CyberData

The IP Endpoint Company

InformaCast Enabled WiFi Alert Button Operations Guide

Part #*011527*

Document Part #*931788B*
for Firmware Version *2.4.0*

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InformaCast Enabled WiFi Alert Button Operations Guide 931788B
Part # 011527

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The IP Endpoint Company

Technical Support

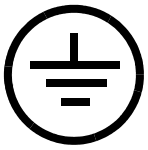
The fastest way to get technical support for your VoIP product is to submit a VoIP Technical Support form at the following website:
http://support.cyberdata.net/

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

Revision Information

Revision 931788B, which corresponds to firmware version 2.4.0, was released on February 25, 2021.

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 device enclosure is not rated for any AC voltages!**

Contents

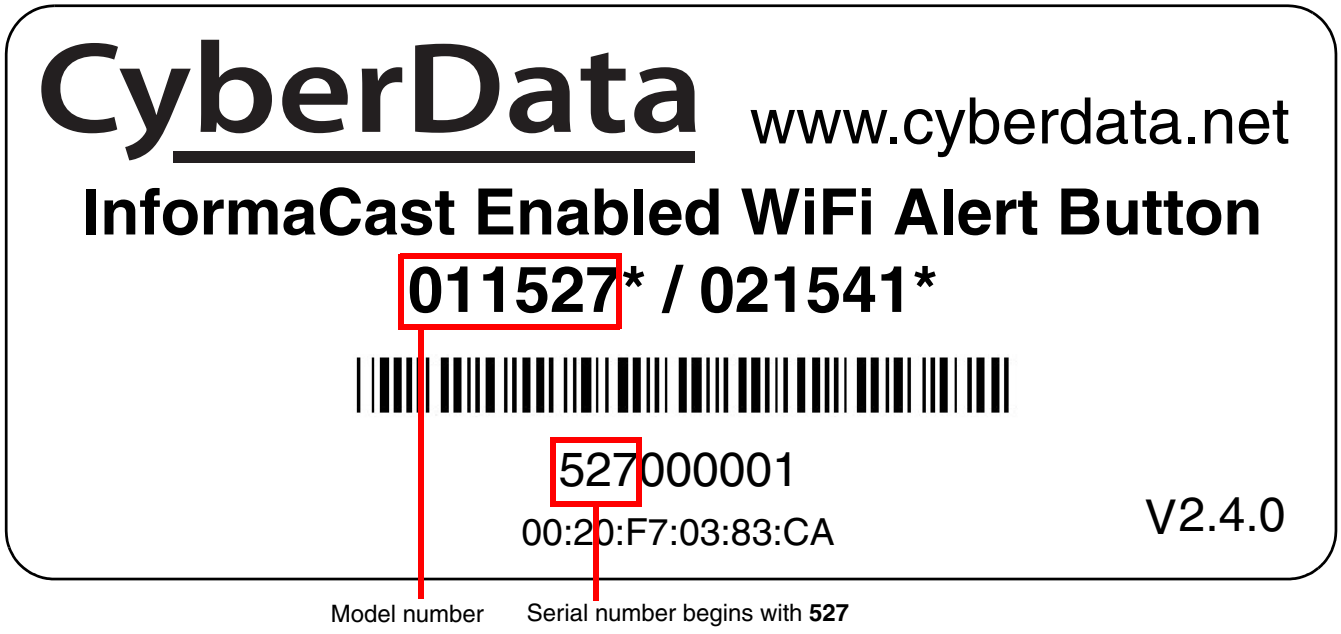
1 Product Overview and Setup

1.1 How to Identify This Product

To identify the InformaCast Enabled WiFi Alert Button, look for a model number label similar to the one shown in
Figure 1-1. Confirm the following:

- The model number on the label should be **011527**.
- The serial number on the label should begin with **527**.

Figure 1-1. Model Number Label



1.2 Product Features

- Large lighted color button
- Adjustable button brightness, blink rates and activation time
- Adjustable buzzer
- +5V power from USB wall charger with 3ft cable (included)
- 4 hours operation on built-in back-up battery

- 802.11 b/g/n WiFi support
- WPA2 PSK
- WiFi Configuration/Discovery Tool
- Network battery diagnostic monitoring
- Over-the-air upgradeable firmware
- Logging functions

1.3 Product Specifications

Table 1-1. Product Specifications

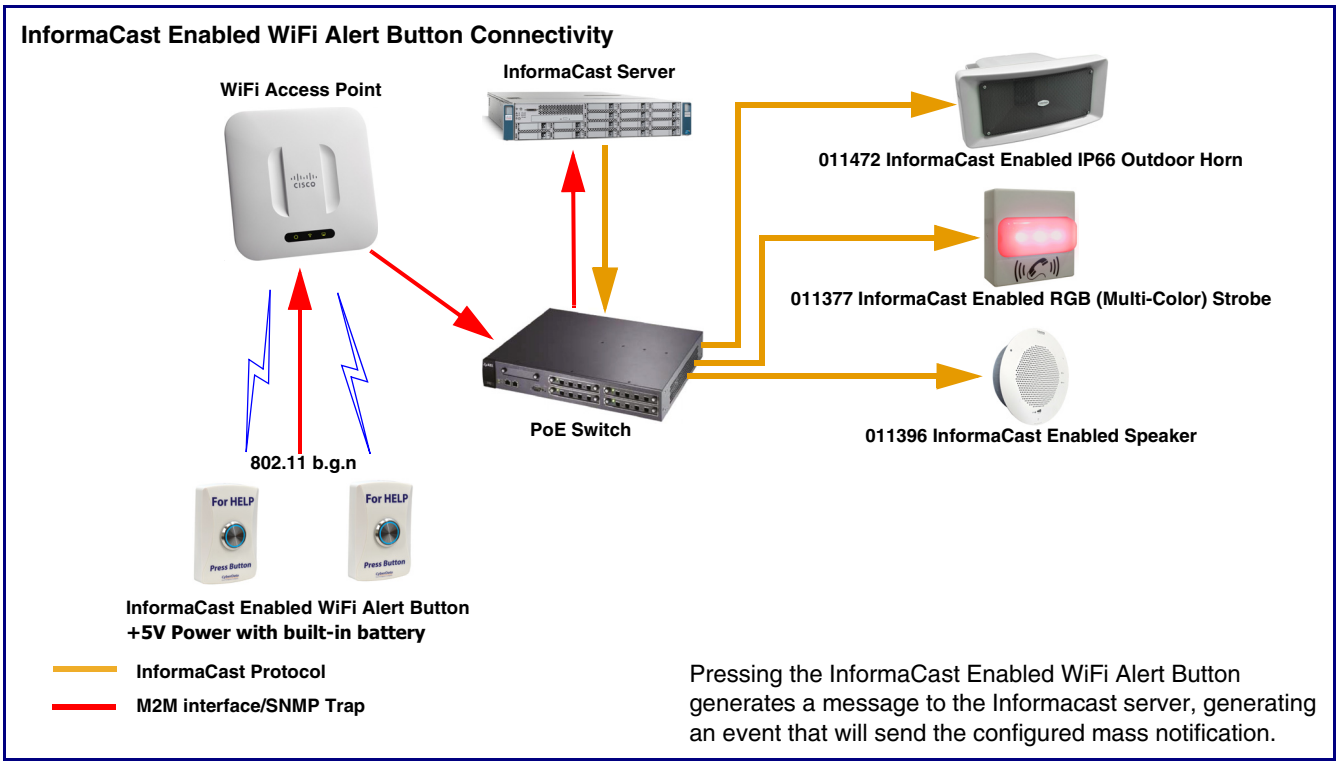
Specifications	
Wi-Fi	802.11 b/g/n
On Board PCB Antenna	Gain of 3.7 dBi
Power	External +5 Volt supply
Battery backup	Up to four hours
Operating Range	Temperature: -40° C to 55° C (-40° F to 131° F)
	Humidity: 5-95%, non-condensing
Storage Temperature	-40° C to 70° C (-40° F to 158° F)
Storage Altitude	Up to 15,000 ft. (4573 m)
Dimensions[a]	Length: 2.95 in. [75 mm]
	Width: 1.01 in. [25.7 mm]
	Height: 4.53 in. [115 mm]
Weight	0.25 lbs. [0.11 kg]
Boxed Weight	0.45 lbs. [0.2 kg]
Compliance	RoHS Compliant
Warranty	2 Years Limited
Part Number	011527

a. Dimensions are measured from the perspective of the product being upright with the front of the product facing you.

1.4 Typical Installation

Figure 1-2 shows the typical installation for the InformaCast Enabled WiFi Alert Button.

Figure 1-2. Typical Installation

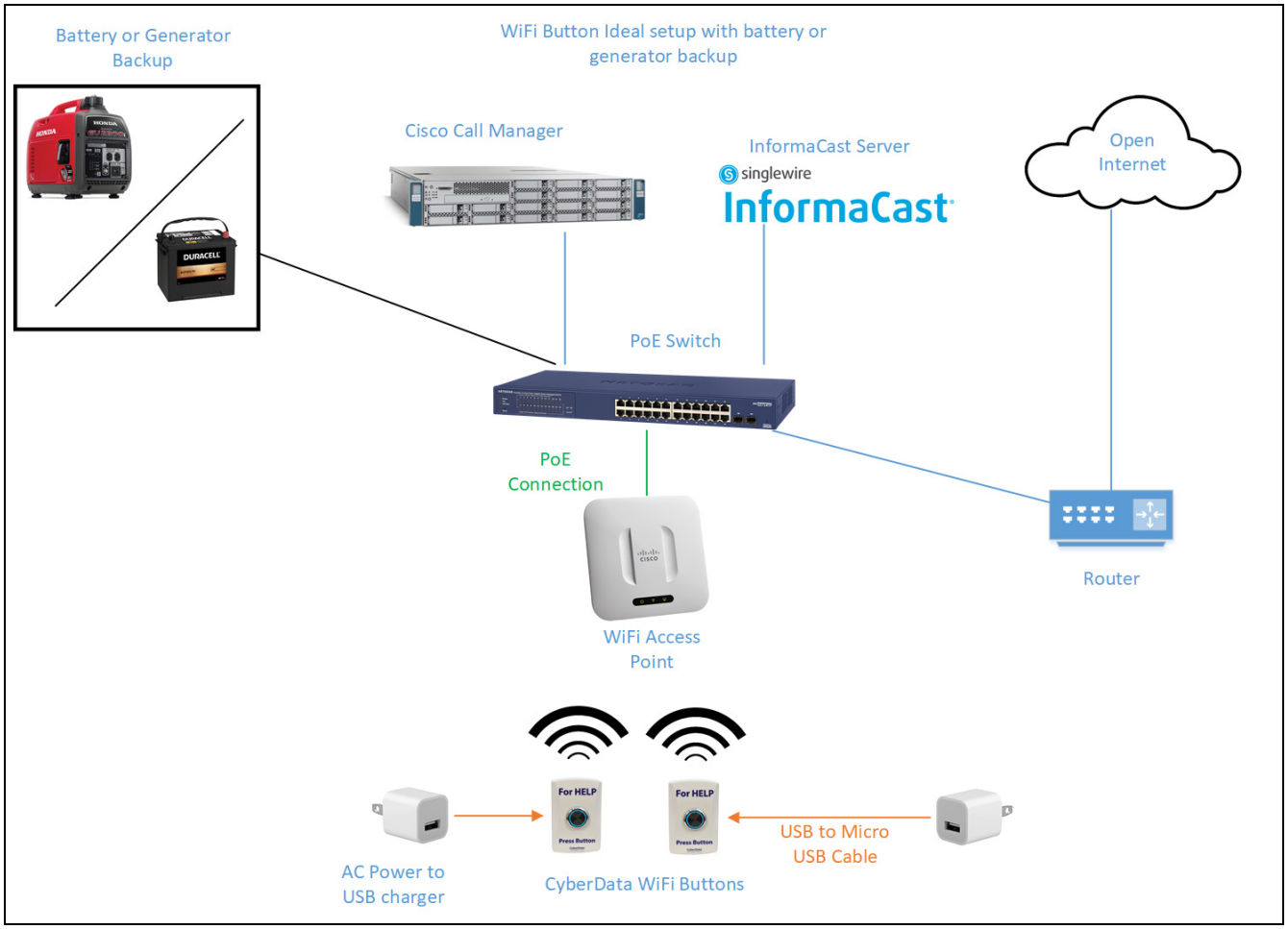


Note Since the M2M Contact Closures require the IP Address of the button to function as expected, it is recommended to set up the button with either a Static IP Address or a DHCP Address reservation.

1.5 Battery Back-Up Example Use Case

The CyberData InformaCast Enabled WiFi Alert Button interacts with InformaCast over a WiFi network. When used on a network with battery back up or generator power redundancy, the onboard batteries of the buttons allow emergency notifications to be sent in the event of power failure. See Figure 1-3.

Figure 1-3. Example Use Case



Note Since the M2M Contact Closures require the IP Address of the button to function as expected, it is recommended to set up the button with either a Static IP Address or a DHCP Address reservation.

1.6 Setting up the Power Connections

Figure 1-4. Enable the Battery Before Installation

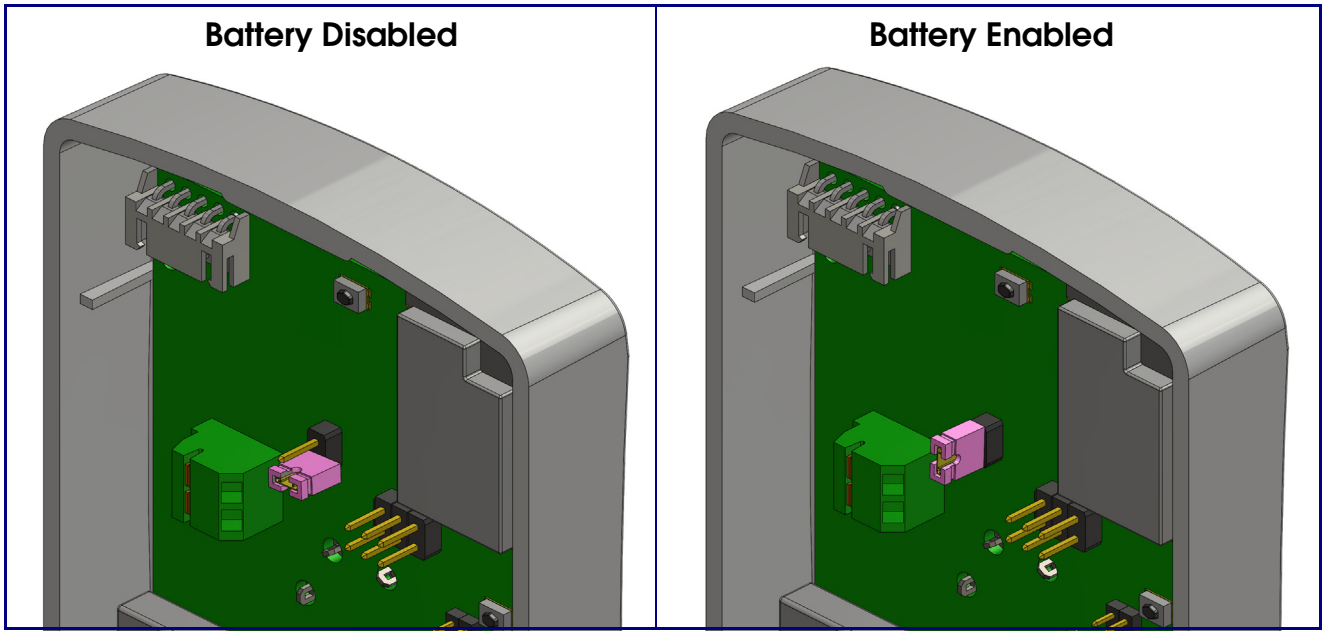


Figure 1-5. J1 Power Connection

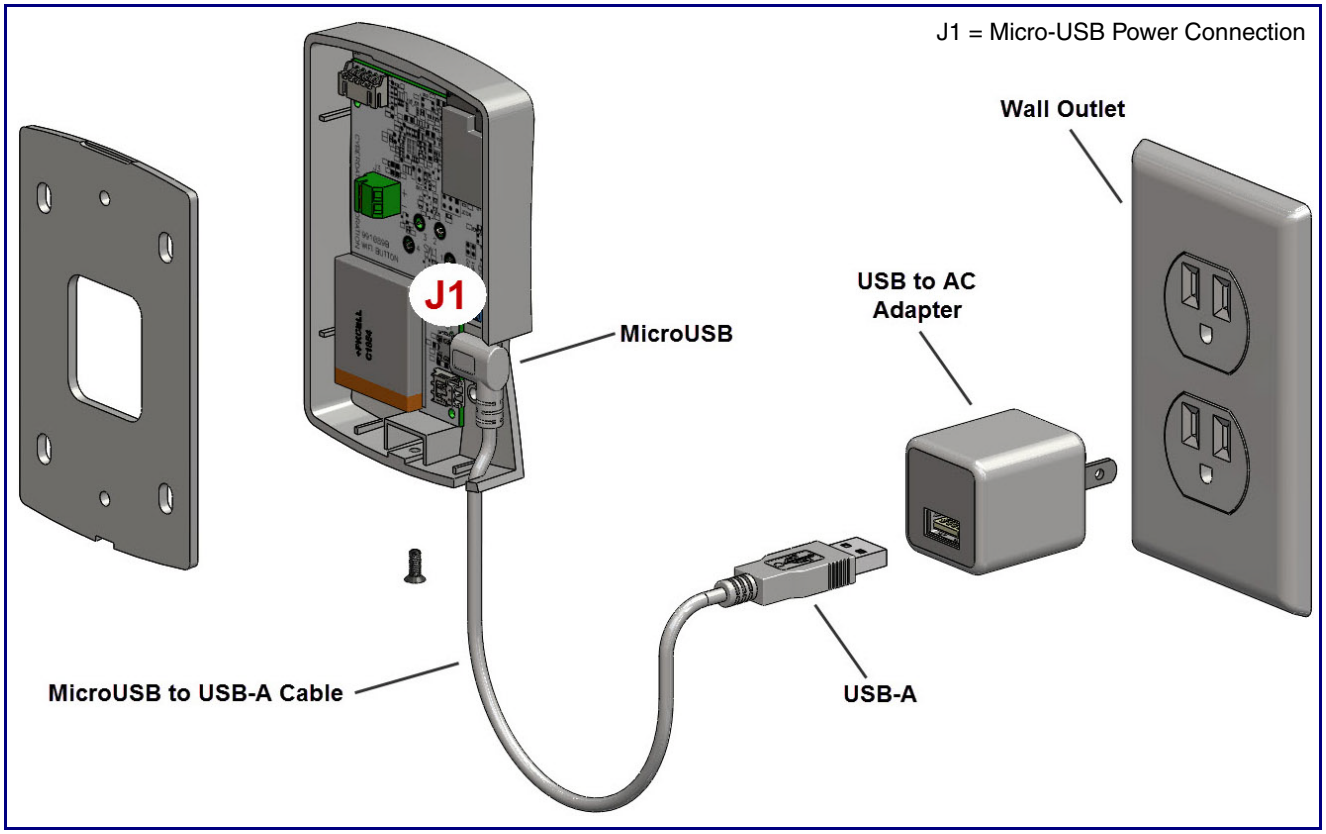
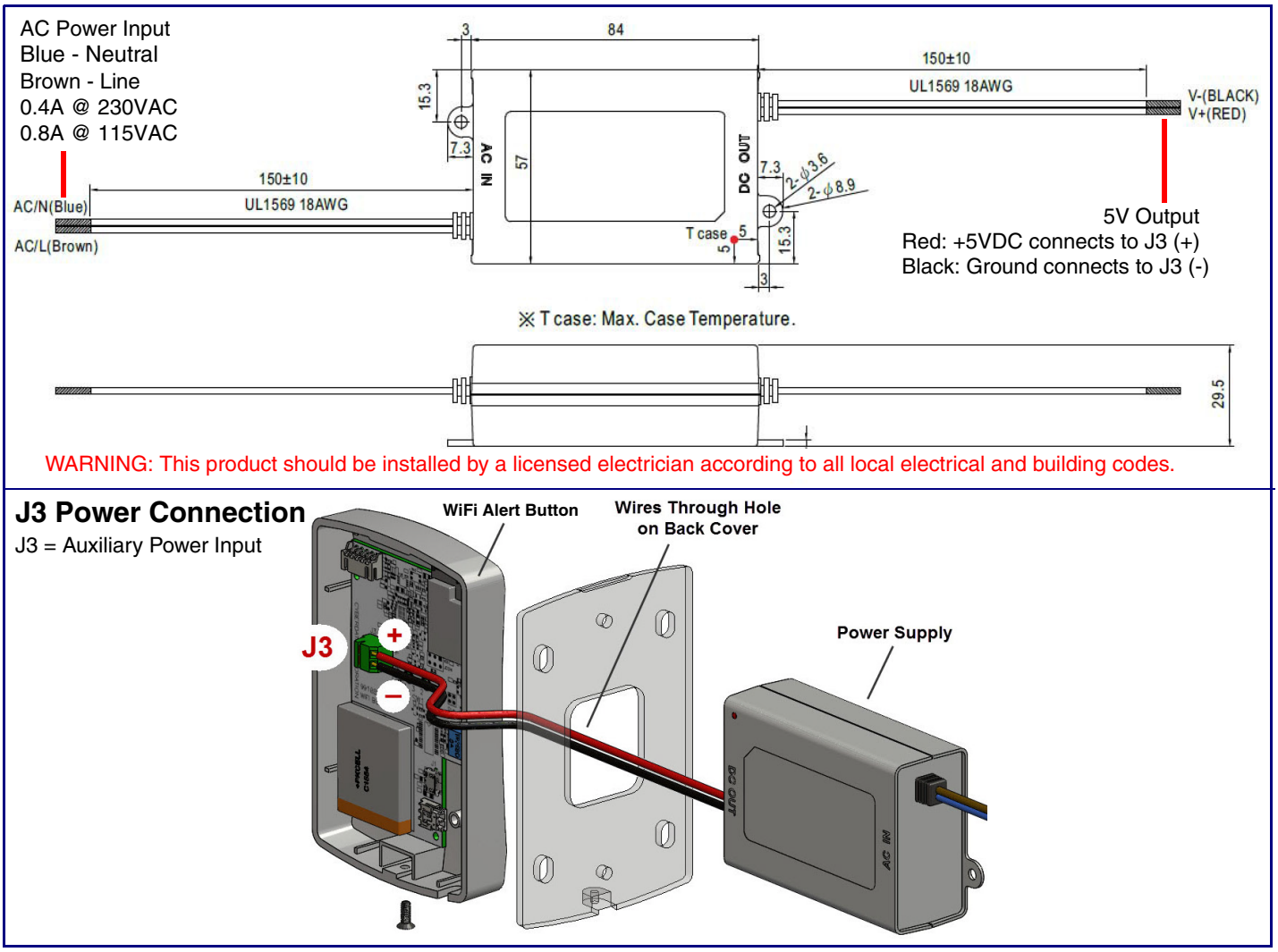


Figure 1-6. Optional Auxiliary Power Supply (Part #011542 [Sold Separately])



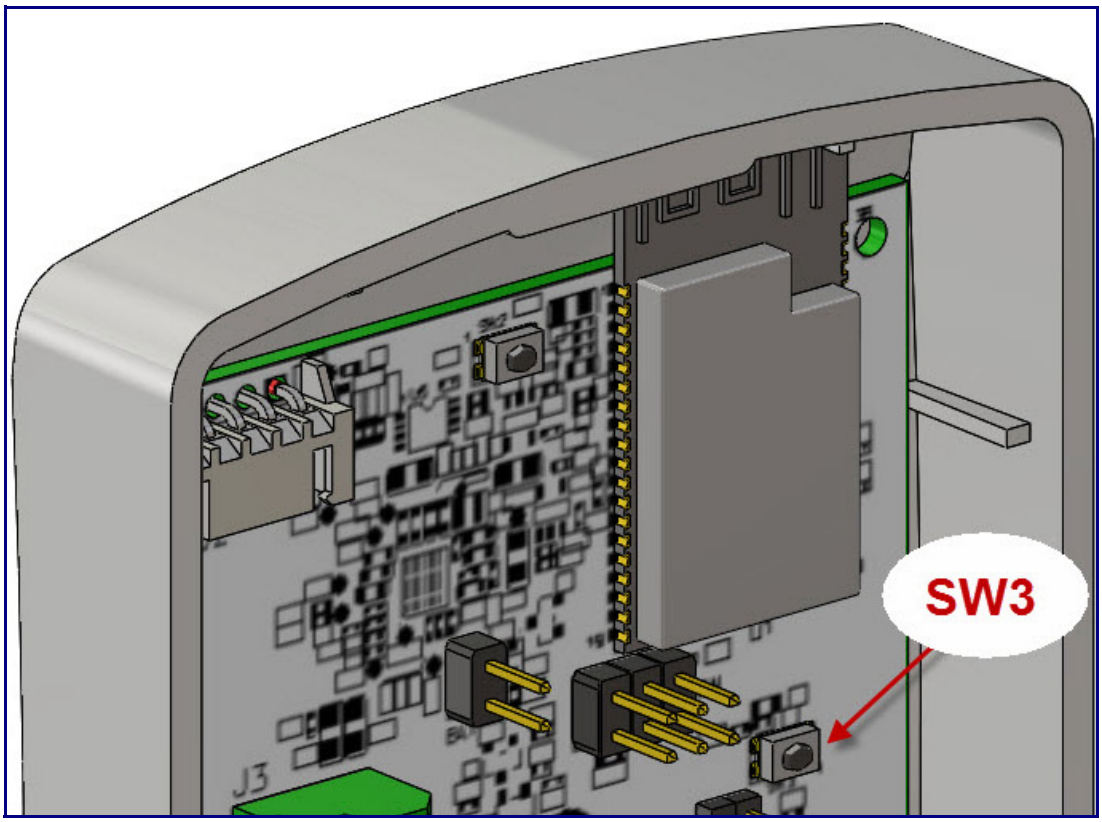
1.7 Restoring the Factory Default Settings

When the device is operational and linked to a network, you can use the Reset Test Function Management (RTFM) button (SW3 [Figure 1-7]) to restore the device to the factory default settings.

To restore the factory default settings, do one of the following:

- Press and hold the RTFM button (see **SW3** in Figure 1-7) for three seconds.
- Click on the **Reset to Factory** button on the **Device Configuration** page (Figure 2-3).

Figure 1-7. RTFM Button (SW3)



2 Configure the Device Parameters

2.1 Display Windows

2.1.1 WiFi Button Utility Window

The **WiFi Button Utility** window (Figure 2-1) is displayed automatically when the utility software is opened. It provides a summary of connected devices and serves as a gateway to other windows in the utility. See Table 2-1, "Main Window Buttons.".

Figure 2-1. WiFi Button Utility

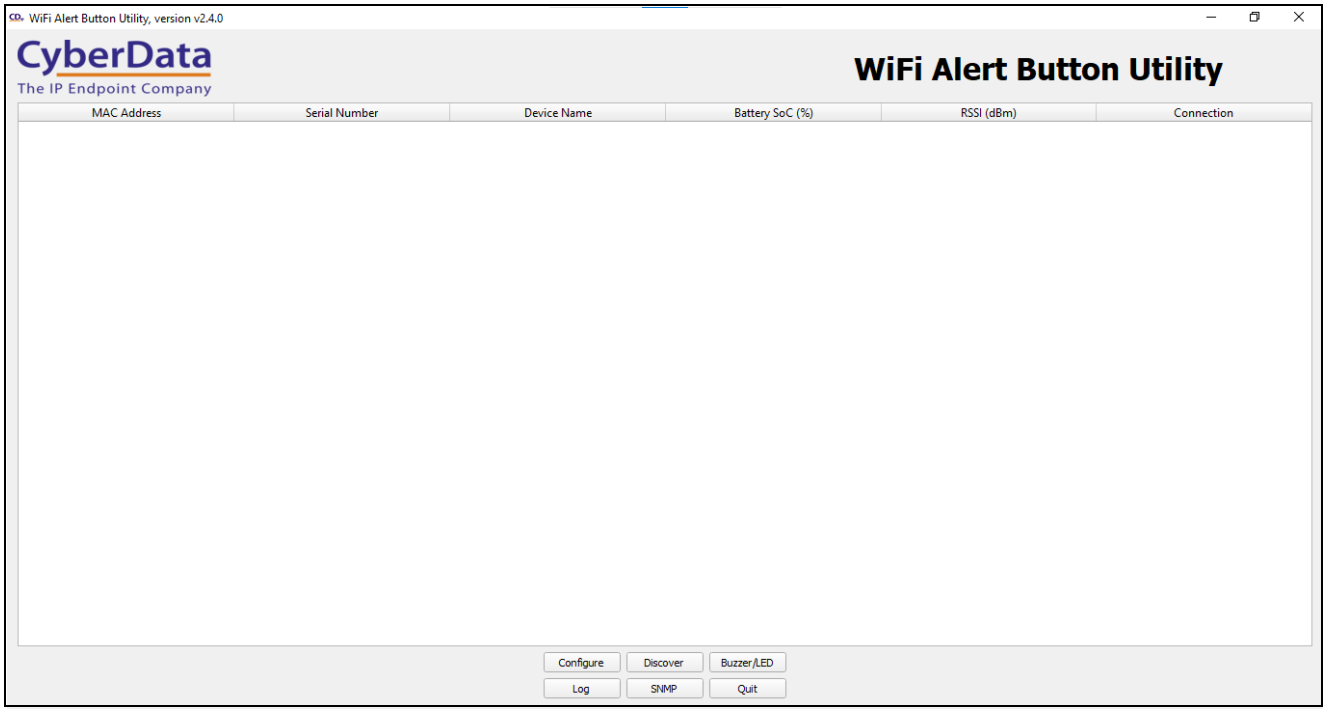
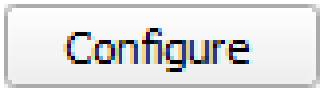


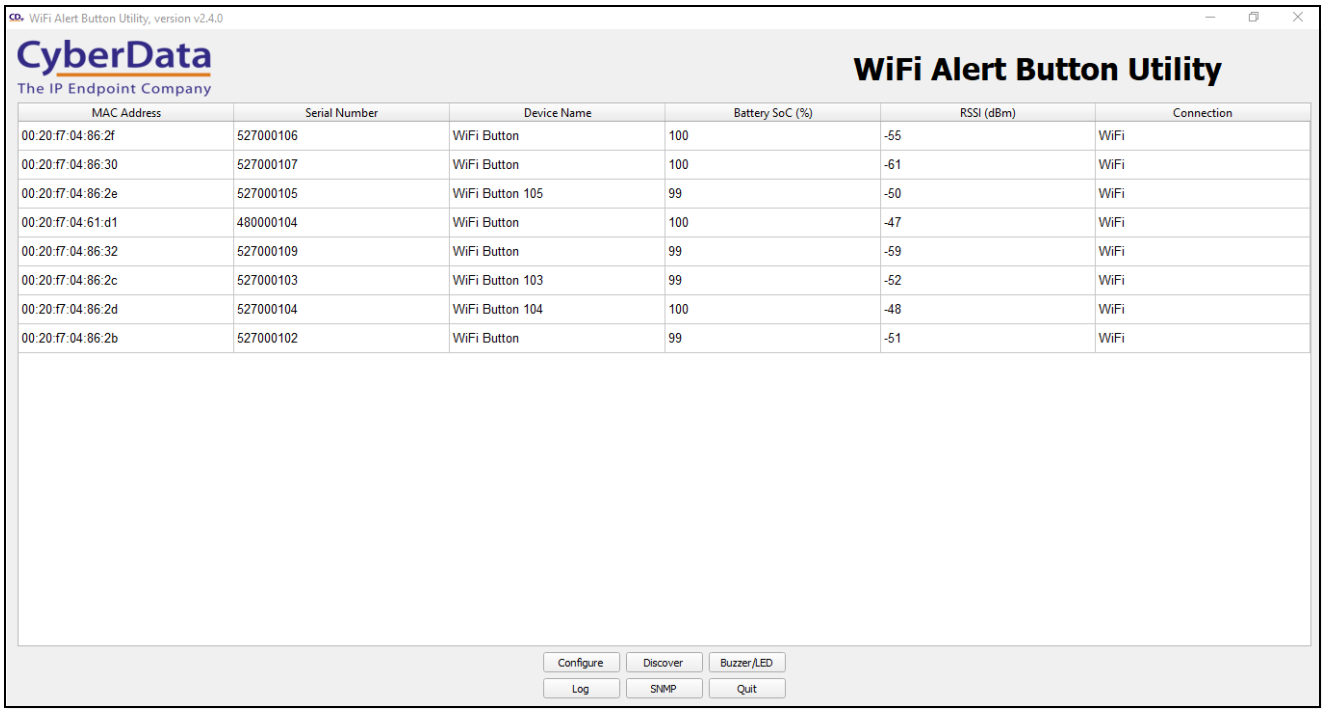
Table 2-1. Main Window Buttons

Window Item	Description
	Pressing the **Edit** button will take the user to the **Device Configuration** window. See Section 2.1.3, "Device Configuration Window."
	Pressing the **Discover** button will refresh the list of devices.
	Pressing the **Buzzer/LED** button will take the user to the **Buzzer/LED** Behavior window. See Section 2.1.5, "Buzzer/LED Behavior Window."
	Pressing the **Log** button will take the user to the **Log** window. See Section 2.1.6, "Log Messages Window."
	Pressing the **SNMP** button will take the user to the **SNMP Servers** window. See Section 2.1.4, "SNMP Servers Window."
	Pressing the **Quit** button will exit the application.

2.1.2 WiFi Button Utility Populated After Discovery Request

If the **Discover** button has been pressed (see Table 2-1, "Main Window Buttons" or Section 2.1.2, "WiFi Button Utility Populated After Discovery Request"), at the top of the **WiFi Button Utility** window is a list of all devices that have responded to the most recent discovery request. Clicking on a line in this summary will focus on the device in that line for future commands. See Figure 2-2.

Figure 2-2. WiFi Button Utility Populated



2.1.3 Device Configuration Window

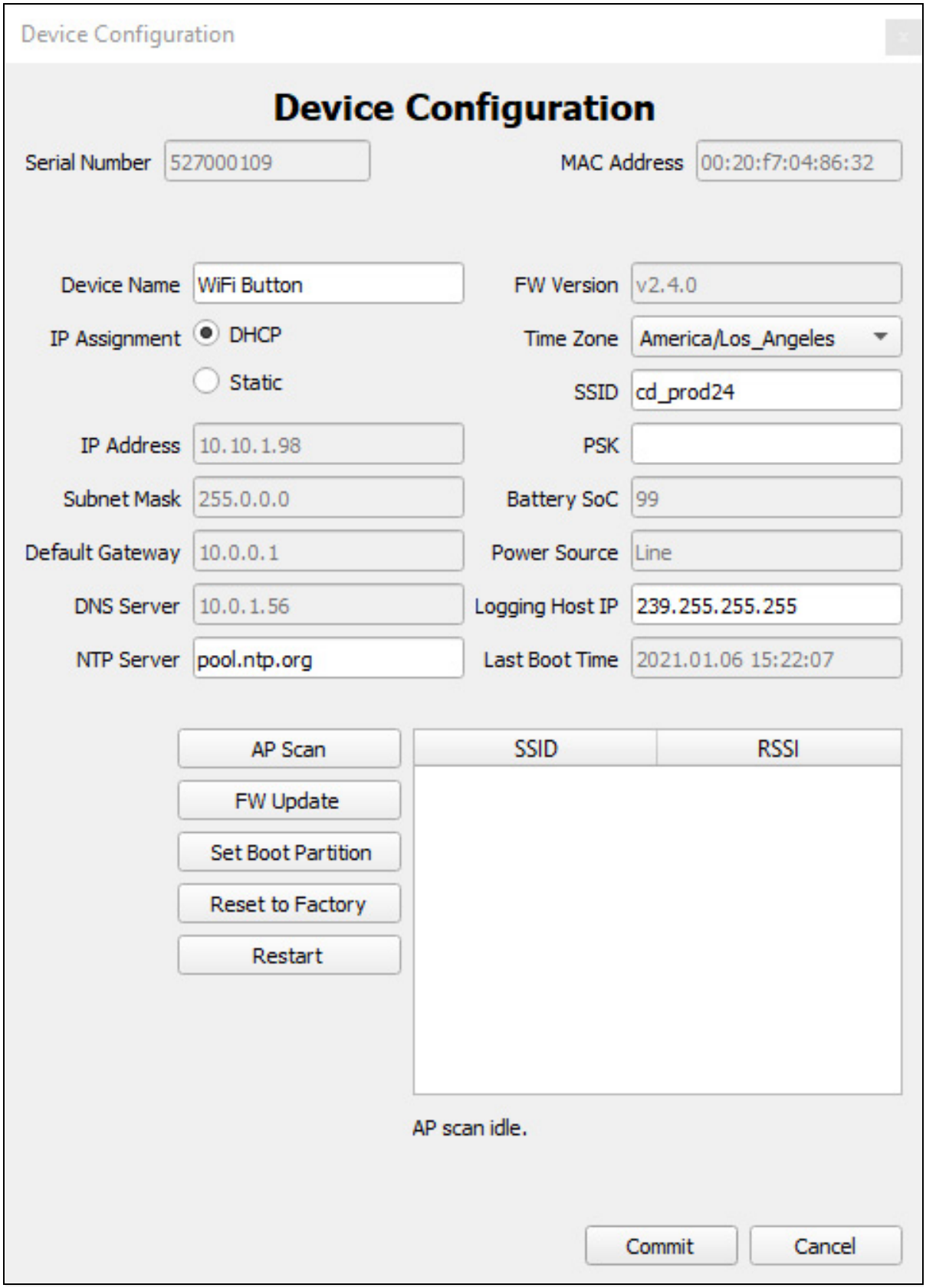
Pressing the **Configure** button (Table 2-1, "Main Window Buttons") will take the user to the **Device Configuration** window (see Figure 2-3).

The **Device Configuration** window contains detailed information about the selected device. At the top of the window are the serial number and MAC address of the device. These fields are disabled.

Below the serial number and MAC address are several fields, most of which are editable. The user can configure the device by editing these fields and pressing the **Commit** button (Table 2-2, "Device Configuration Parameters"). A confirmation dialog will appear, and the success of the configuration will appear in a message box. If the user presses the **Cancel** button (Table 2-2, "Device Configuration Parameters"), all changes are discarded.

The **Device Configuration** window is also used for various command functions. See Table 2-2, "Device Configuration Parameters."

Figure 2-3. Device Configuration Window



The **Device Configuration** window can be used for various command functions. See Table 2-2, "Device Configuration Parameters."

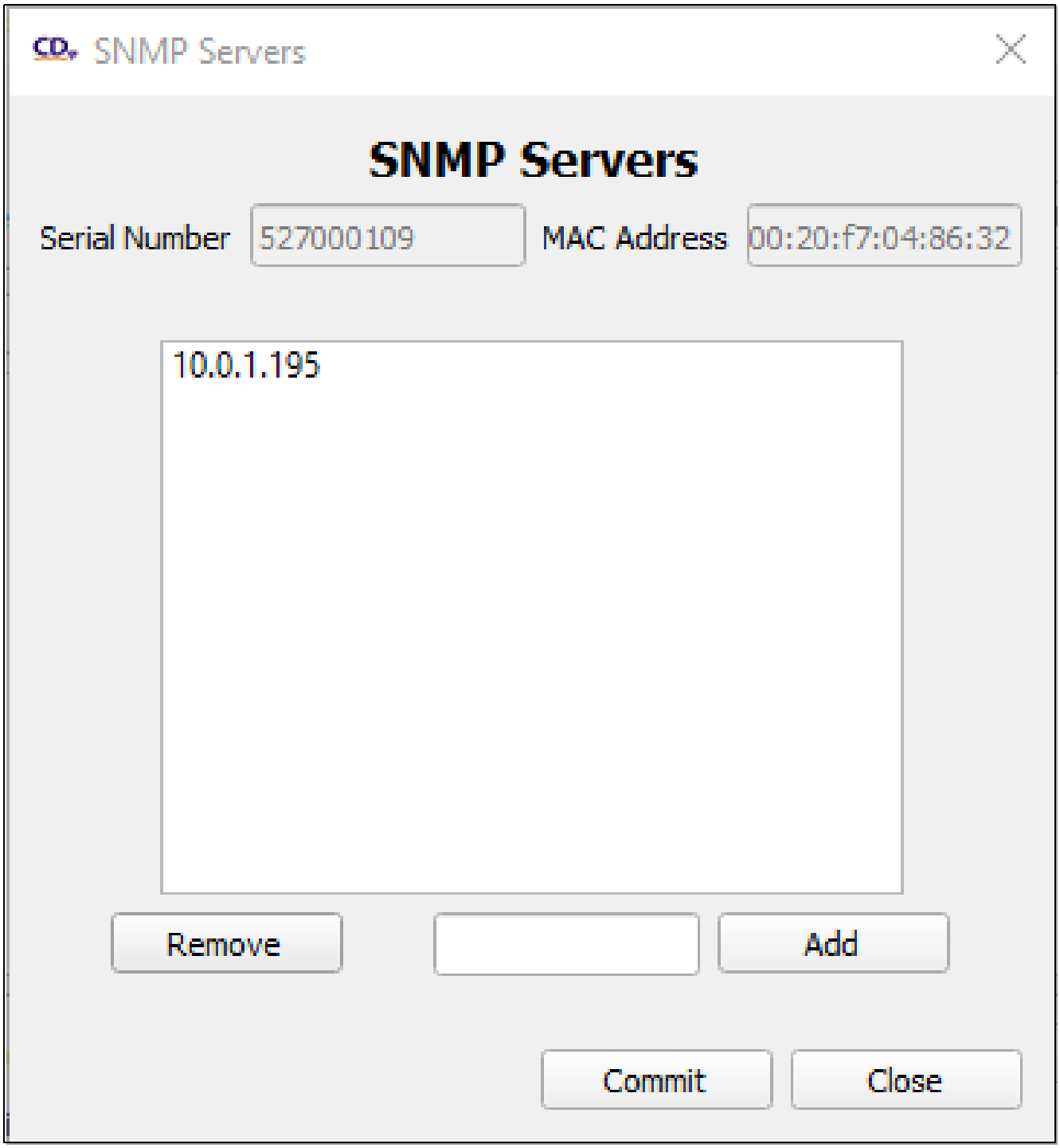
Table 2-2. Device Configuration Parameters

Window Item	Description
AP Scan	Pressing the **AP Scan** button will cause the device to initiate a scan for available Wifi Stations. When the scan is complete, the stations found will be displayed in a window. Station information includes the station's Service Set Identifier (SSID) and Received Signal Strength Indicator (RSSI).
Restart	Pressing the **Restart** button will cause the device to perform a warm start.
FW Update	Pressing the **FW Update** button will initiate a procedure in which the user selects a FW file from the host's file system, and applies that file to the device. When the transfer is complete, a message will display in a dialog box. Note that the device will not begin using the newly-applied FW until a restart is performed.
Set Boot Partition	The device maintains two copies of firmware. By default, the device operates from the most recently applied copy. Pressing the **Set Boot Partition** button gives the user the ability to use the other copy. This could be useful if a problem is detected in a newly-applied copy of the firmware.
Reset to Factory	When the user presses the **Reset to Factory** button, the device will be reset to the factory default settings.
Commit	When the user presses the **Commit** button, the changes are saved, and the change is confirmed in a dialog box.
Cancel	When the user presses the **Cancel** button, the window is dismissed and no changes are saved.

2.1.4 SNMP Servers Window

Pressing the **SNMP** button (Table 2-1, "Main Window Buttons") will open the **SNMP Servers** window. See Figure 2-4.

Figure 2-4. SNMP Servers Window

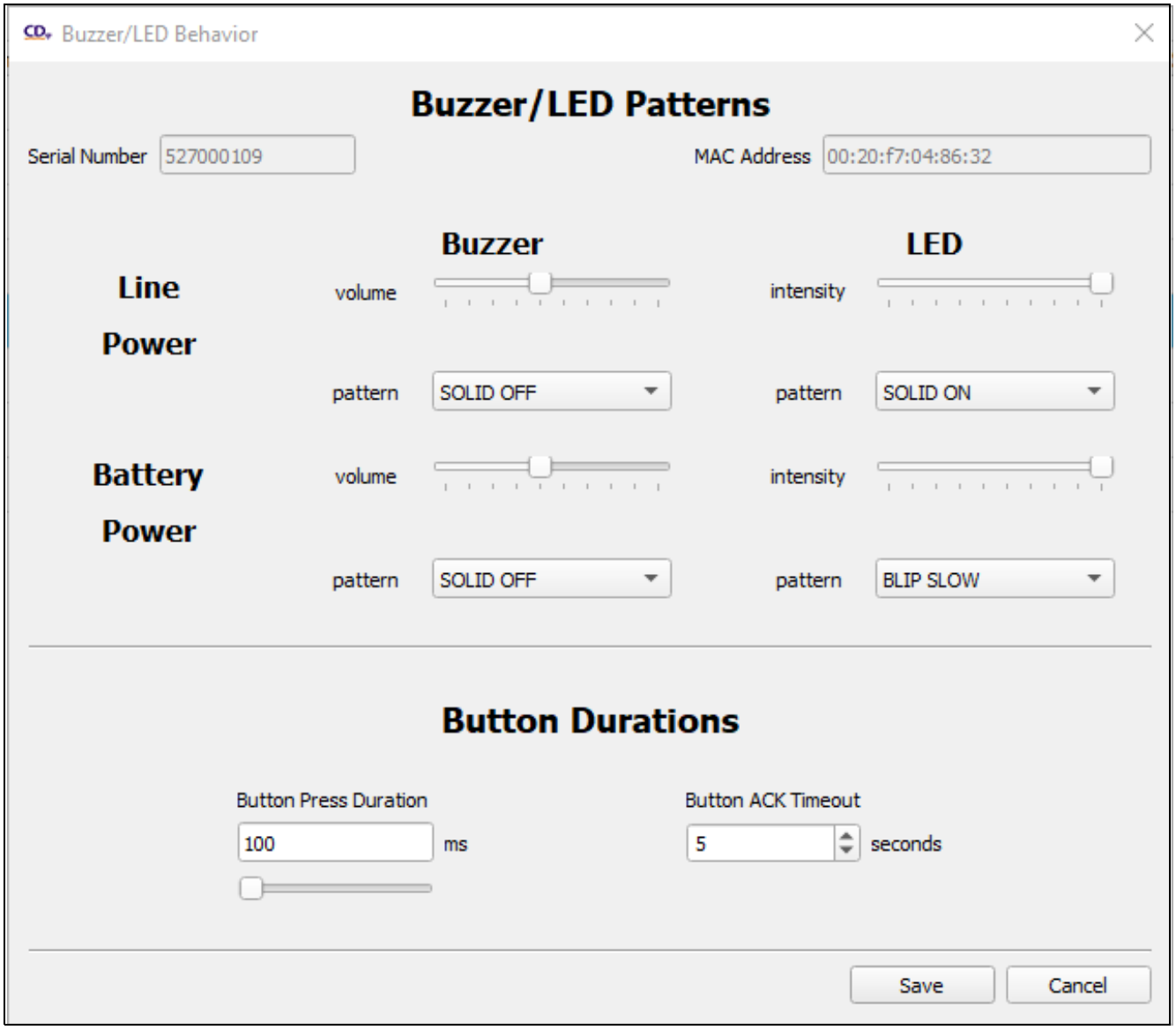


2.1.5 Buzzer/LED Behavior Window

Pressing the **Buzzer/LED** button (Table 2-1, "Main Window Buttons") will take the user to the **Buzzer/LED Behavior** window. See Figure 2-5.

The **Buzzer/LED Behavior** window allows the user to set the desired blink and buzz patterns for the buttons. There are different settings available for on AC power or on battery power.

Figure 2-5. Buzzer/LED Behavior Window



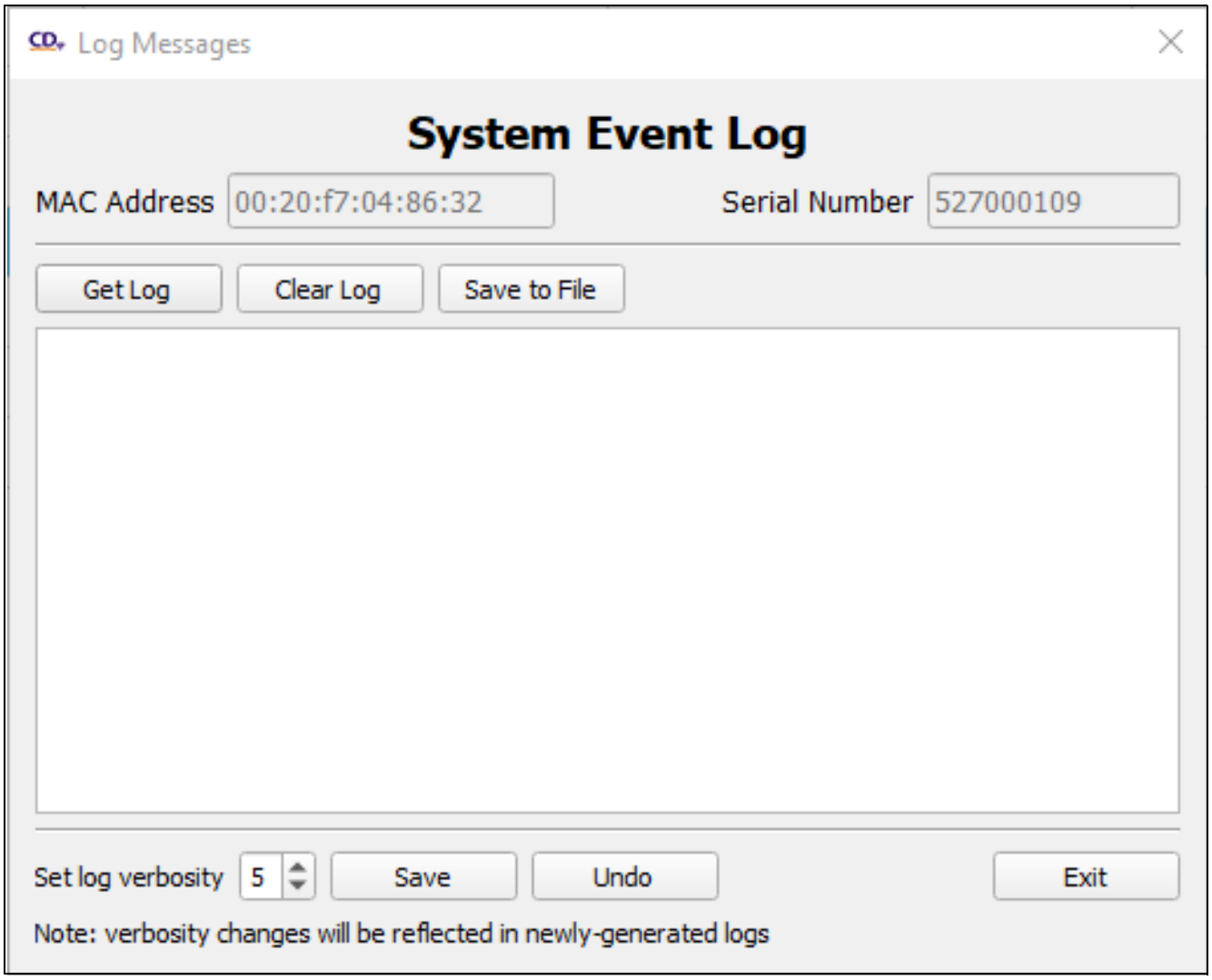
2.1.6 Log Messages Window

Pressing the **Log** button (Table 2-1, "Main Window Buttons") will take the user to the **Log Messages** window. See Figure 2-6.

The **Log Messages** window gives the user the ability to view (and optionally clear) the system log messages stored on the device. The user may also select a log verbosity level from 0 to 9.

The log verbosity setting does **not** alter the display of logs already generated; it applies to newly-generated logs only.

Figure 2-6. Log Window



Appendix A: Mounting the InformaCast Enabled WiFi Alert Button

A.1 Mounting Components

Before you mount the InformaCast Enabled WiFi Alert Button, make sure that you have received all the parts for each InformaCast Enabled WiFi Alert Button. Refer to the following tables.

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

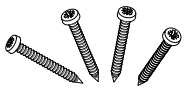
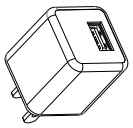
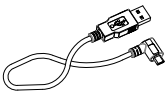
Quantity	Part Name	Illustration
4	Plastic Ribbed Anchor	
4	Wall Mounting #6x1.25" Pan Head Phillips Sheet Metal Screw	

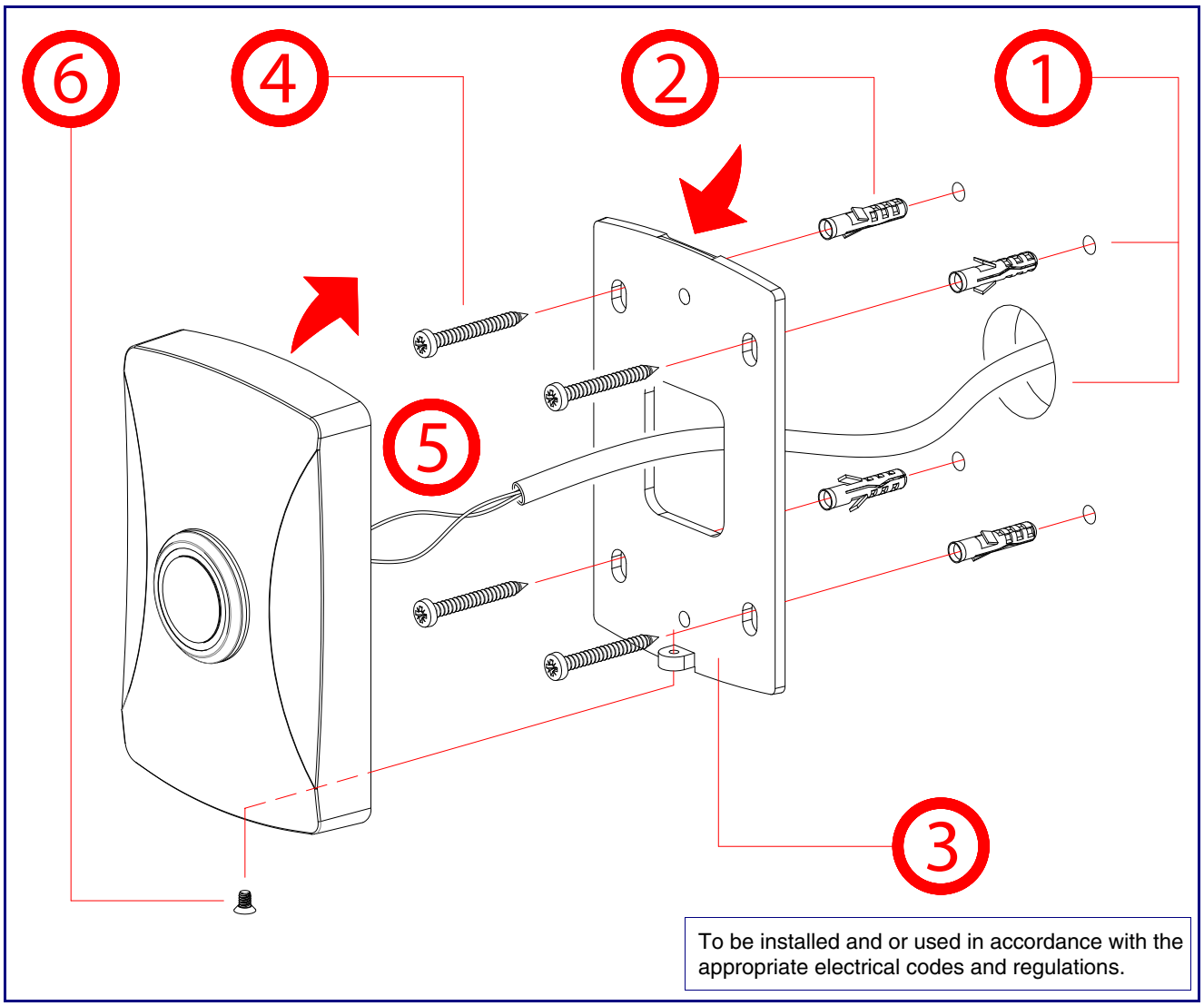
Table A-2. Additional Accessories

Quantity	Part Name	Illustration
1	M3 Flat Head Machine Screw	
1	USB to AC Adapter	
1	Accessory Kit 3 ft USB Cable for WiFi Button	

A.2 Wall Mounting Option

1. Prepare hole cutouts for both wires and the plastic-ribbed anchors. Use the provided **Mounting Template** (Figure A-3) or place the backplate directly onto the mounting surface. Mark the surface, and then drill the holes. (Drill Size: 3/16-inch / 4.8-mm) for the plastic-ribbed anchors.
2. Use a rubber mallet to hammer the plastic-ribbed anchors into the prepared holes.
3. Line up the backplate's Elongated Hole to the plastic-ribbed anchors.
4. Install the mounting screws through the backplate and plastic-ribbed anchors.
5. Connect the wires to the terminals on the InformaCast Enabled WiFi Alert Button. See the **J1 Power Connection** diagram (Figure 1-5).
6. Put the InformaCast Enabled WiFi Alert Button and the backplate together by installing the flat head machine screw on the bottom.

Figure A-1. Wall Mounting Option



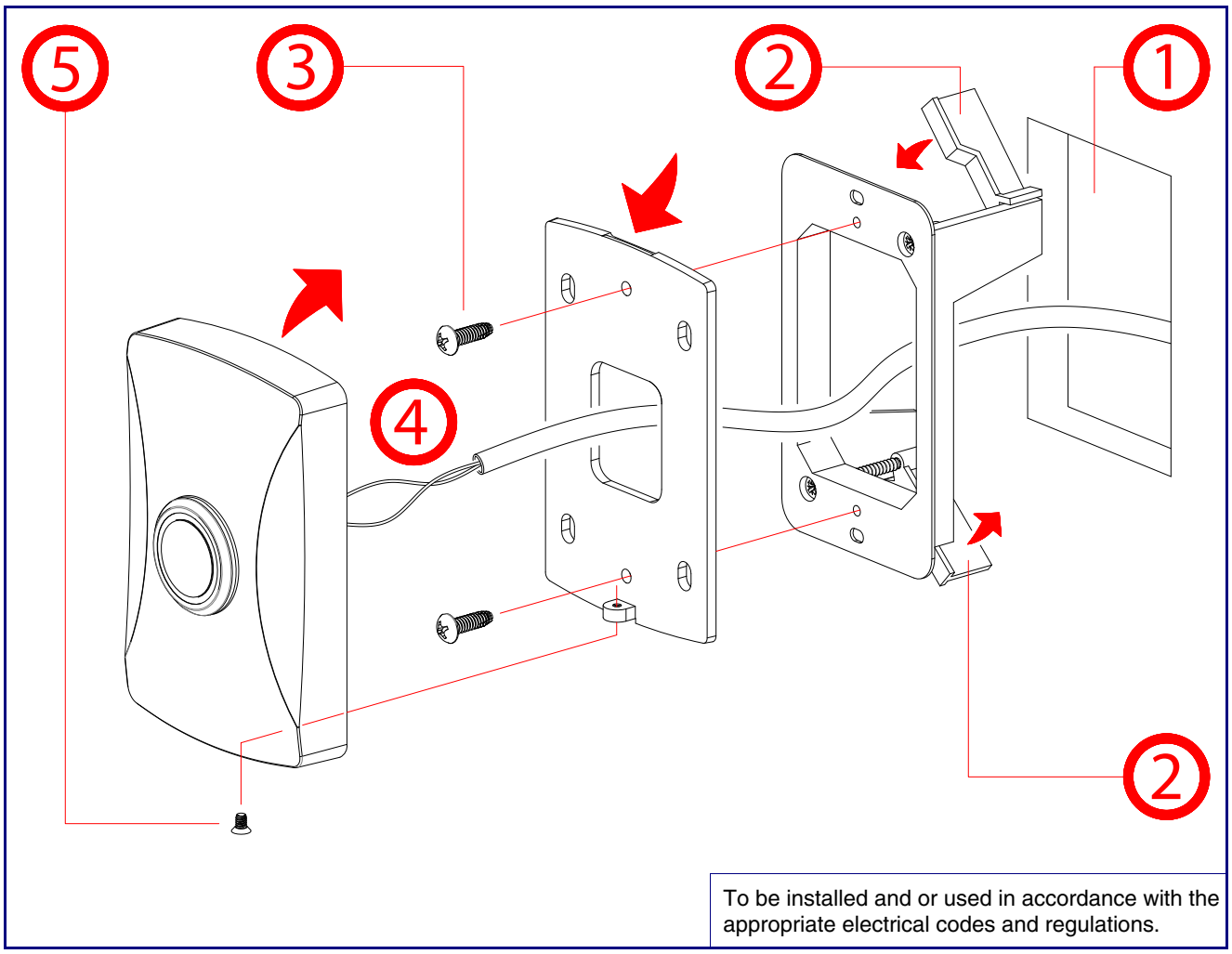
A.3 Mounting Option—Optional Plastic Low Voltage Bracket (Not Included)

The hole pattern of the Wifi Button's back plate can be mounted on a standard gang box or low voltage mount (pictured below).

1. Make a hole cutout for the Low Voltage Bracket*.
2. Fold down the flagnuts, and then insert the Low Voltage Bracket into the hole cutout.
3. Install the mounting screws* through the backplate and the Low Voltage Bracket.
4. Connect the wires to the terminals on the InformaCast Enabled WiFi Alert Button. See the **J1 Power Connection** diagram (Figure 1-5).
5. Put the InformaCast Enabled WiFi Alert Button and the backplate together by Installing the flat head machine screw on the bottom.

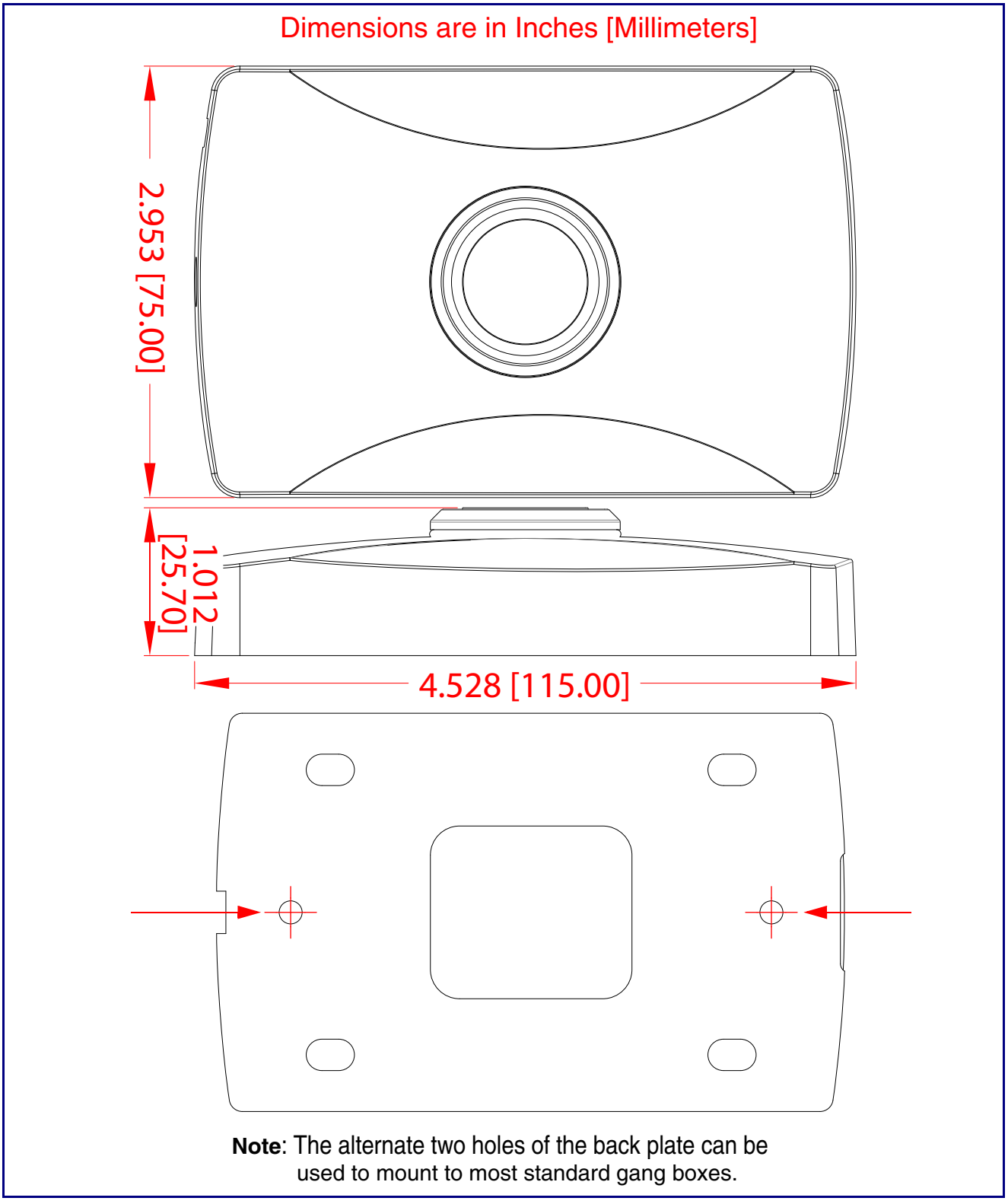
Note ***The Low Voltage Bracket and mounting screws are not provided.**

Figure A-2. Mounting Option—Optional Plastic Low Voltage Bracket (Not Included)



A.4 Dimensions

Figure A-3. Dimensions and Mounting Template



Note: The alternate two holes of the back plate can be used to mount to most standard gang boxes.

Appendix B: Troubleshooting/Technical Support

B.1 Frequently Asked Questions (FAQ)

To see a list of frequently asked questions for your product, do one of the following:

1. Go to the following URL:

http://www.cyberdata.net/products/011527/

2. Click on the **FAQs** tab.

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 by doing one of the following:

1. Go to the following URL:

http://www.cyberdata.net/products/011527/

2. Click on the **Downloads** tab.

B.3 Contact Information

Contact

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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, Extension 333

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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