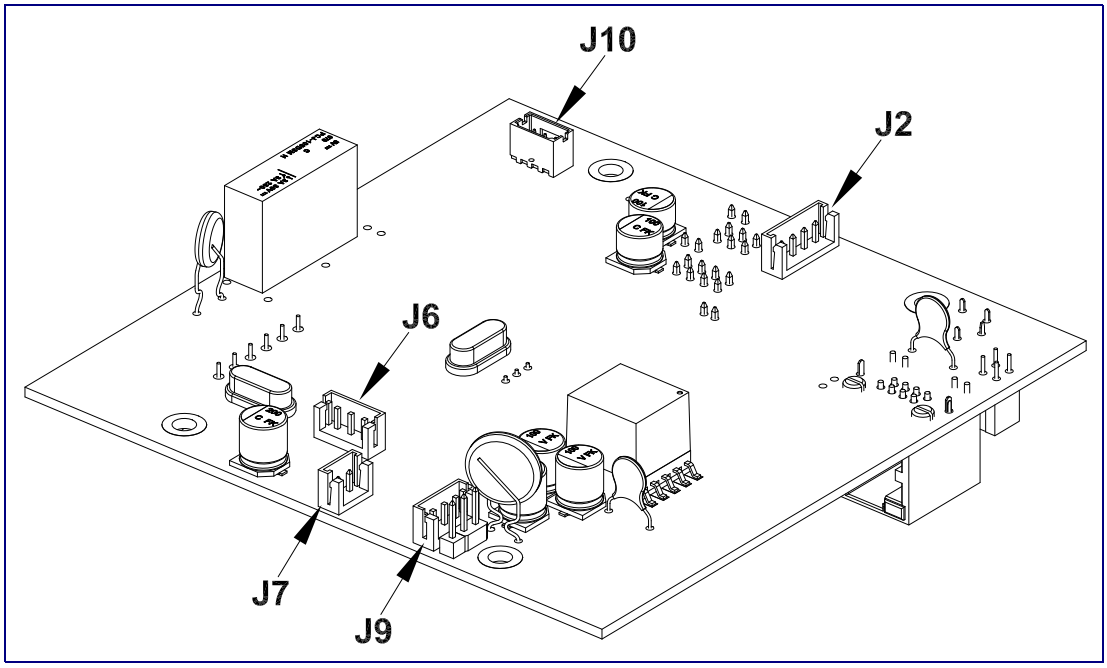


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Table 2-3. Connector Functions

Connector	Function
J2	Call Button Interface — Not Used
J6	Microphone Interface — Not Used
J7	Speaker Interface — Not Used
J9	Strobe Power Interface
J10	Proximity Sensor Interface — Not Used

Figure 2-6. Connector Locations

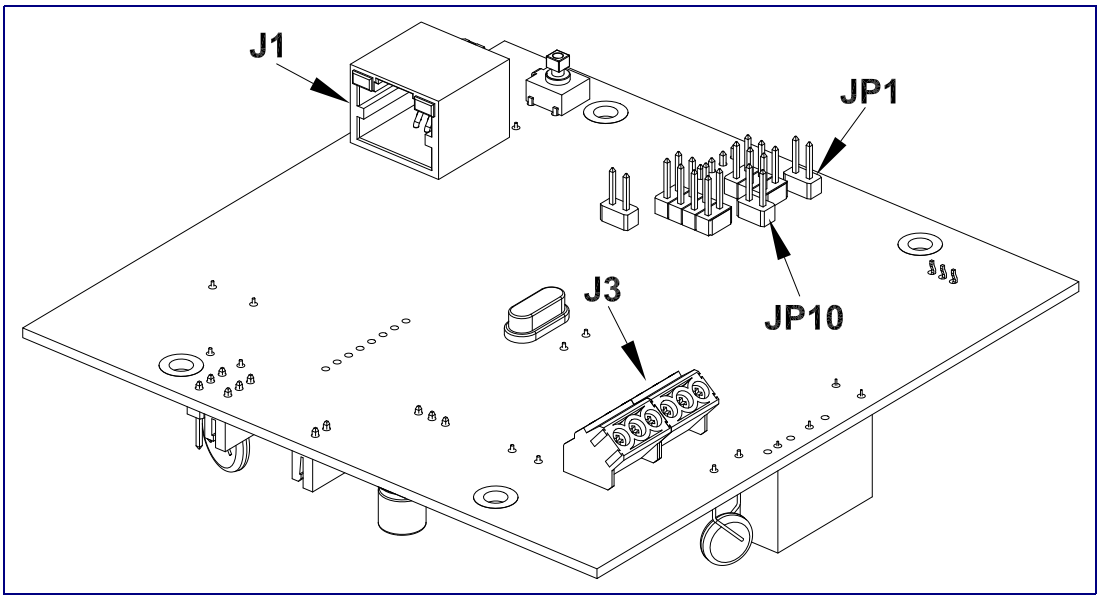

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Table 2-4. Connector Functions

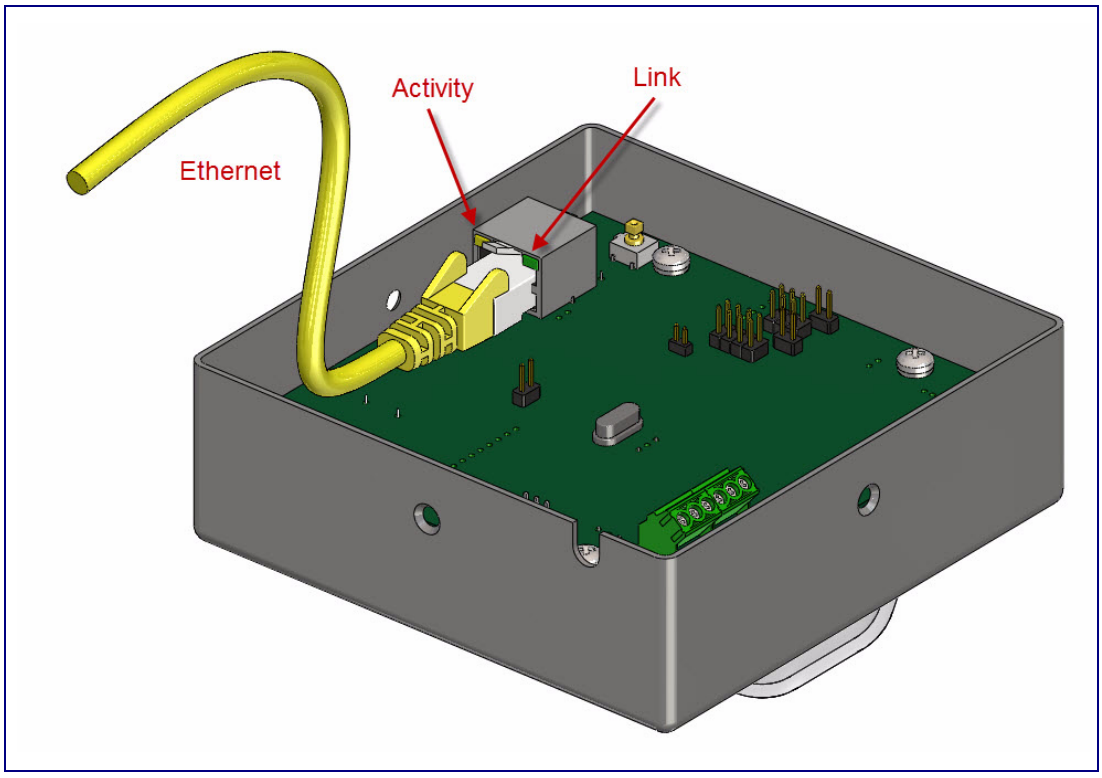
Connector	Function
J1	Ethernet Connector
J3	User Terminal Block Interface
JP1	Manual Reset — Factory only
JP10	Intrusion Sensor Disable. Place jumper on to disable.

2.1.4 Network Connectivity, and Data Rate

When you plug in the Ethernet cable or power supply:

- The square, green **Link** light above the Ethernet port indicates that the network connection has been established (see Figure 2-7).

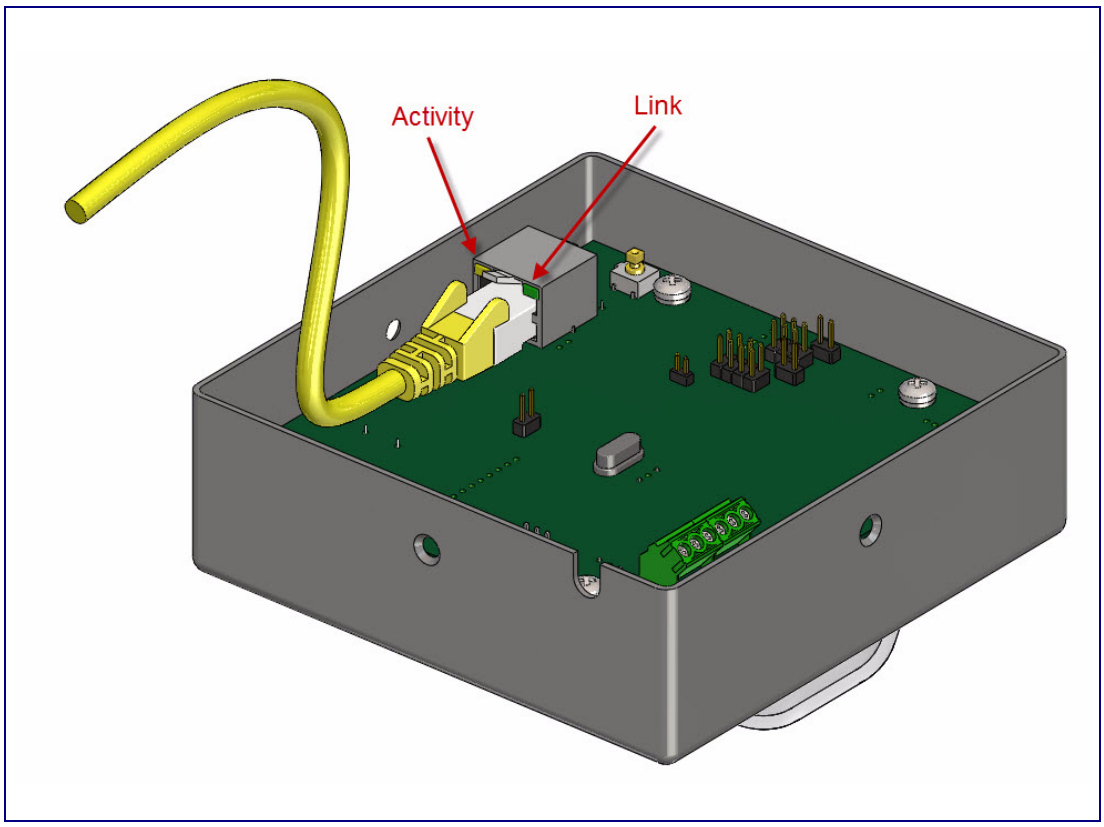
Figure 2-7. Network Connector Prior to Installation



2.1.4.1 Verify Network Activity

The square, yellow **Activity** light blinks when there is network activity.

Figure 2-8. Network Connector



2.1.5 RTFM Button

When the V3 Strobe is operational and linked to the network, use the Reset Test Function Management **(RTFM)** button (Figure 2-9) on the V3 Strobe board to restore the unit to the factory default settings.

2.1.5.1 Restore the Factory Default Settings

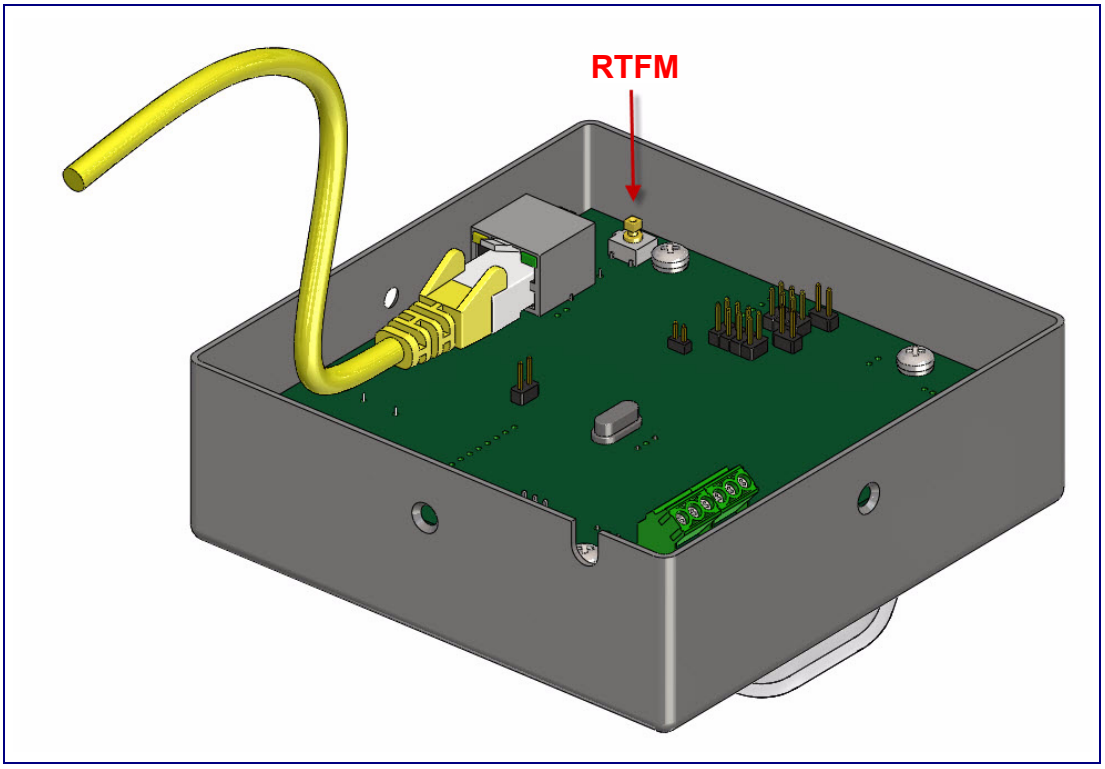
Note Each V3 Strobe is delivered with factory set default values.

Note The V3 Strobe will use DHCP to obtain the new IP address (DHCP-assigned address or default to 10.10.10.10 if a DHCP server is not present).

To set the factory default settings:

1. Press and hold the RTFM switch for seven seconds, and then release the RTFM switch.

Figure 2-9. RTFM Switch



2.2 Configure the V3 Strobe Parameters

To configure the V3 Strobe online, use a standard web browser.

Configure each V3 Strobe and verify its operation *before* you mount it. When you are ready to mount an V3 Strobe, refer to Appendix A, "Mounting the V3 Strobe" for instructions.

All V3 Strobes are initially configured with the following default IP settings:

When configuring more than one V3 Strobe, attach the V3 Strobes to the network and configure one at a time to avoid IP address conflicts.

Table 2-5. Factory Default Settings

Parameter	Factory Default Setting
IP Addressing	DHCP
IP Address[a]	10.10.10.10
Web Access Username	admin
Web Access Password	admin
Subnet Mask[a]	255.0.0.0
Default Gateway[a]	10.0.0.1

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

2.2.1 V3 Strobe Web Page Navigation

Table 2-6 shows the navigation buttons that you will see on every V3 Strobe web page.

Table 2-6. Web Page Navigation

Web Page Item	Description
	Link to the **Home** page.
	Link to the **Update Firmware** page.

2.2.2 Log in to the Configuration Home Page

1. Open your browser to the V3 Strobe IP address.

Note If the network does not have access to a DHCP server, the device will default to an IP address of 10.10.10.10.

Note Make sure that the PC is on the same IP network as the V3 Strobe.

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:

http://www.cyberdata.net/support/voip/discovery_utility.html

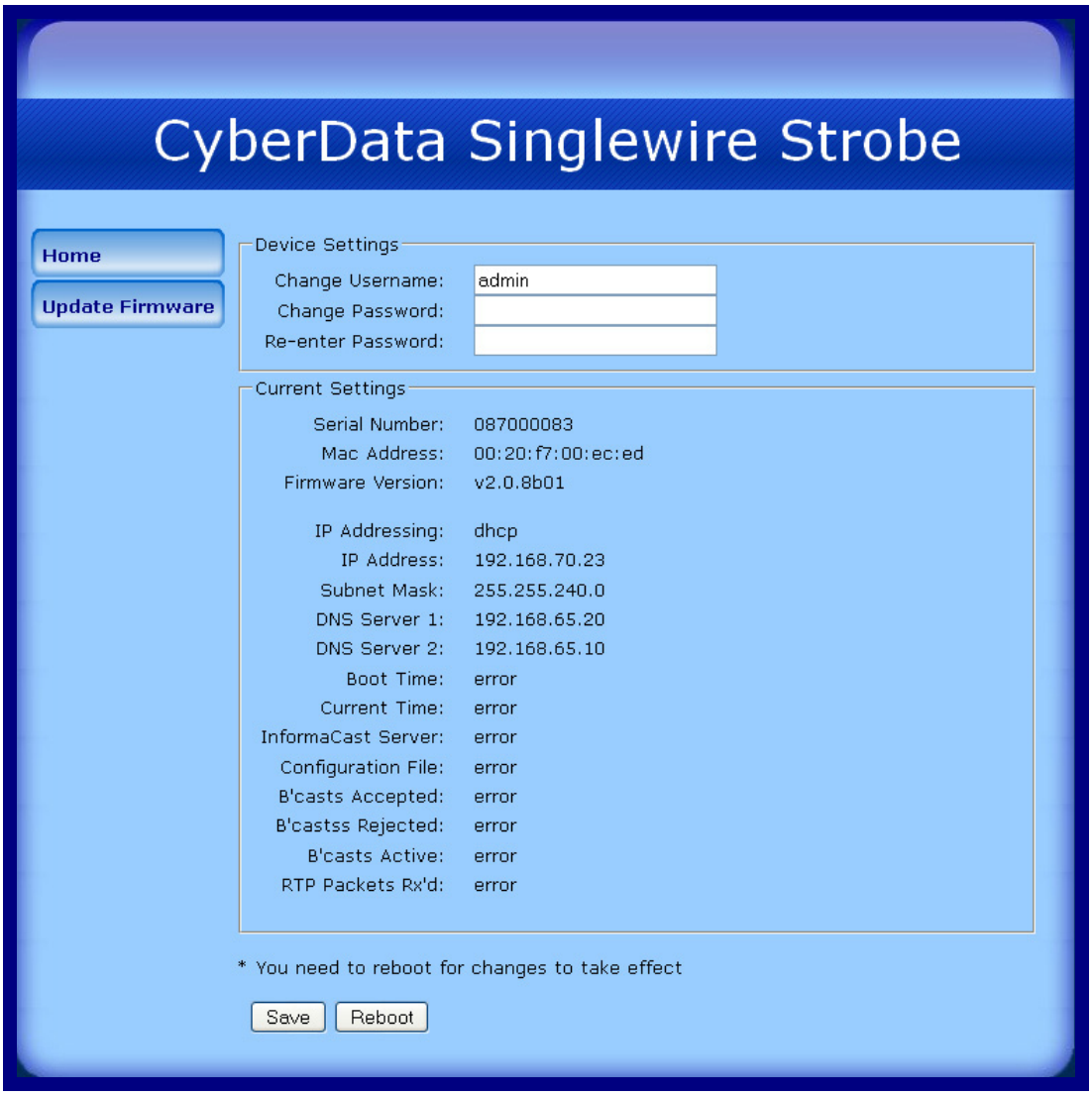
Note The V3 Strobe ships in DHCP mode. To get to the **Home** page, use the discovery utility to scan for the device on the network and open your browser from there.

2. When prompted, use the following default **Web Access Username** and **Web Access Password** to access the **Home Page** (Figure 2-10):

   Web Access Username: **admin**

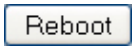
   Web Access Password: **admin**

Figure 2-10. Home Page



3. On the **Home Page**, review the setup details and navigation buttons described in Table 2-7.

Table 2-7. Home Page Overview

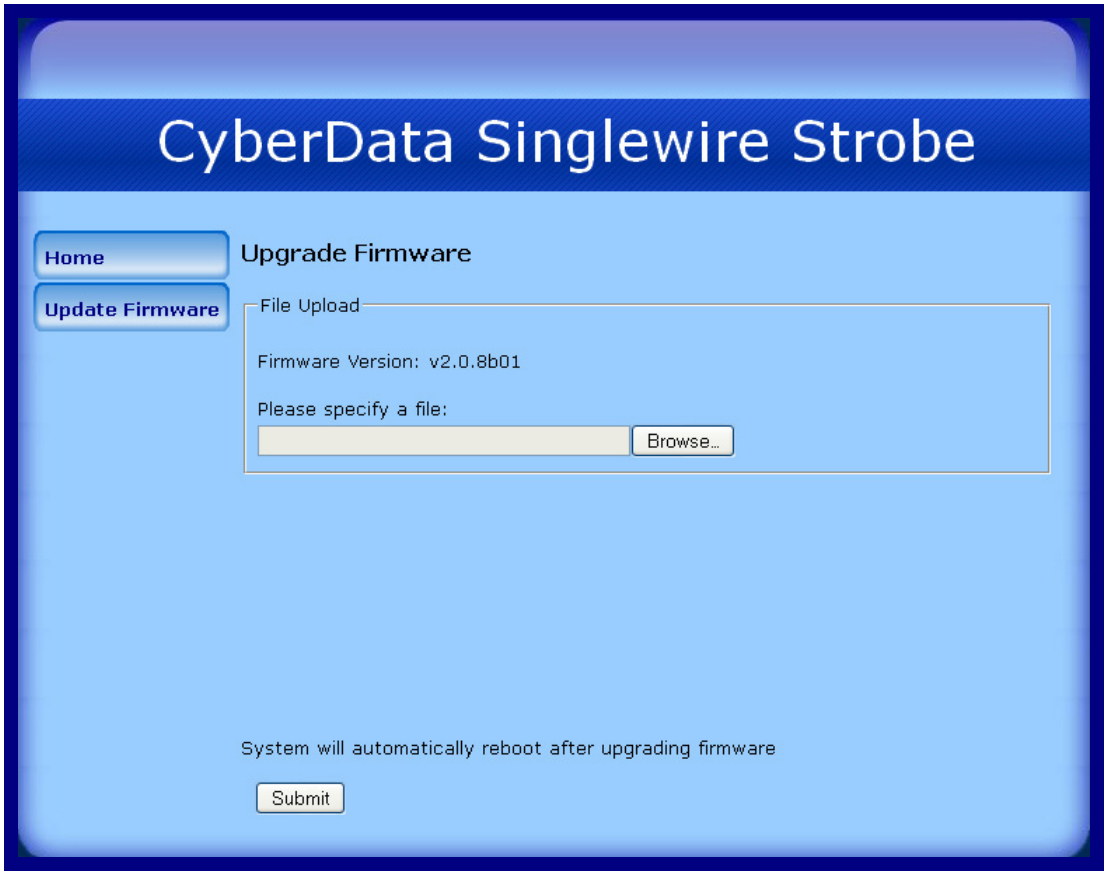
Web Page Item	Description
Device Settings	
Change Username	Type in this field to change the username.
Change Password	Type in this field to change the password.
Re-enter Password	Type the password again in this field to confirm the new password.
Current Settings	
Serial Number	Shows the device serial number.
Mac Address	Shows the device Mac address.
Firmware Version	Shows the current firmware version.
IP Addressing	Shows the current IP addressing setting (**DHCP** or **static**).
IP Address	Shows the current IP address.
Subnet Mask	Shows the current subnet mask address.
DNS Server 1	Shows the current DNS Server 1 address.
DNS Server 2	Shows the current DNS Server 2 address.
Boot Time	Shows the boot time.
Current Time	Shows the current time.
InformaCast Server	Shows the InformaCast Server IP address.
Configuration File	Shows the configuration file.
B'casts Accepted	Shows the number of B'casts accepted.
B'casts Rejected	Shows the number of B'casts rejected.
B'casts Active	Shows the number of active B'casts.
RTP Packets Rx'd	Shows the number of RTP packets Rx'd.
	Click the **Save** button to save your configuration settings. **Note**: You need to reboot for changes to take effect.
	Click on the **Reboot** button to reboot the system.

2.3 Upgrade the Firmware and Reboot the V3 Strobe

To upload the firmware from your computer:

1. Retrieve the latest V3 Strobe firmware file from the V3 Strobe **Downloads** page at:
   http://www.cyberdata.net/products/voip/digitalanalog/strobev3singlewire/downloads.html
2. Unzip the firmware version file. This file may contain the following:
   - Firmware file
   - Release notes
3. Log in to the V3 Strobe home page as instructed in Section 2.2.2, "Log in to the Configuration Home Page".
4. Click the **Update Firmware** button to open the **Upgrade Firmware** page. See Figure 2-11.

Figure 2-11. Upgrade Firmware Page

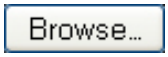


5. Select **Browse**, and then navigate to the location of the V3 Strobe firmware file.
6. Click **Submit**.

Note This starts the upgrade process. Once the V3 Strobe has uploaded the file, the **Uploading Firmware** countdown page appears, indicating that the firmware is being written to flash. The V3 Strobe will automatically reboot when the upload is complete. When the countdown finishes, the **Upgrade Firmware** page will refresh. The uploaded firmware filename should be displayed in the system configuration (indicating successful upload and reboot).

Table 2-8 shows the web page items on the **Upgrade Firmware** page.

Table 2-8. Firmware Upgrade Parameters

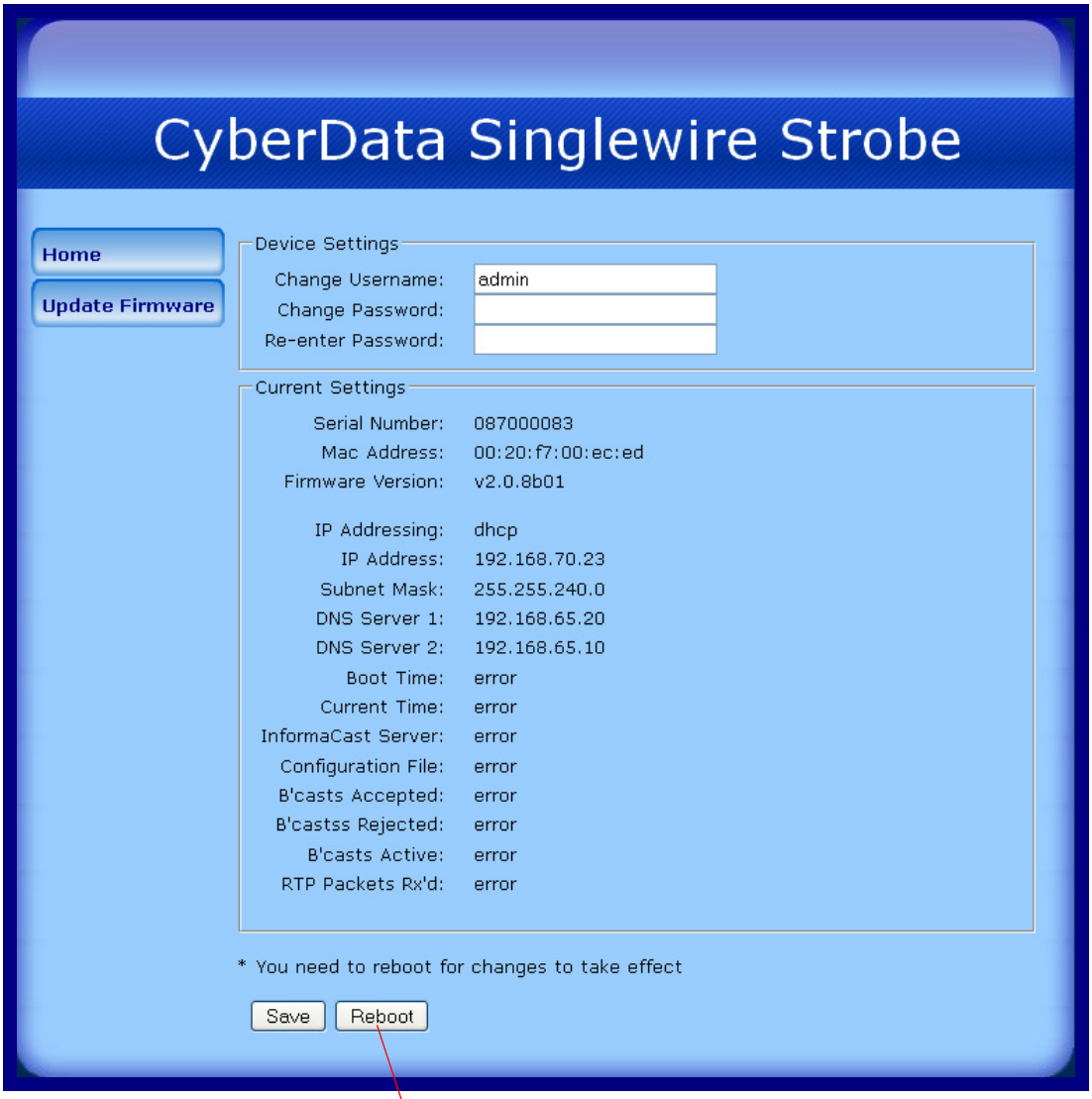
Web Page Item	Description
File Upload	
Firmware Version	Shows the current firmware version.
	Use the **Browse** button to navigate to the location of the firmware file that you want to upload.
	Click on the **Submit** button to automatically upload the selected firmware and reboot the system.

2.3.1 Reboot the V3 Strobe

To reboot a V3 Strobe:

1. Log in to the web page as instructed in Section 2.2.2, "Log in to the Configuration Home Page".

Figure 2-12. Reboot System Section



2. Click the **Reboot** button (Figure 2-12). A normal restart will occur.

Figure 2-13. Reboot Page

Appendix A: Mounting the V3 Strobe

A.1 Important Safety Instructions

Warning

Electrical Hazard: The V3 Strobe enclosure is not rated for any AC voltages.

Warning

Electrical Hazard: This product should be installed by a licensed electrician according to all local electrical and building codes.

Warning

Electrical Hazard: To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

Warning

The PoE connector is intended for intra-building connections only and does not route to the outside plant.

A.2 Mount the V3 Strobe

Before you mount the V3 Strobe, make sure that you have received all the parts for each V3 Strobe. Refer to Table A-1.

Table A-1. Wall Mounting Components (Part of the Accessory Kit)

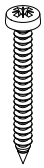
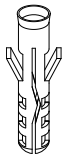
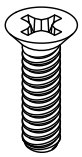
Quantity	Part Name	Illustration
4	#6 x 1.5 inches Sheet Metal Screw	
4	#6 Ribbed Plastic Anchor	

Table A-2. Gang Box Mounting Components

Quantity	Part Name	Illustration
4	#6-32 x 0.625-inch Flat-Head Machine Screw.	

After the V3 Strobe is assembled, plug the Ethernet cable into the V3 Strobe Assembly (see Figure A-1).

Section 2.1.4, "Network Connectivity, and Data Rate" explains how the **Link** and **Status** LEDs work.

Figure A-1. Network Connector Prior to Installation

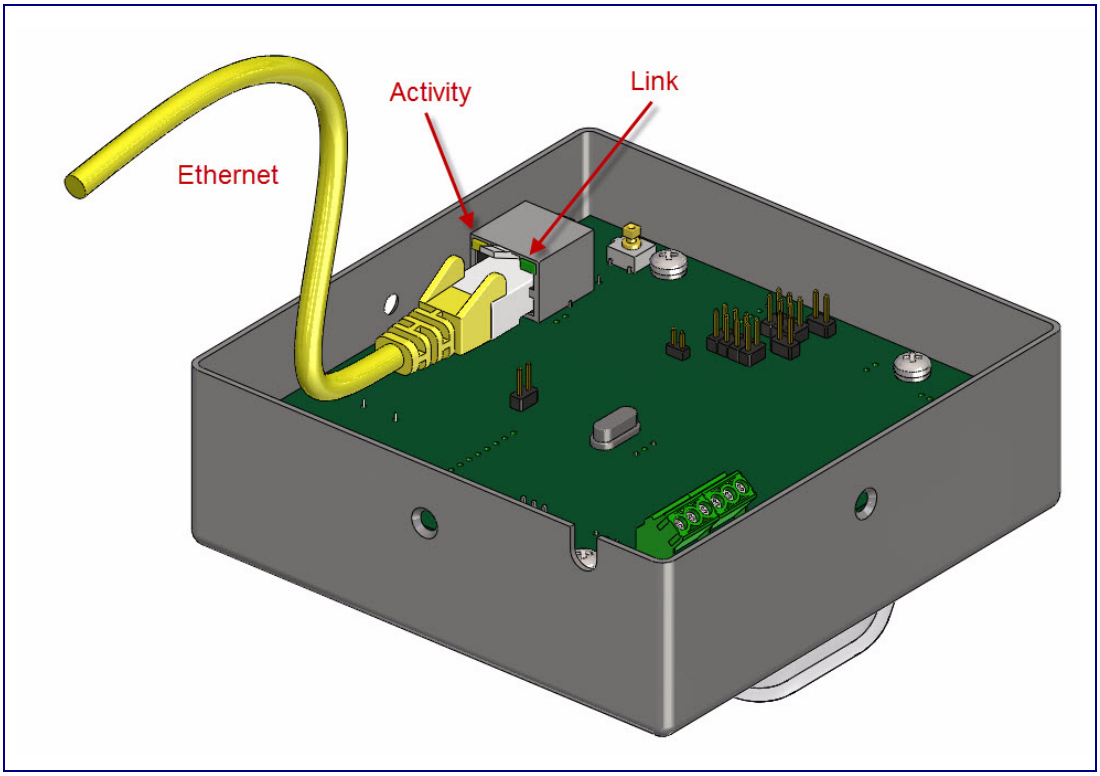


Figure A-2 shows the wall mounting options for the Singlewire-enabled V3 Strobe.

Note Be sure to connect the V3 Strobe to the Earth Ground.

Figure A-2. Wall Mounting Options

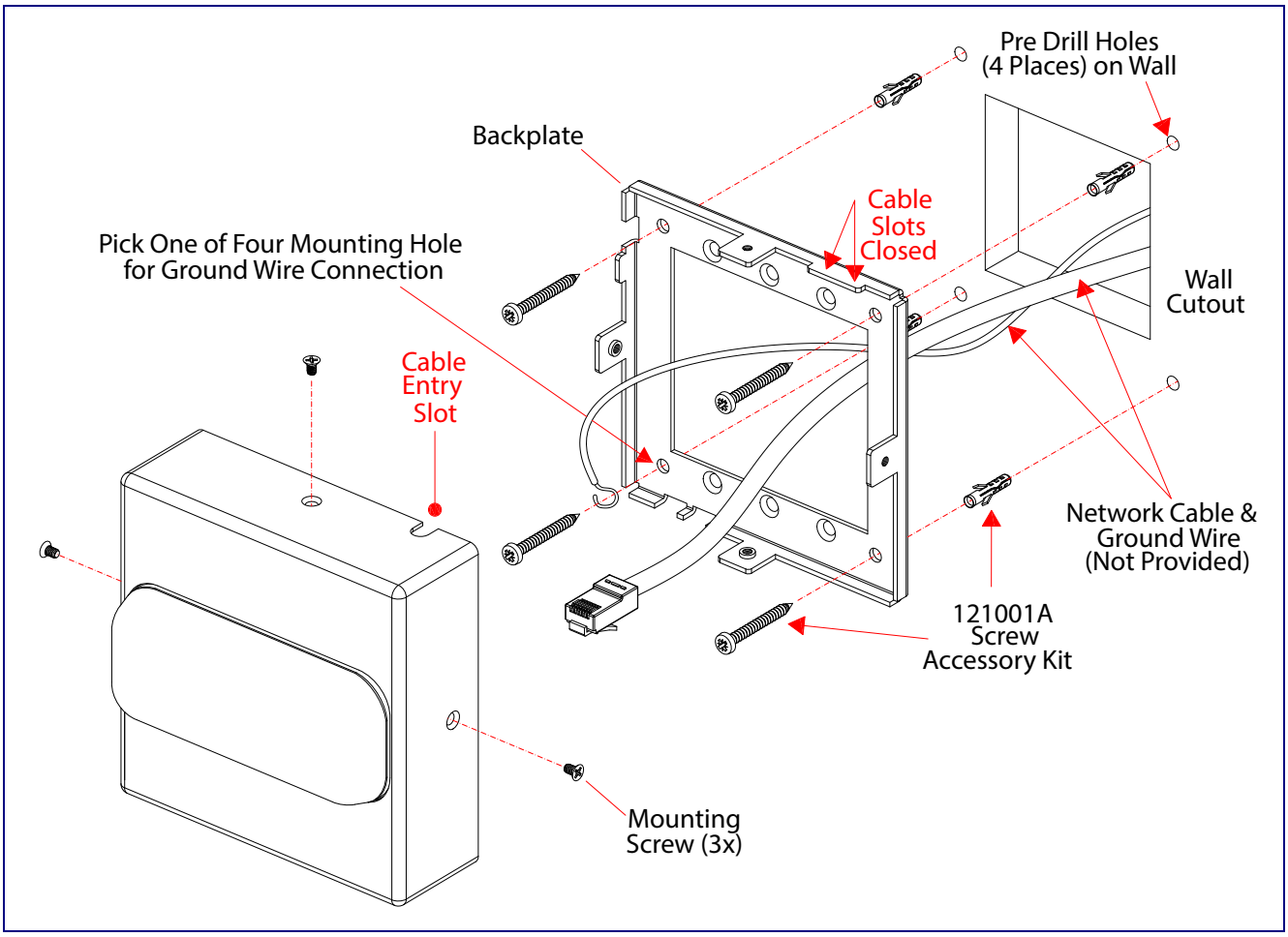


Figure A-3 shows the gang box mounting options for the Singlewire-enabled V3 Strobe.

Note Be sure to connect the V3 Strobe to the Earth Ground.

Figure A-3. Gang Box Mounting Options

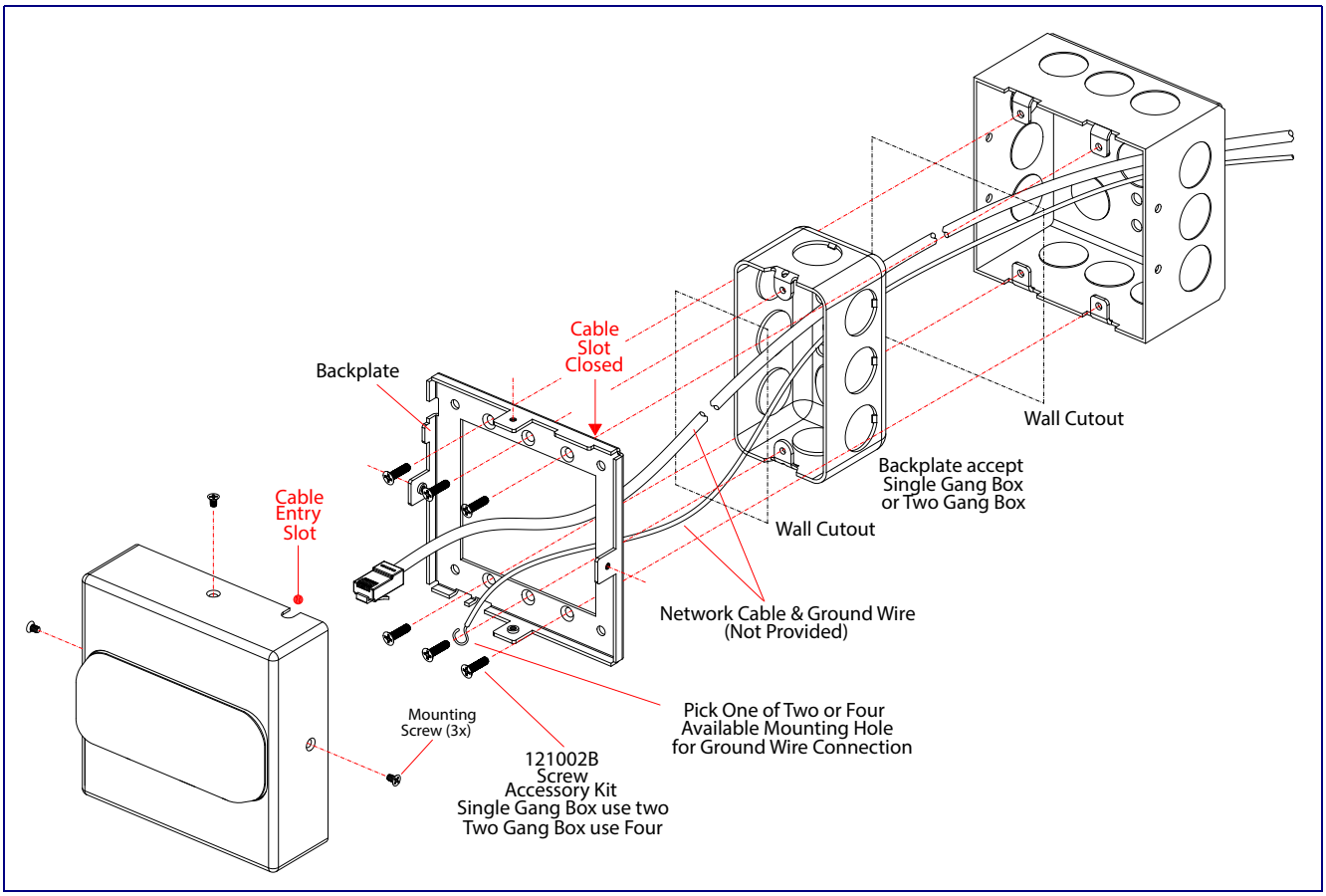
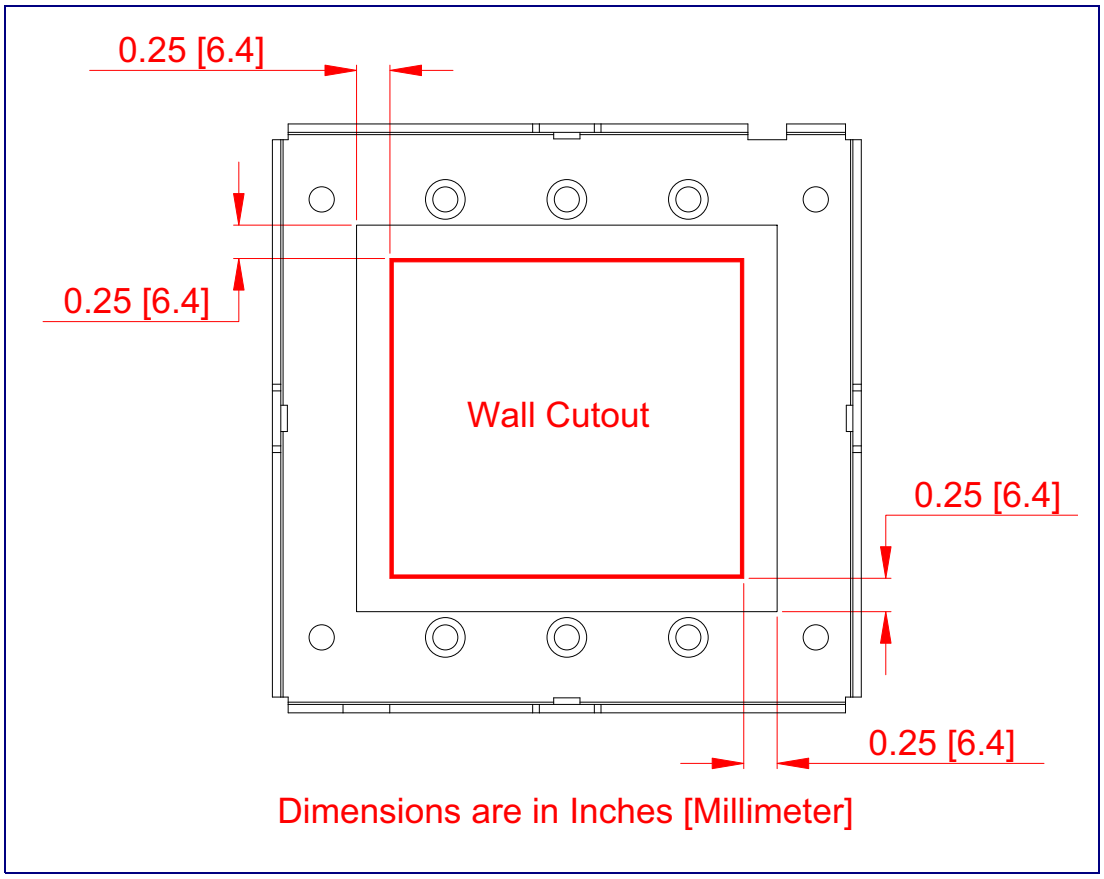


Figure A-4 shows the maximum recommended wall cutout dimensions for mounting the V3 Strobe.

Figure A-4. Maximum Recommended Wall Cutout Dimensions



Appendix B: Troubleshooting/Technical Support

B.1 Frequently Asked Questions (FAQ)

A list of frequently asked questions (FAQs) are available on the V3 Strobe product page at:

http://www.cyberdata.net/products/voip/digitalanalog/strobev3singlewire/docs.html

Select the support page for your product to see a list of frequently asked questions for the CyberData product:

B.2 Documentation

The documentation for this product is released in an English language version only. You can download PDF copies of CyberData product documentation from the V3 Strobe product page at:

http://www.cyberdata.net/products/voip/digitalanalog/strobev3singlewire/docs.html

B.3 Contact Information

Contact

CyberData Corporation
3 Justin Court
Monterey, CA 93940 USA
www.CyberData.net
Phone: 800-CYBERDATA (800-292-3732)
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:

http://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, Ext. 333
Email: support@cyberdata.net

Returned Materials Authorization

To return the product, contact the Returned Materials Authorization (RMA) department:

Phone: 831-373-2601, Extension 136
Email: RMA@CyberData.net

When returning a product to CyberData, an approved CyberData RMA number must be printed on the outside of the original shipping package. Also, RMA numbers require an active VoIP Technical Support ticket number. A product will not be accepted for return without an approved RMA number. Send the product, in its original package, to the following address:

CyberData Corporation
3 Justin Court
Monterey, CA 93940
Attention: RMA "your RMA number"

RMA Status Form

If you need to inquire about the repair status of your product(s), please use the CyberData RMA Status form at the following web address:

http://support.cyberdata.net/

B.4 Warranty and RMA Information

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

http://support.cyberdata.net/

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