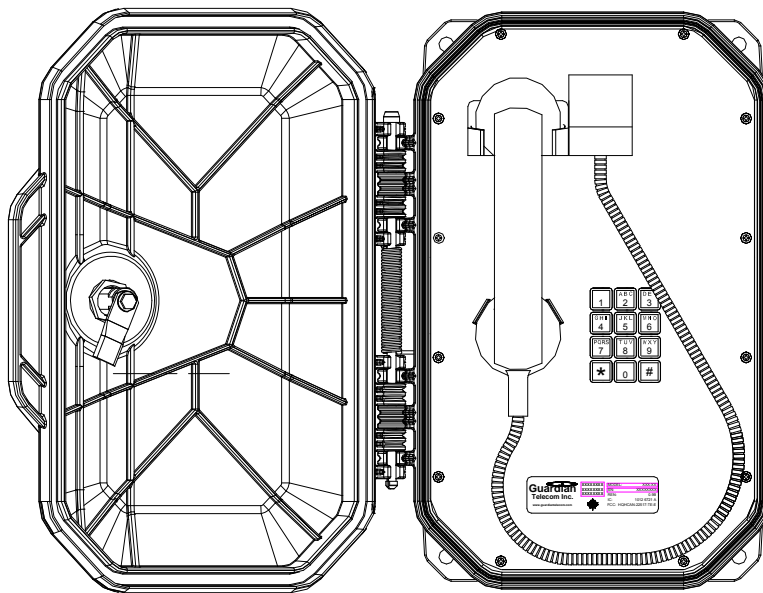


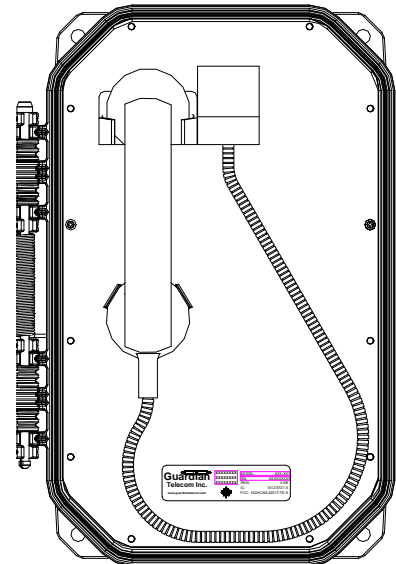
# Watertight 4X, IP-66 VoIP Telephones

WTR/WTT-VoIP Series

Installation & Operation



**WTT-40-VoIP**



**WTR-41-VoIP**

PoE WTR/WTT-VoIP Installation Guide P007308 Rev. E

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This manual gives instructions for the physical installation of WTR/WTT-VoIP telephones. For setup and configuration refer to manual P007402.

## Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Install in accordance with the manufacturer's instructions.
6. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
7. Only use attachments/accessories specified by the manufacturer.
8. Refer all servicing to qualified service personnel.
9. Prior to installation, consult local building and electrical code requirements.



### 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.

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## Package Contents

(1) WTR-VoIP or WTT-VoIP Telephone.

**Note:** Installation and Operation Manual, Setup and Configuration Manual, Guardian Discovery Utility, Interoperability Guide, VoIP Technical Support, Firmware and Autoprovisioning template are all available at [www.guardiantelecom.com](http://www.guardiantelecom.com).

### Models

P5308	WTT-30-VoIP Watertight 4X telephone with curly cord.
P5309	WTT-40-VoIP Watertight 4X telephone with armored handset cord.
P5310	WTR-11-VoIP Watertight 4X ringdown telephone with curly cord.
P5311	WTR-41-VoIP Watertight 4X ringdown telephone with armored handset cord.

### Options

VR-WTE	Vandal Resistant Screws
LCK-WTE	Locking door

### Accessories

POE – Injector – Auxiliary Power Supply	(Contact Sales)
Loud Ringers and Strobe Lights	

## Registering Your VoIP Product

To register your VoIP product send an email to [info@guardiantelecom.com](mailto:info@guardiantelecom.com).

Be sure to include “Guardian VoIP Registration” in the subject field of your email.

Include the following information:

1. Company Name (Req'd)
2. Address (Optional)
3. Device Model (Req'd)
4. Serial Number (Req'd)
5. Date of purchase (Req'd)
6. Name of Supplier (Req'd)
7. Prime Contact (Req'd)
8. Secondary Contact (Optional)
9. Contact Info: Email Address(es) (Req'd)
10. Phone Info: (Optional)

## 1. Product Overview

### *WTR-VoIP and WTT-VoIP Series Watertight Telephones*

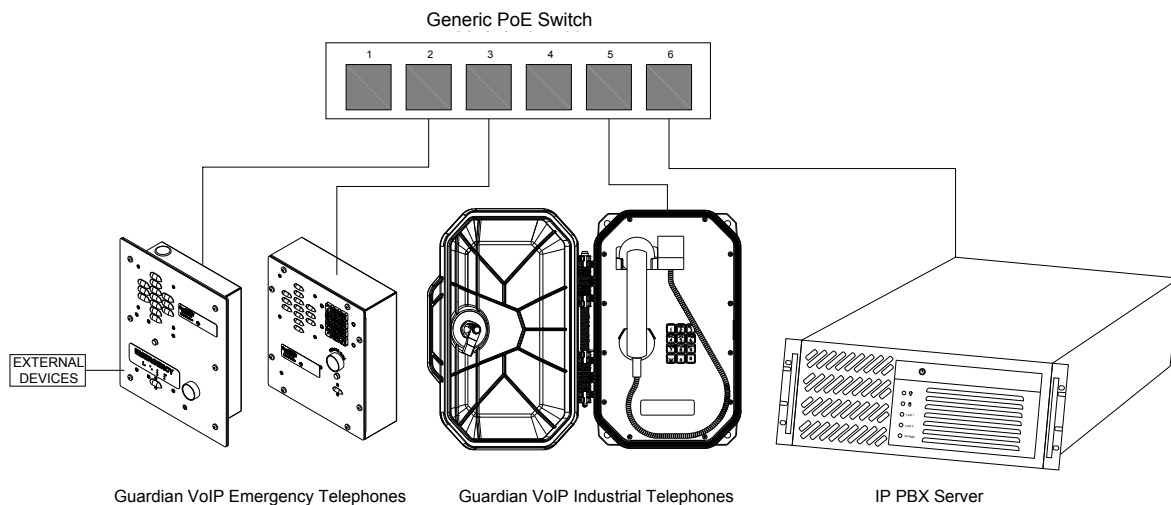
Guardian's Watertight SIP enabled VoIP Telephones offer maximum efficiency under extreme environmental conditions. The sturdy thermoplastic resin enclosure protects the internal circuitry against wind blown dust, rain, corrosion, splashing and high pressure water. With Type 4X & IP66 ratings these are ideal telephones for harsh conditions. WTR-VoIP and WTT-VoIP Telephones are compatible with most SIP-based IP PBX servers that comply with SIP RFC 3261. Users can remotely monitor and program settings through a web browser to configure telephones on their network.

WTR-11-VoIP and WTT-30-VoIP are standard models with a curly cord. WTR-41-VoIP and WTT-40-VoIP are vandal resistant models with an armored handset cord. WTT-VoIP telephones are equipped with a keypad and WTR-VoIP models are ringdown.

## 2. Typical System Installation

The Voice-over-IP (VoIP) WTR-VoIP and WTT-VoIP Telephones are Power-over-Ethernet (PoE 802.3af) and Voice-over-IP (VoIP) two-way communications devices that easily connect into existing local area networks (LANs) with a single cable connection.

Figure 1 illustrates how the WTR-VoIP and WTT-VoIP Telephones can be installed as part of a VoIP phone system.



**Figure 1 - Typical Installation**

### 3. Features

- *Enclosure*
  - thermoplastic resin body construction
  - weatherproof and corrosion resistant
  - spring loaded hinged door (locking optional)
  - integrated mounting feet
  - easy support drill guides for top & bottom mount glands
- *Temperature range -22 ° to +140 °F ( -30 ° to +60 °C)*
- *12-key metal keypad for extended life (WTR & WTT only)*
- *Optional conformal coated circuit boards are resistant to corrosive agents (e.g. H<sub>2</sub>S, SO<sub>2</sub> and NH<sub>3</sub>) and environments with high humidity*
- *Waterproof connections & stainless steel fittings for longer life*
- *Corrosion protected and powder coated steel faceplate*
- *Magnetic Reed Hook Switch - no moving parts*
- *Easily mounted on any sturdy vertical structure*
- *Noise Reducing Microphone allows a high level of intelligibility in locations with high background noise*
- *Armored Handset Cord (WTT-40-VoIP only) withstands severe use*
- *Heavy duty G Type industrial handset*
- *Handset retainers to maintain on-hook status*
- *Modular parts for easy service*
- *Hearing-Aid Compatible & Receiver Volume Adjustment*
- *Compatible with inductively coupled hearing-aid devices*
- *Adaptive full duplex operation*
- *Compatible with most SIP-based IP PBX servers that comply with SIP (RFC 3261)*
- *Network web management interface*
- *Guardian discovery utility makes it easy to detect, locate and launch the web based configuration screens*
- *Product self diagnostic testing available through web interface*
- *Network adjustable speaker volume and microphone sensitivity*
- *Network downloadable firmware*
- *PoE 802.3af enabled (Powered-over-Ethernet) or alternate power source*
- *Web Based User Interface allows remote setup of network, product operations, updates, self diagnostics and other functional access.*
- *Programmable speed dial*
- *Dual speeds of 10 Mbps and 100 Mbps*
- *Network/Web management*
- *Network configurable relay activation settings*
- *Dial Out Extension supports the addition of comma delimited pauses before sending additional DTMF tones*
- *Network downloadable product firmware*
- *Tamper proof design*
- *Autoprovisioning*
- *Configurable audio files*
- *Event activation – (see manual – events section)*
- *One year warranty*
- *Peer-to-peer capable*
- *Optional security screws with driver bit*

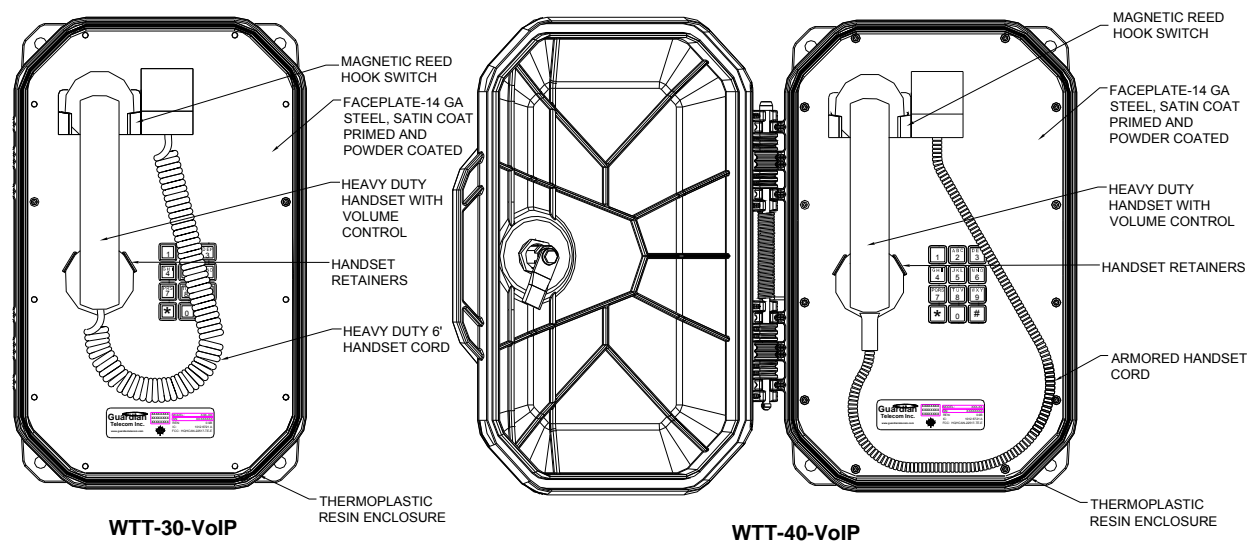


Figure 2 - WTT-VoIP Features (WTR-VoIP Similar)

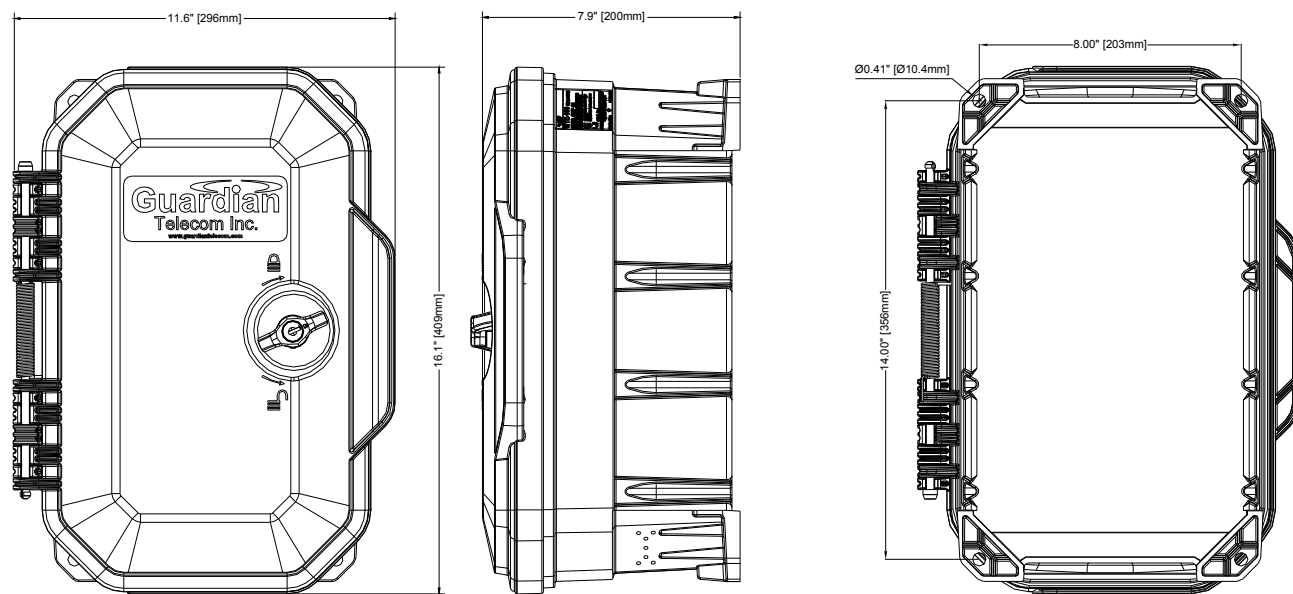
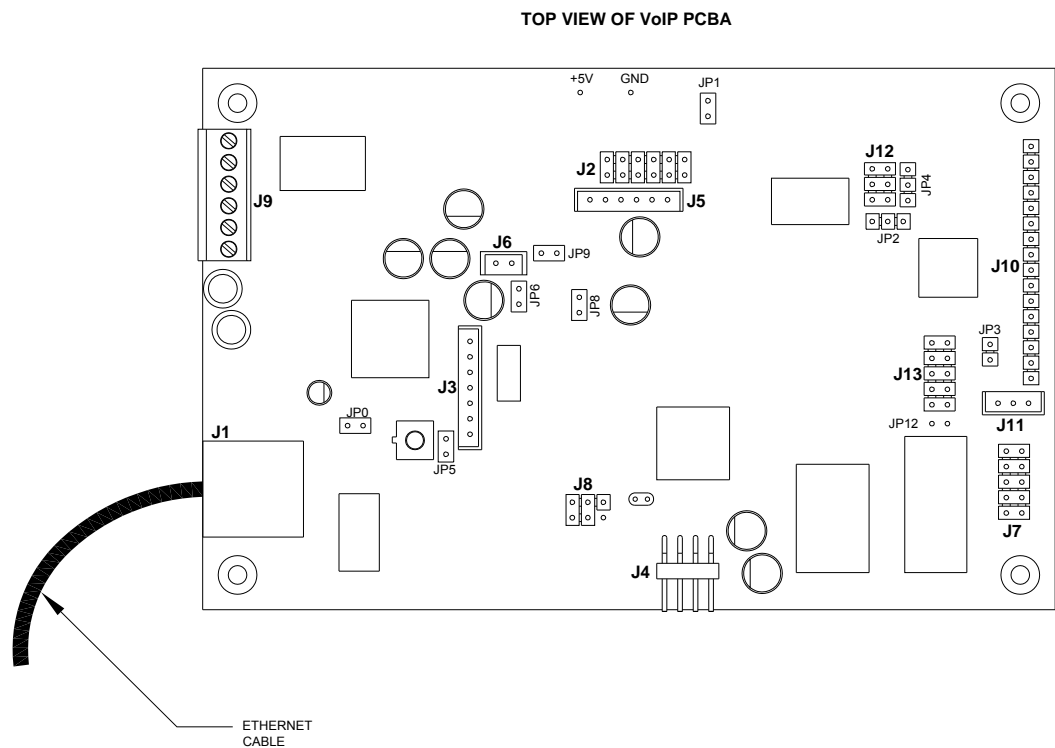


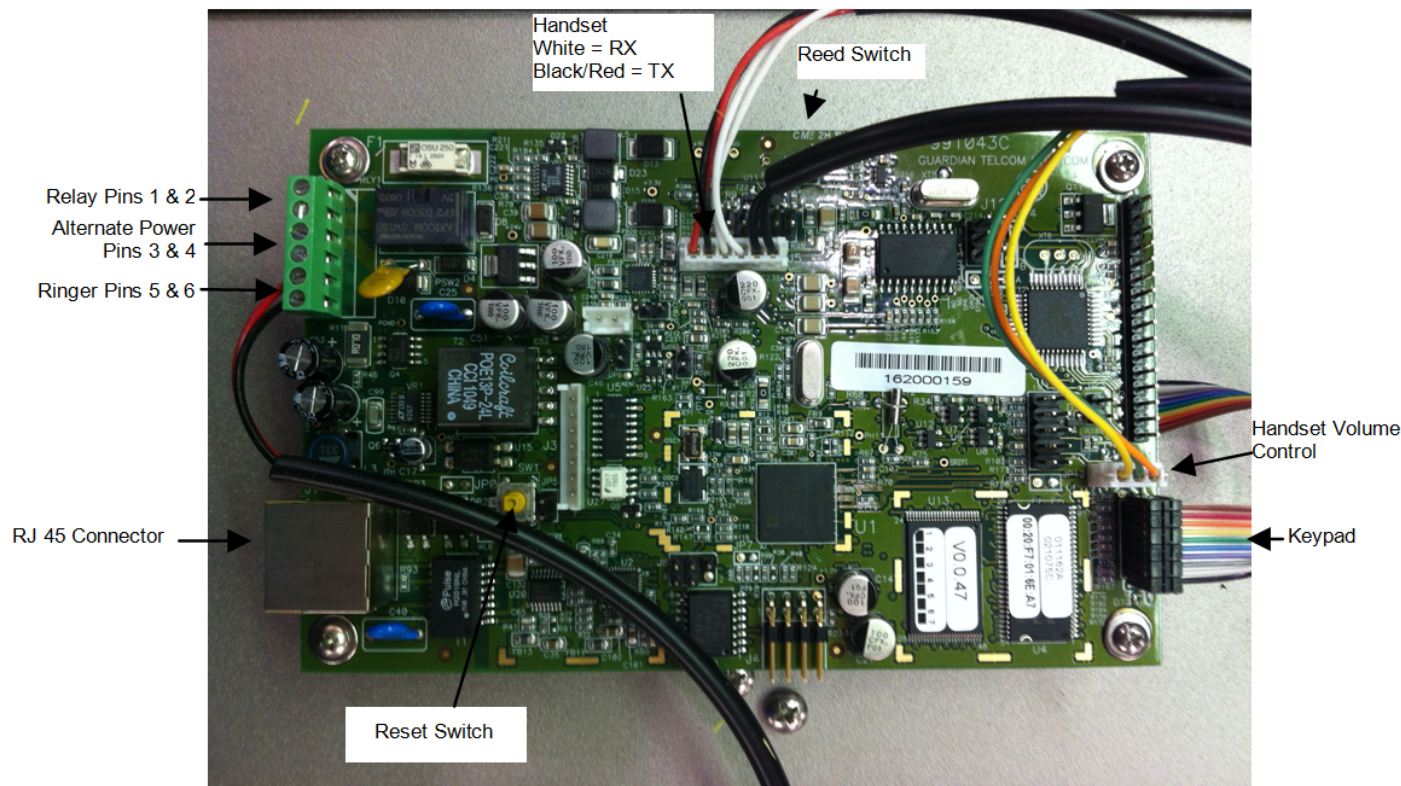
Figure 3 - Overall Dimensions





J1: STANDARD 8 PIN RJ45 10/100Base-T And power input via Power over Ethernet

Figure 4 - Wiring



## 4. Installation

Follow all appropriate electrical codes and use only approved electrical fittings for the installation.

Determine if power to operate the telephone will be provided via the Ethernet or if external power will be required. If external power is required install Guardian's Auxiliary Power Supply or equivalent.

To maintain Ingress Protection / NEMA ratings use appropriately rated hardware and waterproofing techniques.

Choose a wall location that is free of obstructions and permits space for conduit runs.

Ensure mounting can support 11.8 lbs (5.4kg) and any additional foreseeable load.

### To Avoid The Danger Of An Accidental Shock or Circuit Damage

If using an auxiliary power supply, ensure it is unplugged during installation.

Separate the faceplate from the housing by removing the two temporary, factory installed screws. NOTE that the handset and all electronics are attached to the front plate. The front cover may be separated from the back box by disconnecting the harness plugs.

Drill or punch cable entrances as required. There are three drill dimples to assist.

Use the template provided to locate and drill holes for mounting screws.

Secure the unit to the wall.

Bring the Network cable into the enclosure through the conduit entrance and plug into the RJ-45 connector on the PCBA.

If using an alternate power supply connect the supply to the terminal block J9. Before doing so determine if power is supplied over the Ethernet cable.

Connect the on-board relay if utilized.

Reconnect the faceplate harness.

Ensure all connections are secure.

Determine that the telephone is properly connected by pressing the RESET switch for less than five seconds to announce the IP address. LEDs on the RJ45 connector indicate network connection and activity.

Replace the faceplate.

Set up and configure if changes are required to the default settings.

Test the unit by calling to and from another telephone, preferably a VoIP device.

**See:** Figure 5 - Terminal Block Connections

**See:** Figure 3 - Overall Dimensions

**Note:** Be careful when removing the faceplate. The circuit board is on the faceplate.

**Tip:** Use ¼" or M8 screws to secure the unit to the wall.

**See:** Figure 5 - Terminal Block Connections

**See:** Section 8.2 Connecting a Device to the Auxiliary Relay

**See:** Section 8.5 RESET Switch and Figure 8 - Network Activity

**See:** Manual P007402 – Setup and Configuration.

## 5. Operation

WTT-VoIP telephones may be set up for either keypad dialing or auto-dialing.

If the telephone is configured for keypad dialing operation is identical to most other single line telephones.

If the telephone is configured for auto dialing lift the handset and press the number assigned to the extension to be dialed.

WTR-VoIP telephones will dial the programmed number when the handset is lifted.

Adjust the receiver volume with the switch in the handset.

**Note:** The details are explained in the Setup and Configuration Manual P007402.

## 6. Supported Protocols

The WTT-VoIP Telephone with Keypad supports:

- SIP (Session Initiation Protocol)
- HTTP Web-based configuration
  - Provides an intuitive user interface for easy system configuration and verification of WTT-VoIP Telephone with Keypad operations.
- DHCP Client
  - Dynamically assigns IP addresses in addition to the option to use static addressing.
- TFTP Client
  - Facilitates hosting for the Autoprovisioning configuration file.
- RTP
  - Facilitates autoprovisioning configuration values on boot.
- Audio Encodings
  - PCMU (G.711 mu-law)
  - PCMA (G.711 A-law)
  - Packet Time 20 ms

## 7. Supported SIP Servers

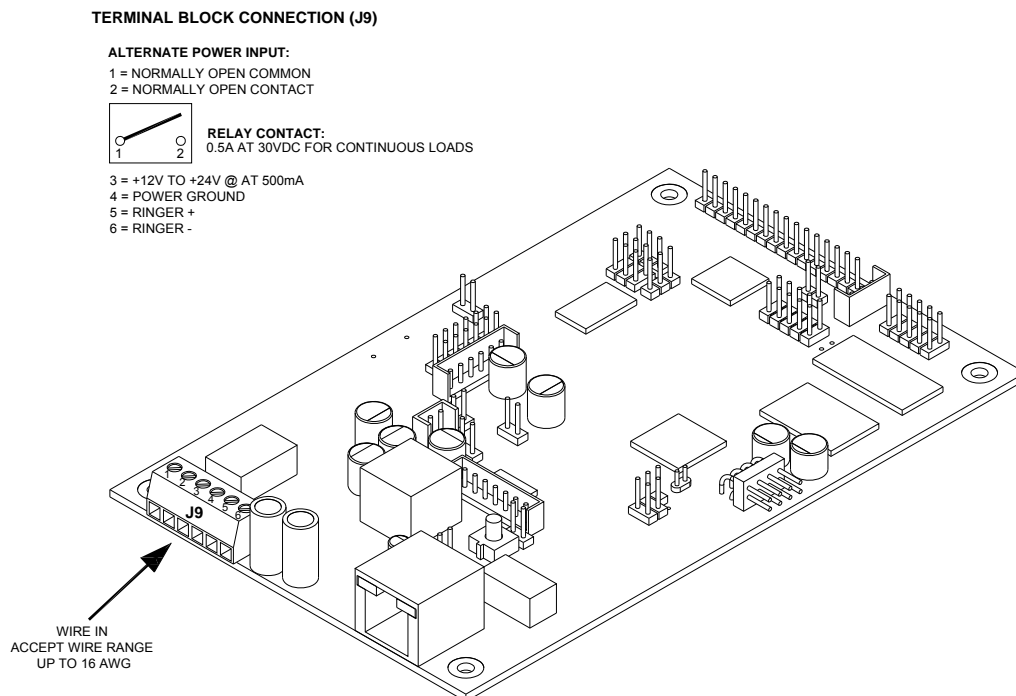
As a SIP device, this product will operate with most IP PBX servers.

## 8. WTR/WTT-VoIP Telephones Setup

### 8.1. Connections

Figure 5 shows the pin connections on the J9 (terminal block). This terminal block can accept a wire range from 16 AWG to 26 AWG.

**Note:** As an alternative to using PoE power 12 to 24 VDC at 500 mA can be supplied to the terminal block.



**Figure 5 - Terminal Block Connections**

## 8.2. Connecting a Device to the Auxiliary Relay

The WTR/WTT-VoIP Telephone incorporates one on-board relay located on the PCBA, which enables users to control a low current external relay or device. An external relay could control a ringer, strobe light, door lock or any other apparatus. The on board relay is protected by a 1 Amp, non-replaceable fuse. **Power switched by the relay should not exceed 0.5 Amps @ 30VDC.** The PCBA is not designed to handle AC voltages.

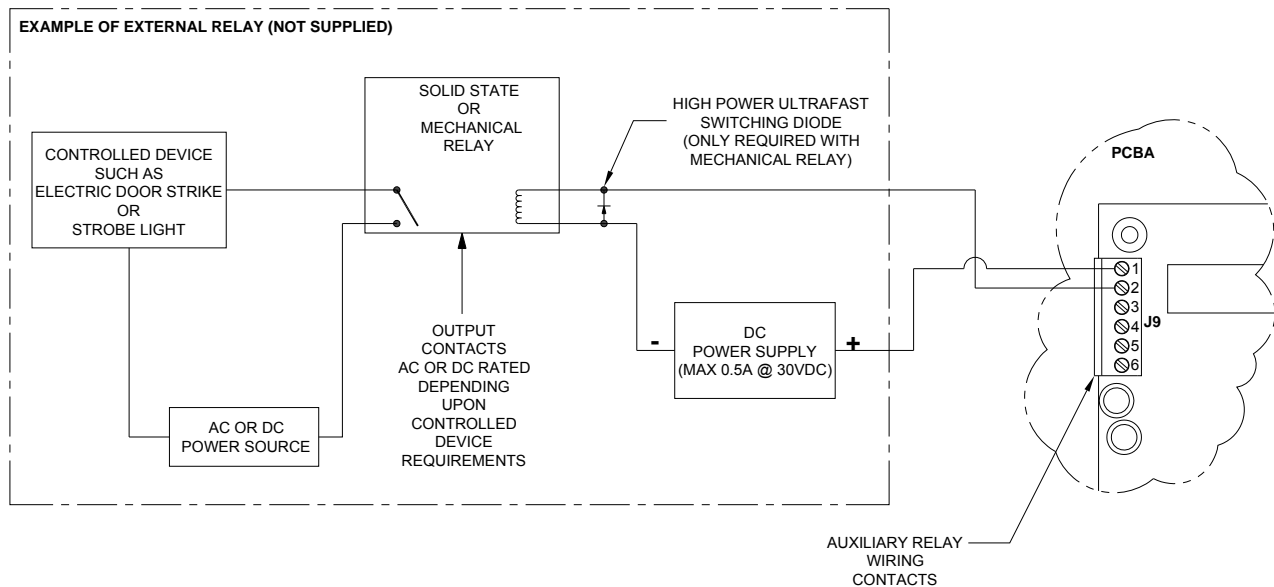
**Warning: The relay circuitry contains a non-replaceable 250VAC 1A fuse. If the fuse blows the board must be returned to Guardian or an approved service center for repair.**

The Telephone relay activation time is selectable through the web interface on the Device Configuration Page. The relay is controlled by DTMF tones generated from the phone to which the VoIP phone is connected; no matter which one initiated the call. The DTMF tones are selectable from the web interface as well.

**Note:** The three digit code for the auxiliary relay must be sent in conformance with RFC2833 DTMF generation.

*See: Figure 6 - Auxiliary Relay Wiring Diagram*

*See: Manual P007402 Setup and Configuration*



**Figure 6 - Auxiliary Relay Wiring Diagram**

8.3. Identifying the Connector Locations and Functions

See Figure 7 and Table 1 to identify the connector locations and functions.

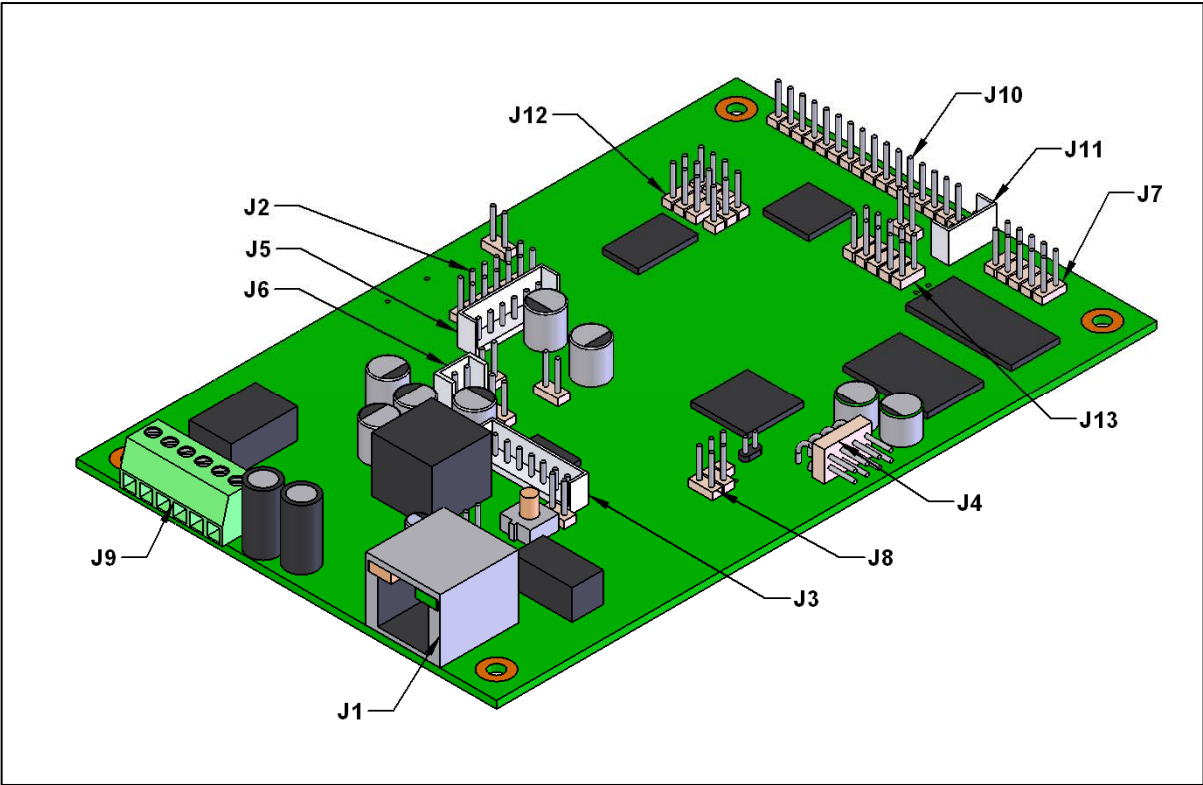


Figure 7 - Connector Locations

Connector	Function
J1	PoE Network Connection (RJ-45)
J2	Hands free Microphone Interface/LED Interface
J3	Not used
J4	JTAG Interface
J5	Handset/Reed Switch Interface
J6	Speaker Interface
J7	Keypad Interface
J8	RS232 Port
J9	Terminal Block (see Figure 5)
J10	Not used
J11	Handset V.C. Interface
J12	ISP-DIP/Debug UART

Table 1 - Connector Functions

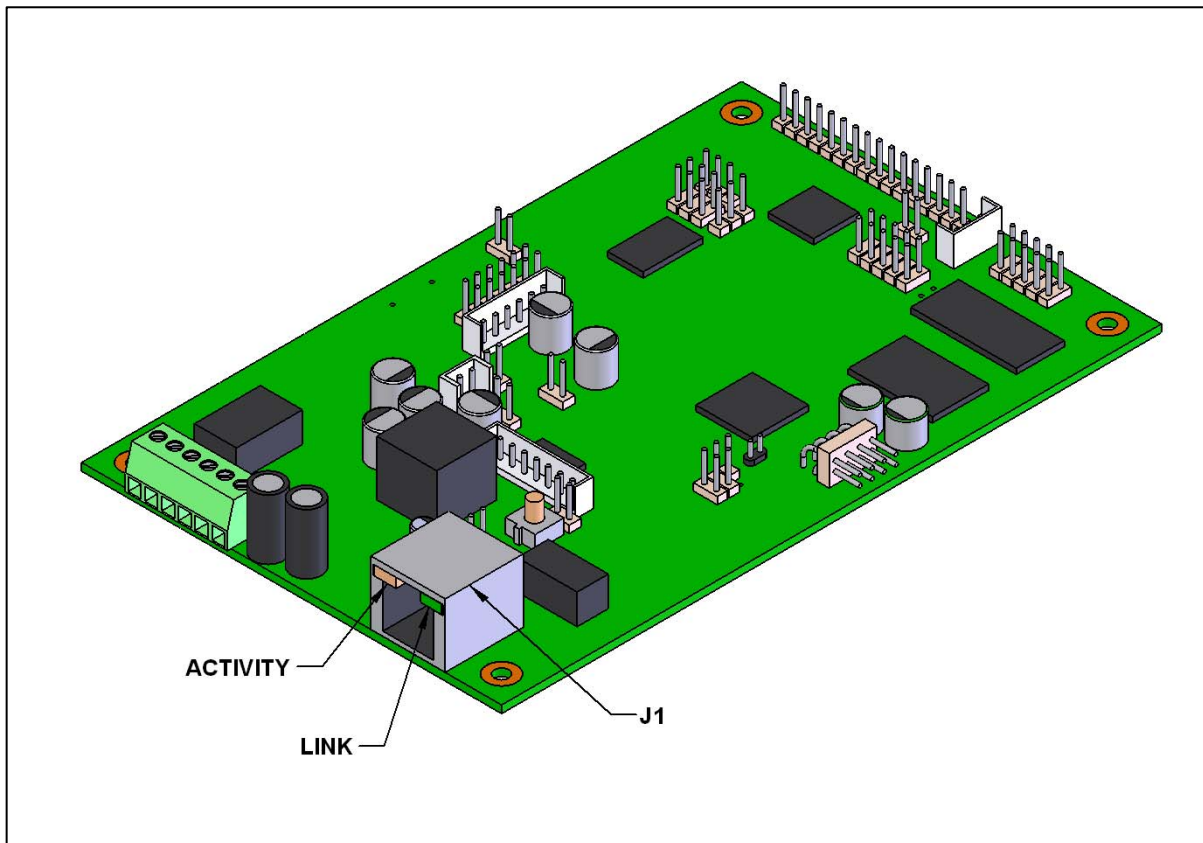
## 8.4. Network Connectivity, and Data Rate

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 8). The Link light changes color to confirm the auto-negotiated baud rate:
  - This light is yellow at 10 Mbps.
  - It is orange at 100 Mbps.

### 8.4.1. Verify Network Activity

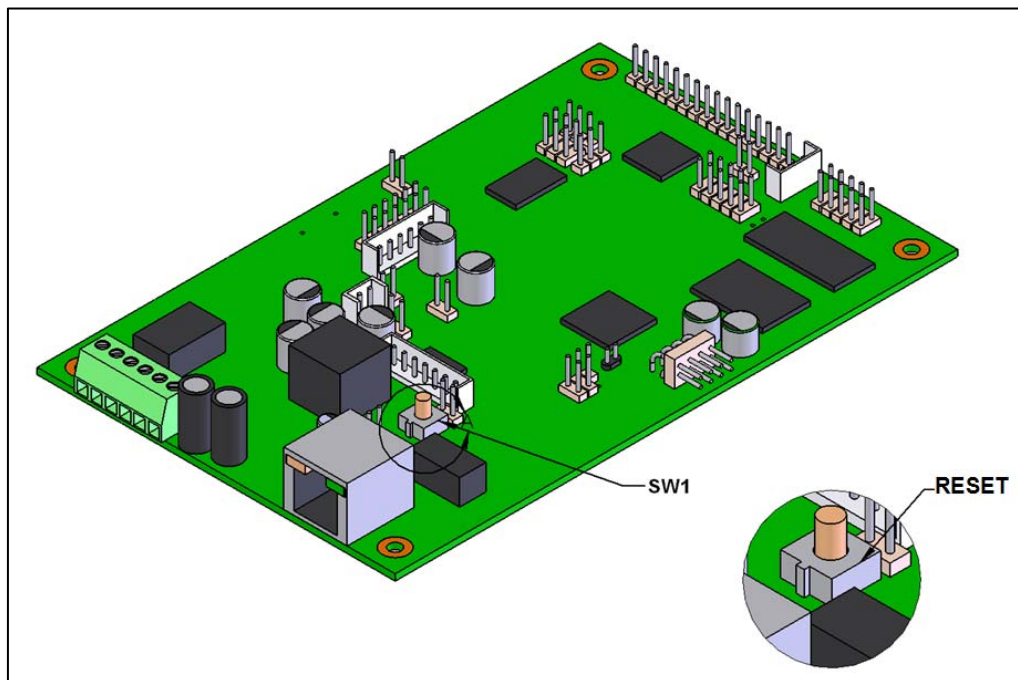
The square, yellow **Activity** light blinks when there is network activity.



*Figure 8 - Network Activity*

## 8.5. RESET Switch

When the Telephone is operational and linked to the network use the Reset Test Function Management (**RESET**) switch (Figure 9), on the Telephone board to announce, the Telephone's IP Address, and test that the audio is working (see Section 8.5.1). The message will come through the handset receiver.



**Figure 9 - RESET Switch**

### 8.5.1. Announcing the IP Address

To announce a telephone's current IP address:

1. Press and release the RESET switch (SW1). Do not hold more than five seconds.

**Note** The telephone 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).

**Note** Pressing and holding the RESET switch for longer than five seconds will restore the telephone to the factory default settings.

### 8.5.2. Restore the Factory Default Settings

When troubleshooting configuration problems, it is sometimes convenient to restore the device to a known state.

**Note:** Each Telephone is delivered with factory set default values.

To set the factory default settings:

1. Press and hold the **RESET** switch (SW1) for more than five seconds.
2. The telephone announces that it is restoring the factory default settings.

**Note** The telephone 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).

## 8.6. Adjust the Volume

You can adjust the volume through the Device Configuration Page.

## 9. Product Specifications

<b>Electrical Performance</b>	
RINGER OUTPUT	>80 dB
MICROPHONE	NOISE REDUCING DYNAMIC
RECEIVER	HEARING AID COMPATIBLE
<b>Category</b>	<b>Specification</b>
ETHERNET I/F	10/100 MBPS
PROTOCOL	SIP RFC 3261 COMPATIBLE
POWER INPUT	802.3AF COMPLIANT OR 12-24V VOLTS AT 500MA PoE
PAYLOAD TYPES	G711, A-LAW AND $\mu$ -LAW
<b>Environmental</b>	
WEATHER AND CORROSION RESISTANT	ENCLOSURE Nema 4X/IP66
TEMPERATURE	-22° TO +140° F (-30° TO +60° C)
HUMIDITY	0 TO 100% RH
<b>Mechanical</b>	
HOOK SWITCH (CRADLE SWITCH) LIFE	>1 000 000 OPERATIONS
BODY CONSTRUCTION	THERMOPLASTIC RESIN
FACEPLATE	STEEL, CORROSION PROTECTED & POWDER COATED
DIMENSIONS (H X W x D)	16.1 x 11.6 x 7.9 INCHES (409 x 296 x 200 mm)
NET WEIGHT	11.8 LBS (5.4 kg)
HANDSET MATERIAL	HIGH IMPACT ABS
STANDARD MOUNTING	VERTICAL WALL
WIRING ACCESS	THREE DIMPLED DRILL GUIDES FOR 1" GLANDS
HARDWARE MATERIAL	STAINLESS STEEL
<b>COMPLIANCE</b>	
FCC	Part 15, Class A
ICES-003	Class A
IEC	61000-6-2: 2005
CISPR	22: 2008
WEATHERPROOF ENCLOSURE	TYPE 4X, IP-66

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



## 10. Field Repairs

Field repairs may only be carried out by qualified technicians using OEM parts. Substitution of parts voids warranty and may pose a hazard to users of the equipment.

Disconnect the telephone IP Cable and Aux Power if necessary.

Carefully remove the front cover assembly and separate from the housing by disconnecting the harness plugs. NOTE that the handset and all electronics are attached to the front plate.

Perform the necessary repairs or adjustments.

Carefully replace the front plate and install all screws. Do not over tighten the cover screws. There is a flexible gasket between the cover and the body; excessive tightening of the screws deforms the gasket and reduces the weather resistance of the set.

### **Handset Replacement**

Refer to the instruction sheet included with the replacement handset.

Disconnect the handset wiring from the PCBA.

If the phone is equipped with an armored cord handset, remove the anchor screw from the armored cord lanyard.

Loosen the handset cable gland and pull out the cord.

Install the new replacement handset and tighten the gland.

Rewire the handset cord to the PCBA.

### **Ringer Replacement**

Disconnect the ringer wiring from the terminal block on the PCBA.

Remove the screws that hold the ringer to the housing.

Install the new ringer and gasket.

Reconnect the ringer wiring to the terminal block.

### **Main Circuit Board Replacement**

Label any wiring attached to the circuit board. Disconnect wiring and ribbon cable.

Remove the two screws holding the circuit board in place. Carefully remove the board.

Install the new board and reconnect the wiring.

If the configuration had been changed from the factory default settings reprogram the telephone.

Test by making and receiving calls from another telephone.

**See:** Section 11  
*Replacement Parts*

11. Replacement Parts	
Part No.	Description
P002786	HANDSET - CRADLE W/O THRU HOLES
P004371	HANDSET - RETAINER CLIPS
P005837	SWITCH- PROX REED SWITCH HEAVY DUTY (CC)
P006443	SA- WTE-100 ENCLOSURE ABS
P006499	GASKET- WTE-100 FACEPLATES
P006513	FACEPLATE- WATER TIGHT TELEPHONE, WTE
P006965	FACEPLATE - WATERTIGHT RINGDOWN
P007228	HANDSET-4' CURLY CORD C/W VC, TX & RX (CN)
P007230	HANDSET - 22" ARMORED CORD C/W VC TX & RX
P007319	RINGER - FLOYD BELL - VOIP
P007321	CONNECTOR - CRIMP PIN FOR MATING EH CONNECTORS
P007323	CONNECTOR - 3 PINS EH MATING CONNECTOR
P007395	PCBA- VOIP/TEL/HNDST (VOIP TEL)
P007435	CONNECTOR - 6 CONDUCTOR, EH MATING
P007472	SA- METAL KEYPAD VOIP C/W PCB & CABLE
P007477	PLATE - VOIP PWBA MOUNTING ADAPTOR

## 12. Cleaning Tips for Guardian Telephones

Guardian Telephones may occasionally need to be cleaned to maintain appearance. Generally, wiping the surface with a clean, water dampened cloth will remove most films or residues. If the soiling is too stubborn for plain water, a mild detergent solution may be used. Be sure to wipe away any detergent residue with a plain water dampened cloth. The Telephone may be cleaned with any general-purpose household glass and surface type cleaner. Do not spray the telephone directly! Spray the cleaner on a soft cloth then wipe the surface. Pre-treated cloths, like those used for eyeglasses or cameras, may be used to clean the Telephone. Premoistened towelettes may also be used, however, avoid those containing lanolin or aloe as they will leave a slippery residue. The handset and surface of the telephone may be cleaned with disinfectants used for general cleaning in a medical environment. Isopropyl alcohol may be used applied with a cloth. Avoid using alcohol on silicon based keypads, since doing so may significantly degrade legibility.

- Do not use furniture polishes, waxes or plasticizer-based cleaner (Armor All etc.)
- Do not use lanolin, aloe, glycerin or other skin care type products.
- Do not apply any solvent such as acetone, mineral spirits etc.
- Do not directly spray or immerse the handset.

### 13. Warranty

Guardian Telecom warrants your product to be free of defects in material and workmanship for a period of one year. Guardian Telecom will repair or replace any defective unit that is under warranty. This warranty is null and void if any non-authorized modifications have been made to this product, or if it has been subjected to misuse, neglect, or accident. This warranty covers bench repairs only; such repairs must be made at Guardian Telecom or an authorized service depot. Guardian Telecom is not responsible for costs incurred for on-site service calls, freight, or brokerage.

***A return authorization must be obtained prior to warranty claims or repairs.***

### 14. Disclaimer

The products covered by this manual are designed for use in Industrial Environments and/or Hazardous Locations. Due to the range of possible applications for these instruments the manufacturer will not be responsible for damages or losses of any kind suffered as a result of the use of this product, including consequential damages.

### 15. Warning

This device may be opened and reassembled by qualified personnel only, for the purposes of installing the product, making adjustments and replacing components, following the instructions in the product manual.

**High voltages may be present in this product when wiring is connected.**

### 16. Service Telephone Number

**1-800-363-8010**

Guardian Telecom provides a customer service telephone number which is toll-free within North America. If you need assistance when installing or operating this product, please call the toll-free telephone number between regular business hours (8:00AM-5:00PM), Mountain Standard Time. If you are calling outside of regular business hours, please leave a detailed message, and a member of Guardian Telecom's Service Department will return your call as soon as possible. If your product requires service, Guardian personnel will supply you with an RMA (return materials authorization) number over the telephone or through our web site product return page. This number must be included with your return address and the name of the person to contact.

**Guardian Telecom Inc.**  
**Toll-free 1-800-363-8010**  
**Phone (403) 258-3100**  
**Fax. (403) 253-4967**  
**[www.guardiantelecom.com](http://www.guardiantelecom.com)**

### 17. Feedback

Guardian Telecom continually strives to make reliable, durable, and easy to use products. If you, as an installer or user of our equipment, have any suggestions for improvements to this or any of our products or documents, including this manual, we would appreciate hearing from you.

## 18. Guardian Product Return

Guardian products have been quality tested and are in full working order when shipped from the factory, given the rugged nature of these products shipping is not expected to damage a unit. In the unlikely event of a malfunction Guardian follows the three step procedure below.

### ***Step I - On-Site Correction***

The most common source of difficulties with a new product is improper installation in one of two ways: incorrect wiring connections or connection to an incorrect power source.

Product wiring needs to be properly connected to the on-site wiring. Correct wiring instructions are shown in the user manuals included with the product.

VoIP telephones must receive power either from the Ethernet (POE) or from an external source. If a VoIP telephone fails to function refer to the Question & Answer section in the Setup and Configuration manual P007402. If the solution is not found in the Q & A section contact Guardian Tech Support online under Products\VoIP Technical Support at [www.guardiantelecom.com](http://www.guardiantelecom.com) or at 1-800-363 8010.

### ***Step II - Return Materials Authorization (RMA)***

When a product has been installed following user manual instructions, and the unit fails to operate, the user must contact Guardian Telecom to obtain authorization to return the product. This can be done by completing a RMA form online at [www.guardiantelecom.com](http://www.guardiantelecom.com), or by calling the service telephone number given in this manual.

After providing information on the product, the owner and the nature of the problem, Guardian will issue a RMA number, to be shown on documentation returned with the product.

In addition to the RMA number, shipping documents should include name, address and telephone number of the owner along with contact information for the person responsible for the repair and/or the user who identified the malfunction.

(Where a product is being returned for repair from outside of Canada, customs documentation must show the product's serial number, date of export [date of purchase], and a notation that the equipment is: "Canadian goods returning.")

### ***Step III - Factory Authorized Service***

Once received, each product is carefully inspected and tested. If the product is under warranty, repairs are completed and the product returned to the owner, generally within five working days of receipt by the factory.

A product that has been subjected to misuse, neglect or accident or is beyond the warranty period will be evaluated. The service department will provide the owner's representative with a repair cost estimate. Once approved, repairs are completed and the product returned, generally within five working days.

## Model No.

Serial No.

Date of Purchase

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