



WiFi Alert Button Operations Guide

Part #011527 Document Part #931788C for Firmware Version 2.4.0

CyberData Corporation

3 Justin Court Monterey, CA 93940 (831) 373-2601 WiFi Alert Button Operations Guide 931788C Part # 011527

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Revision Information

Revision 931788C, which corresponds to firmware version 2.4.0, was released on March 4, 2023.

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!

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1 Product Overview and Setup

1.1 How to Identify This Product

To identify the 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



Model number

Serial number begins with 527

1.2 Product Features

- A network of up to 100 Buttons can be configured with a single CyberData SIP Paging Server or InformaCast Server.
- Large lighted color button
- Adjustable button brightness, blink rates and activation time
- Adjustable buzzer
- +5V power from USB wall charger with 3 ft cable (included)
- Built-in battery backup allows up to 4 hours of uninterrupted operation
- 802.11 b/g/n WiFi support
- WPA2 PSK
- WiFi Configuration/Discovery Tool
- Network battery diagnostic monitoring
- Over-the-air upgradeable firmware

1.3 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 |

Table 1-1. Product Specifications

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 WiFi Alert Button.





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 Typical Installation - InformaCast-enabled Environment

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



Figure 1-3. Typical Installation - InformaCast-enabled Environment

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 Battery Back-Up Example Use Cases

1.6.1 SIP Paging Server Example

The CyberData WiFi Alert Button interacts with the SIP Paging Server 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 1-4.



Figure 1-4. SIP Paging Server Example

1.6.2 InformaCast Example

The CyberData 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 1-5.



Figure 1-5. InformaCast 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.

1.7 Setting up the Power Connections



Figure 1-6. Enable the Battery Before Installation

Figure 1-7. J1 Power Connection





Figure 1-8. Optional Auxiliary Power Supply (Part #011542 [Sold Separately])

1.8 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 1-9]) 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 1-9) for three seconds.
- Click on the Reset to Factory button on the Device Configuration page (Figure 2-3).



Figure 1-9. 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

| 🕰 🗛 WiFi Alert Button Utility, version v2.4.0 | | | | | - 0 × |
|---|---------------|----------------|------------------|------------------|------------|
| CvberData | | | 14 | | n litiin. |
| The IP Endpoint Company | | | v | VIFI Alert Butto | n Utility |
| MAC Address | Serial Number | Device Name | Battery SoC (%) | RSSI (dBm) | Connection |
| | | | | | |
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| | | | | | |
| | | | | | |
| | | Configure Dise | cover Buzzer/LED | | |
| | | Log St | VMP Quit | | |

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

Table 2-1. Main Window Buttons

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.

| MAC Address Serial Number Device Name Battery SoC (%) RSS (dBm) Connection 0.20.77.04.86.21 52700016 WiFi Button 100 55 WiFi WiFi 0.20.77.04.86.21 52700016 WiFi Button 100 61 WiFi WiFi 0.20.77.04.86.29 527000105 WiFi Button 105 99 50 WiFi WiFi 0.20.77.04.86.24 480000104 WiFi Button 105 99 47 WiFi WiFi 0.20.77.04.86.24 527000109 WiFi Button 105 99 59 WiFi WiFi 0.20.77.04.86.24 527000103 WiFi Button 103 99 52 WiFi WiFi 0.20.77.04.86.24 527000102 WiFi Button 104 100 48 WiFi 0.20.77.04.86.24 527000102 WiFi Button 104 100 48 WiFi 0.20.77.04.86.25 527000102 WiFi Button 104 100 48 WiFi 0.20.77.04.86.24 527000102 WiFi Button 99 51 | .y DCI Dutu | | | | WiFi Alert Bu | tton Utility |
|--|------------------------|-----------|-----------------|-------------------|---------------|--------------|
| MAC Address Serial Number Device Name Battery Sol (N) rss (dsm) Connection 00:2017;04:86:21 527000106 WiFi Button 100 -55 WiFi 00:2017;04:86:30 527000107 WiFi Button 100 -61 WiFi 00:2017;04:86:30 527000105 WiFi Button 99 -50 WiFi 00:2017;04:86:24 527000105 WiFi Button 100 -47 WiFi 0:2017;04:86:32 527000109 WiFi Button 99 -59 WiFi 0:2017;04:86:24 527000103 WiFi Button 99 -52 WiFi 0:2017;04:86:24 527000103 WiFi Button 100 -48 WiFi 0:2017;04:86:24 527000102 WiFi Button 100 -51 WiFi 0:2017;04:86:24 527000102 WiFi Button 99 -51 WiFi 0:2017;04:86:24 527000102 WiFi Button 99 -51 WiFi | he IP Endpoint Company | C 11N 1 | D : N | D. II. C. C. (90) | DCCI (ID) | - |
| 00.20:f7:04:86:30 52700107 WiFi Button 105 99 61 WiFi Dutton 00:20:f7:04:86:2e 52700105 WiFi Button 105 99 -50 WiFi Dutton 00:20:f7:04:86:2e 480000104 WiFi Button 105 100 -47 WiFi Dutton 00:20:f7:04:86:32 52700103 WiFi Button 103 99 -52 WiFi Dutton 00:20:f7:04:86:2e 52700104 WiFi Button 103 100 -48 WiFi Dutton 00:20:f7:04:86:2e 52700104 WiFi Button 104 100 -81 WiFi Dutton 00:20:f7:04:86:2e 52700102 WiFi Button 104 100 -88 WiFi Dutton 00:20:f7:04:86:2e 52700102 WiFi Button 104 100 -88 WiFi Dutton 00:20:f7:04:86:2e 52700102 WiFi Button 99 -51 WiFi Dutton | 00:20:f7:04:86:2f | 527000106 | WiFi Button | 100 | -55 | WiFi |
| 00.20:77:04:86:2e 52700105 WiFi Button 105 99 -50 WiFi Button 00:20:77:04:86:32 52700109 WiFi Button 100 59 WiFi Button 00:20:77:04:86:32 52700103 WiFi Button 103 99 -52 WiFi Button 00:20:77:04:86:2d 52700104 WiFi Button 104 100 -48 WiFi Button 00:20:77:04:86:2d 52700102 WiFi Button 104 99 -51 WiFi Button 00:20:77:04:86:2b 52700102 WiFi Button 104 99 -51 WiFi Button 00:20:77:04:86:2b 52700102 WiFi Button 104 99 -51 WiFi Button | 00:20:f7:04:86:30 | 527000107 | WiFi Button | 100 | -61 | WiFi |
| 00.20:77:04:61:d1 48000014 WiFi Button 100 47 WiFi 00.20:77:04:86:32 52700103 WiFi Button 103 99 52 WiFi 00:20:77:04:86:24 52700104 WiFi Button 104 100 -52 WiFi 00:20:77:04:86:2b 52700104 WiFi Button 104 100 -48 WiFi 00:20:77:04:86:2b 52700102 WiFi Button 104 99 -51 WiFi | 00:20:f7:04:86:2e | 527000105 | WiFi Button 105 | 99 | -50 | WiFi |
| 002017/04/86/32 52700109 WiFi Button 99 -59 WiFi 002017/04/86/26 52700103 WiFi Button 103 99 52 WiFi 002017/04/86/26 52700104 WiFi Button 104 100 48 WiFi 002017/04/86/26 52700102 WiFi Button 104 99 -51 WiFi 002017/04/86/26 52700102 WiFi Button 104 99 -51 WiFi | 00:20:f7:04:61:d1 | 480000104 | WiFi Button | 100 | -47 | WiFi |
| D0:20:77:04:86:2c 52700103 WiFi Button 103 99 -52 WiFi D0:20:77:04:86:2d 52700104 WiFi Button 104 100 48 WiFi D0:20:77:04:86:2b 52700102 WiFi Button 104 99 -51 WiFi | 00:20:f7:04:86:32 | 527000109 | WiFi Button | 99 | -59 | WiFi |
| 00.20:77:04:86:2d 52700104 WiFi Button 104 100 -48 WiFi 00.20:77:04:86:2b 52700102 WiFi Button 99 -51 WiFi | 00:20:f7:04:86:2c | 527000103 | WiFi Button 103 | 99 | -52 | WiFi |
| 00:20:77:04:86:2b 52700102 WiFi Button 99 -51 WiFi | 00:20:f7:04:86:2d | 527000104 | WiFi Button 104 | 100 | -48 | WiFi |
| | 00:20:f7:04:86:2b | 527000102 | WiFi Button | 99 | -51 | WiFi |
| | | | | | | |

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."

| Device Configur | ation | | | | 2 | |
|----------------------|--------------------|-------|-----------------|--------|-------------------|--|
| Device Configuration | | | | | | |
| Serial Number 52 | 27000109 | | MAC Ad | ddress | 00:20:f7:04:86:32 | |
| | | | | | | |
| Device Name | WiFi Button | | FW Version | v2.4.0 | 0 | |
| IP Assignment | • DHCP | | Time Zone | Ameri | ica/Los_Angeles 🔻 | |
| | ○ Static | | SSID | cd_pr | od24 | |
| IP Address | 10.10.1.98 | | PSK | | | |
| Subnet Mask | 255.0.0.0 | | Battery SoC | 99 | | |
| Default Gateway | 10.0.0.1 | | Power Source | Line | | |
| DNS Server | 10.0.1.56 | | Logging Host IP | 239.2 | 55.255.255 | |
| NTP Server | pool.ntp.org | | Last Boot Time | 2021. | 01.06 15:22:07 | |
| ſ | AD Seen | | SCID | | DCCI | |
| l | EW Llodate | - | 3310 | | 1331 | |
| ĺ | Set Boot Partition | | | | | |
| ſ | Reset to Factory | | | | | |
| | Restart | | | | | |
| | | | | | | |
| | | | | | | |
| | | AP so | an idle. | | | |
| | | | | | | |
| | | | [| Commil | Cancel | |
| | | | | Commit | Cancer | |

Figure 2-3. Device Configuration Window

The **Device Configuration** window can be used for various command functions. See 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. |

Table 2-2. Device Configuration Parameters

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.



| 💁 SNM | P Ser | vers | | | | \times |
|------------|-------|-----------|-----|-------------|------------|----------|
| | | SN | IMP | Servers | | |
| Serial Nur | nber | 527000109 | | MAC Address | 00:20:f7:0 | 4:86:32 |
| · | 10.0 | 1 105 | | | | 1 |
| | 10.0. | 1.155 | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | Remo | ve | | | Add | |
| | | | | Commit | | ose |

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.



| 🕰 Buzzer/LED Beha | vior | | | | \times | | |
|----------------------|-----------------------|---------------|--------------------|----------------|----------|--|--|
| Buzzer/LED Patterns | | | | | | | |
| Serial Number 527000 | 0109 | | MAC Address 00:2 | 20:f7:04:86:32 | | | |
| | | Buzzer | | LED | | | |
| Line | volume | · · · · · · | intensity | | | | |
| Power | | | | | | | |
| | pattern | SOLID OFF 👻 | pattern | SOLID ON - | | | |
| Battery | volume | | intensity | | | | |
| Power | | | | | | | |
| | pattern | SOLID OFF 🔹 | pattern | BLIP SLOW 👻 | | | |
| | | | | | | | |
| | | Button Durati | ons | | | | |
| | Button Press Duration | | Button ACK Timeout | | | | |
| | 100 | ms | 5 | seconds | | | |
| | 0 | | | | | | |
| | | | | Save | | | |
| | | | | Concer | | | |

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.

| 🕰 Log Messages | | × |
|---|-----------------------|------|
| System Event | t Log | |
| MAC Address 00:20:f7:04:86:32 | Serial Number 5270001 | 09 |
| Get Log Clear Log Save to File | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Set log verbosity 5 🗘 Save Undo | | Exit |
| Note: verbosity changes will be reflected in newly-generate | d logs | |

Figure 2-6. Log Window

Appendix A: Mounting the WiFi Alert Button²⁰

A.1 Mounting Components

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

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

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

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 WiFi Alert Button. See the **J1 Power Connection** diagram (Figure 1-7).
- 6. Put the 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.
- Connect the wires to the terminals on the InformaCast Enabled WiFi Alert Button. See the J1 Power Connection diagram (Figure 1-7).
- 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





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:

https://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:

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

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

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| | www.cyberdata.net |
| | Phone: 800-CYBERDATA (800-292-3732) |
| | 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

B.4 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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