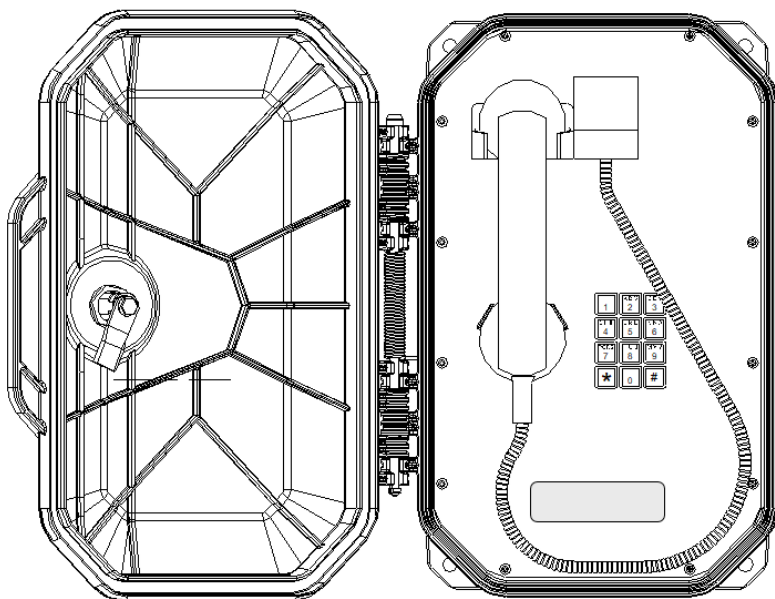


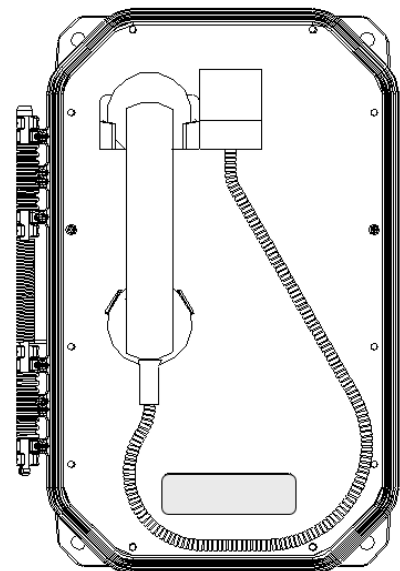
Watertight 4X, IP-66 VoIP Telephones

WTR/WTT-VoIP Series

Installation & Operation



WTT-40-VoIP



WTR-41-VoIP

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

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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.



GENERAL ALERT
ALERTE GÉNÉRALE

Warning

Electrical Hazard: Wiring connections for this product should be made by a licensed electrician or trades person according to all applicable electrical and building codes.

Avertissement

Danger électrique : Les connexions de câblage de ce produit doivent être effectuées par un électricien agréé ou une personne de métier selon tous les codes électriques et du bâtiment applicables.



GENERAL ALERT
ALERTE GÉNÉRALE

Warning

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

Avertissement

Risque de dislocation: Pour éviter les blessures, cet appareil doit être solidement fixé au plancher/mur conformément aux instructions d'installation.

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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.

The Setup and Configuration manual is available at [P007402](#).

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

Updating Your VoIP Product

Please review www.guardiantelecom.com support pages to obtain the latest F/W or contact Guardian Telecom Support at <mailto:rmateststation@guardiantelecom.com>

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 windblown dust, rain, corrosion, splashing and high-pressure water. With Type 4 X & 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 Coil 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.

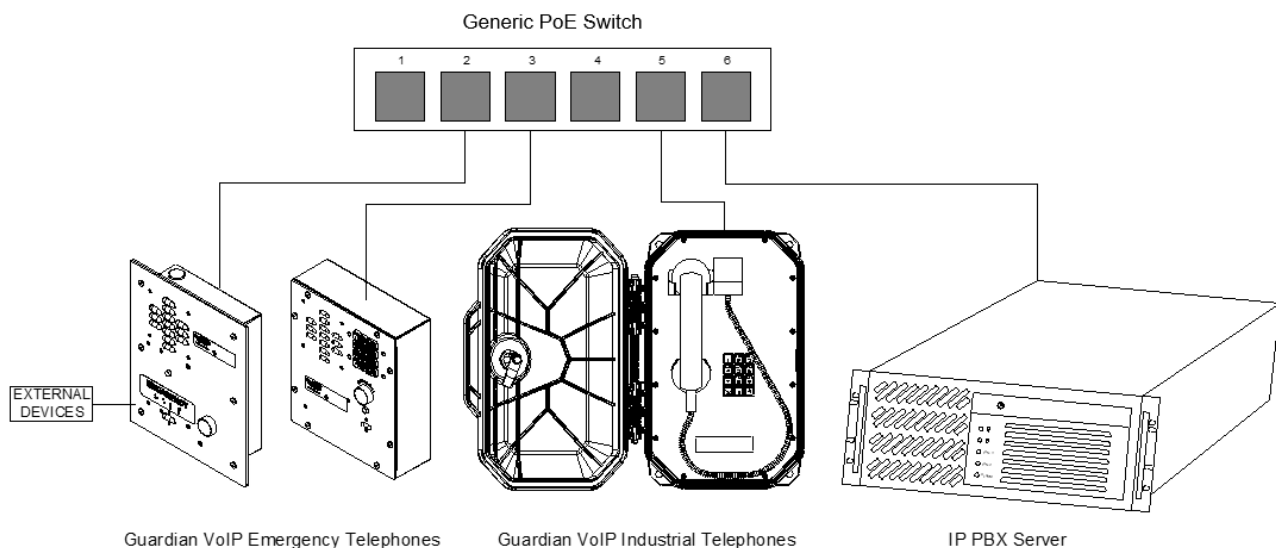


Figure 1 - Typical Installation

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. H₂S, SO₂ and NH₃) 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-V and WTR-41-V 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 sets default levels. User adjustable volume control on Handset.**
- **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.**
- **Auxiliary Relay – Multiple activation selectable through web interface**
- **Dual speeds of 10 Mbps and 100 Mbps**
- **Network/Web management**
- **Dial Out Extension supports the addition of comma delimited pauses before sending additional DTMF tones**
- **Network downloadable product firmware**
- **Tamper proof design**
- **Autoprovisioning and Device Configuration Export/Import saves setup time on multiple deployments.**
- **Configurable audio files**
- **Event Monitoring / Triggers – (Refer to VoIP Configuration Guide – P/N: P007402)**
- **Three year warranty**
- **Peer-to-peer capable**
- **Optional security screws with driver bit**

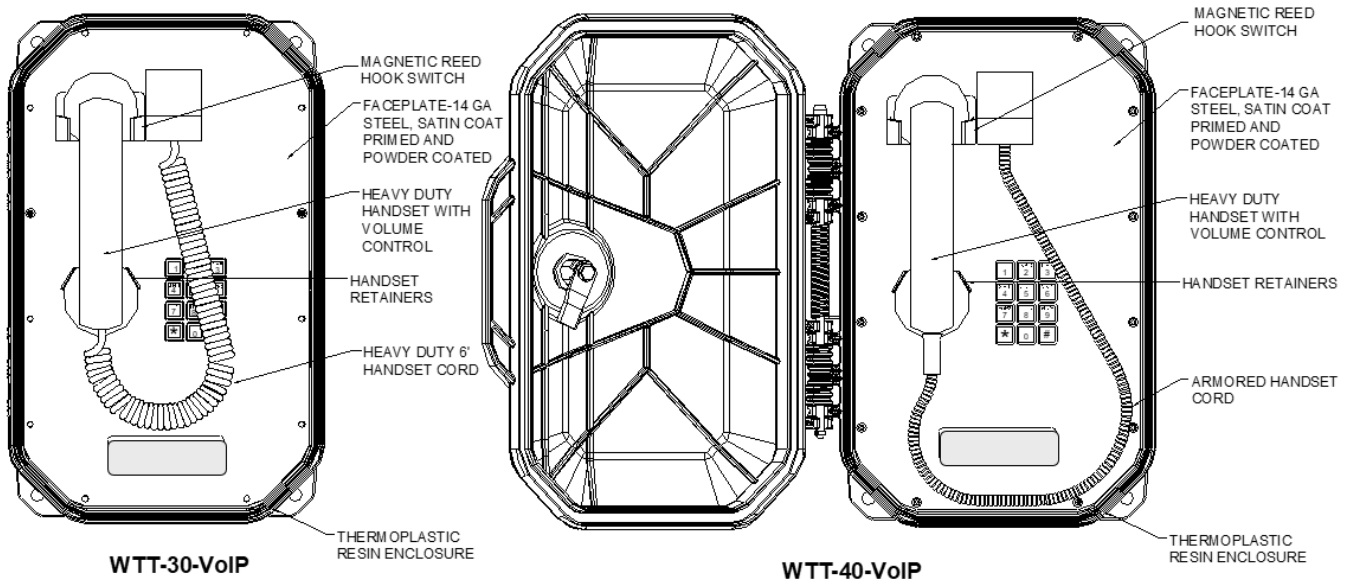


Figure 2 - WTT-VoIP Features (WTR-VoIP Similar)

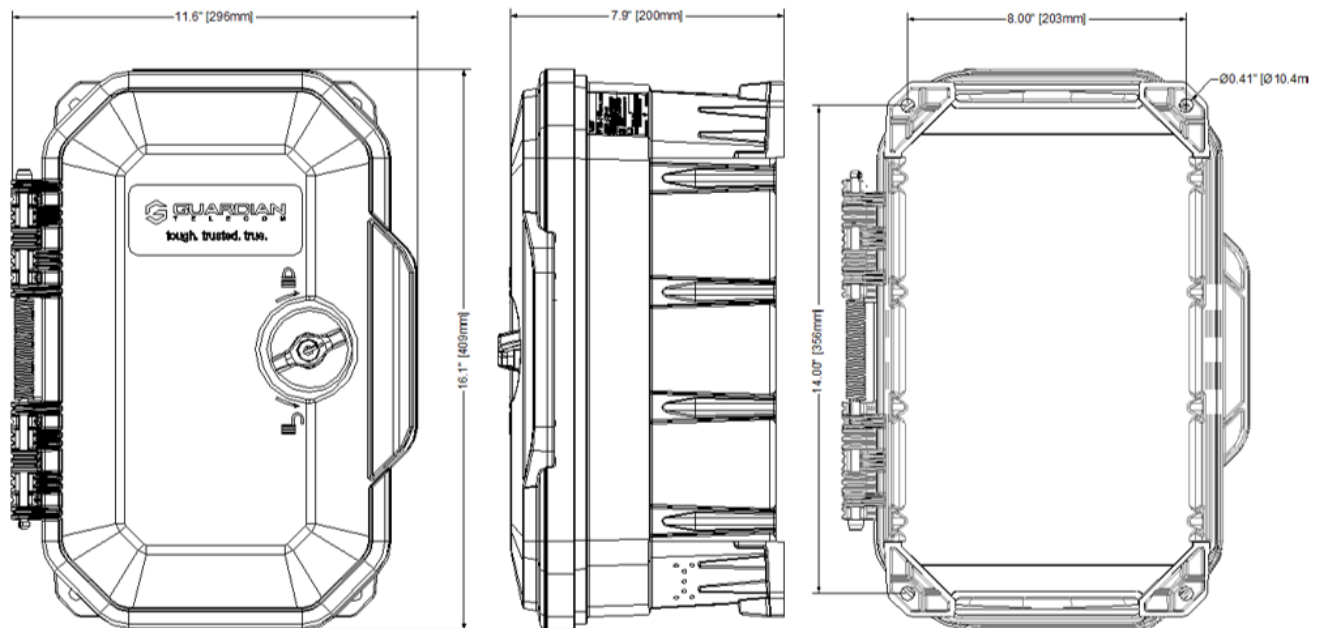
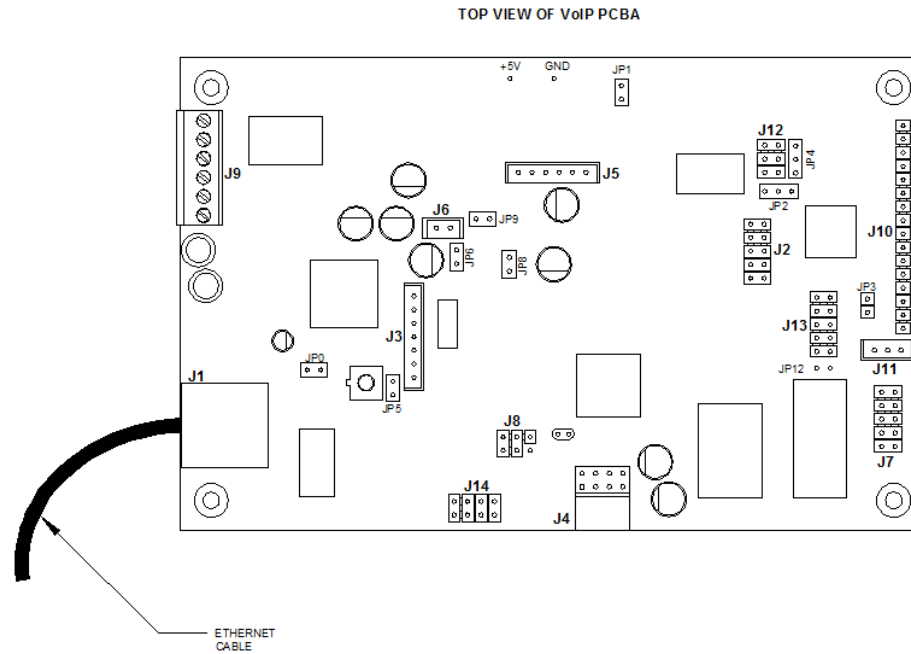


Figure 3 - Overall Dimensions



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

Figure 4 - Wiring

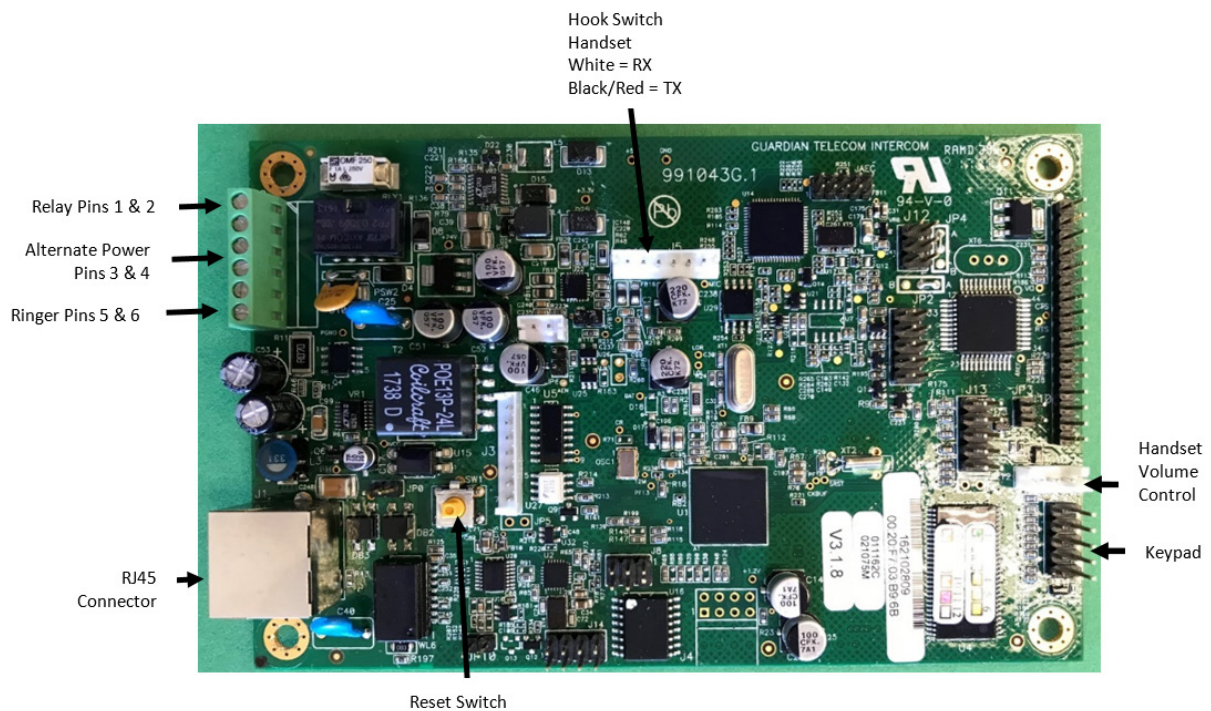


Figure 5 - Circuit Board Layout

4. Installation

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

Note: The VoIP PCBA is susceptible to damage from electrostatic discharge (ESD) and is protected by a metal shield. If it is necessary to remove the shield, take suitable precautions.

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 1/4" 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 7 - 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)
 - G722.1 (Siren7)
 - G722.2 (AMR-WB)
 - G729.1 (G729J & G729EV)

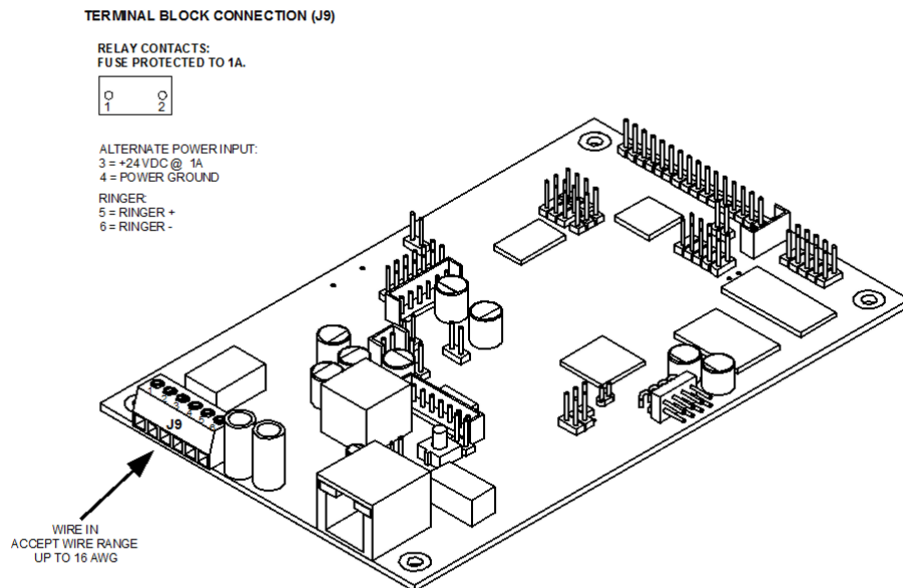
7. Supported SIP Servers

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 24 VDC at 1A can be supplied to the terminal block.

Figure 6 - Terminal Block Connections

8.1. Connecting a Device to the Auxiliary Relay

The WTR/WTT-V-H 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 the rating of the fuse. Consideration of a safety factor is recommended.**

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.

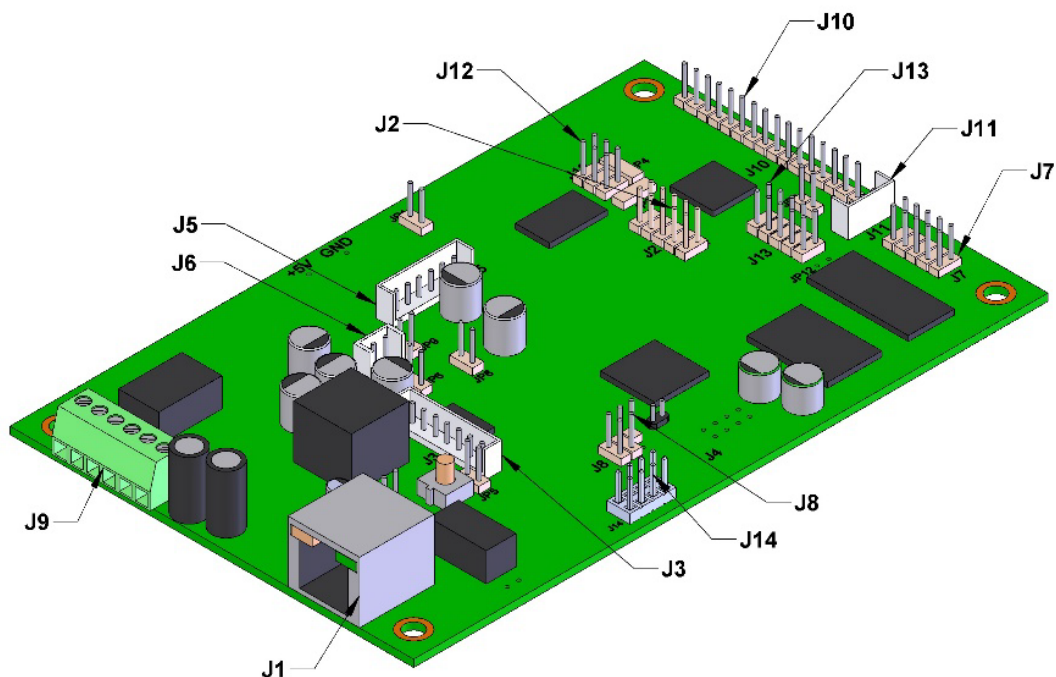
The Telephone relay activation time is selectable through the web interface on the Device Configuration Page. The relay can be controlled by DTMF tones generated from the monitoring phone to which the VoIP phone is connected; or other methods (refer to <Device Config> screen described in Setup manual P007402.

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

Note: Firmware version 3.4.0 or later requires a "#" to execute the DTMF command. Example 321# - activate relay.

*See: Manual P007402
Setup and Configuration*

8.2. Identifying the Connector Locations and Functions



See Figure 6 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

8.3. 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 7). 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.

8.3.1. Verify Network Activity

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

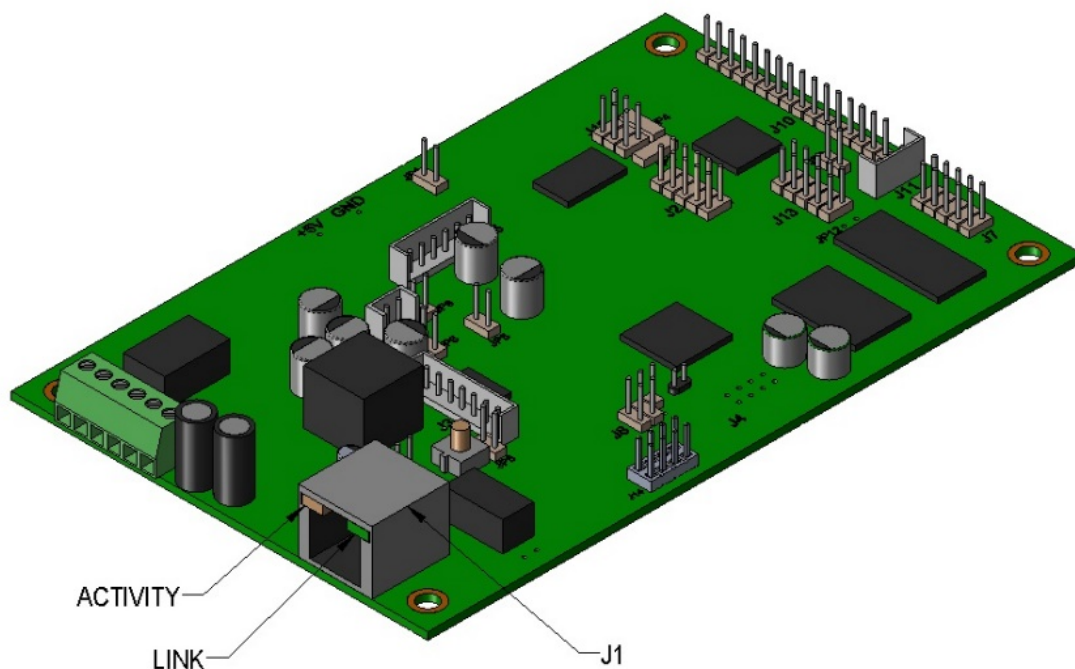


Figure 8 - Network Activity

8.4. RESET Switch

When the Telephone is operational and linked to the network use the Reset Test Function Management (**RESET**) switch (Figure 8), 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.

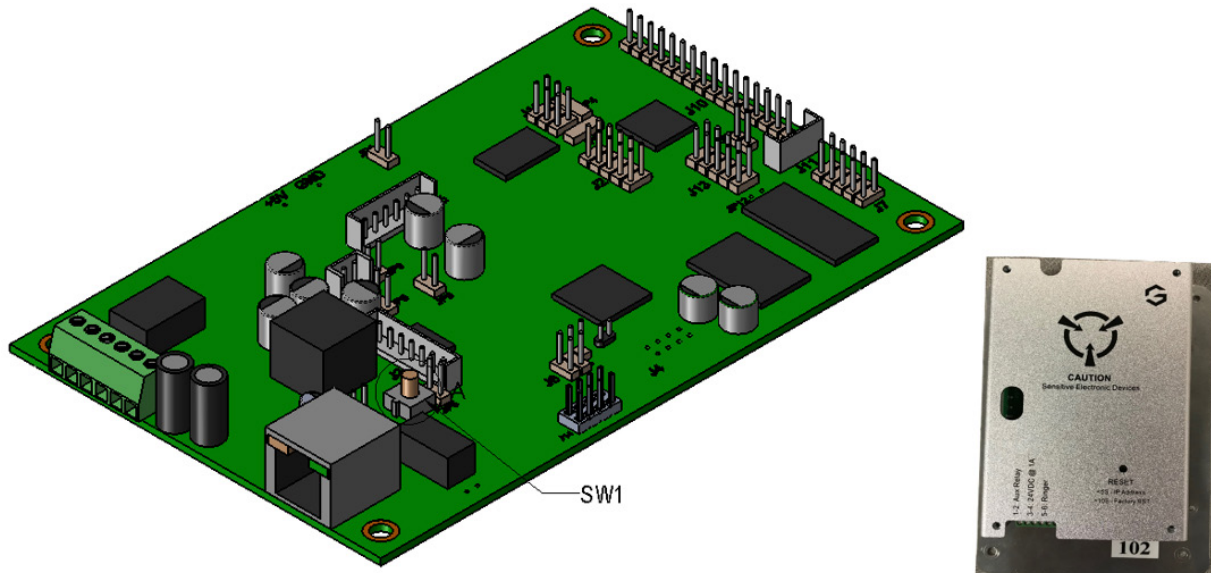


Figure 9 - RESET Switch

8.4.1. 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.

8.4.2. 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).

8.5. Adjust the Volume

You can adjust the volume through the Device Configuration Page.

9. Specifications

Electrical Performance

RINGER OUTPUT	>80 dB
MICROPHONE	NOISE REDUCING ELECTRET
RECEIVER	HEARING AID COMPATIBLE
RELAY CONTACTS	FUSE PROTECTED TO 1A @ 30VDC

Category

Specification

ETHERNET I/F	10/100 MBPS
PROTOCOL	SIP RFC 3261 COMPATIBLE
POWER INPUT (METHOD 1 – THRU LAN: POWER INPUT (METHOD 2) – EXTERNAL SUPPLY:	802.3AF COMPLIANT PoE SWITCH OR POE INJECTOR (44-57V) 24VDC @ 1A
CODECS SUPPORTED	G711, A-LAW AND μ -LAW G722.1 (SIREN7) G722.2 (AMR-WB) G729.1 (G729J AND G729EV)

Environmental

WEATHER AND CORROSION RESISTANT	ENCLOSURE Nema 4X/IP66
TEMPERATURE	-22° TO +140° F (-30° TO +60° C)
HUMIDITY	0 TO 100% RH

Mechanical

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" (409 x 296 x 200 mm)
NET WEIGHT	11.8 LBS (5.4 kg)
SHIPPING DIMENSIONS	20.0" x 15.0" x 12.0" (508 x 381 x 305 mm)
SHIPPING WEIGHT	14.0 lbs (6.3 kg)
HANDSET MATERIAL	HIGH IMPACT ABS
STANDARD MOUNTING	VERTICAL WALL
WIRING ACCESS	THREE DIMPLED DRILL GUIDES FOR 1" GLANDS
HARDWARE MATERIAL	STAINLESS STEEL

COMPLIANCE

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.

Note: The VoIP PCBA is susceptible to damage from electrostatic discharge (ESD) and is protected by a metal shield. If it is necessary to remove the shield, take suitable precautions.

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	Field Replaceable
P002786	Handset - Cradle W/O Thru Holes	Yes
P004371	Handset - Retainer Clips	Yes
P005837	Switch - Proximity Reed Switch Heavy Duty (CC)	Yes
P006443	SA - WTE-100 Enclosure ABS	Yes
P006499	Gasket - WTE-100 Faceplate	Yes
P006513	Faceplate - Water Tight Telephone, WTT	Yes
P006965	Faceplate – Water Tight Ringdown, WTR	Yes
P007228	Handset -4' Coil Cord C/W VC, Tx & Rx (CN)	Yes
P007230	Handset - 22" Armored Cord C/W VC Tx & Rx	Yes
P007319	Ringer - Floyd Bell - VoIP	Yes
P007395	PCBA - VoIP/Tel/Hndst (VoIP Tel)	Yes
P007472	SA - Metal Keypad VoIP C/W PCB & Cable	Yes

12. Warranty

Guardian Telecom, a division of Circa Enterprises Inc. warrants that its products are free from defective workmanship and materials. Guardian Telecom will, within three years from the date of final sale to the customer, replace or repair any such products provided they are returned to our facilities for examination. Freight costs (including brokerage if applicable), both to and from Guardian, are the sole responsibility of the customer. This warranty does not extend to any items that are deemed to have been misused, modified, neglected, improperly specified, improperly installed, or used in violation of instructions or specifications approved by Guardian Telecom. Guardian Telecom, a division of Circa Enterprises Inc. shall not be liable for incidental or consequential damage of any kind caused by any defect in our product. The total liability shall not, under any circumstances, exceed the purchase price of the products furnished by Guardian Telecom, a division of Circa Enterprises Inc.

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

13. 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.

14. 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.

15. Service Telephone Number

1-800-363-8010

Guardian Telecom provides a customer service telephone number that 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, a division of Circa Enterprises Inc.

Toll-free 1-800-363-8010

Phone (403) 258-3100

Fax. (403) 255-2595

www.guardiantelecom.com

16. 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.

17. 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 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 an RMA form online at <https://www.guardiantelecom.com/support/rma/>, 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.

18. 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 such as 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.

19. Storage

General Storage (All situations):

- Note any stacking limits or warnings on packaging (if any).
- Do not store in temperatures over +80C.
- Store in original packaging if possible until needed.

Long Term Storage (> 6 Months):

- If area is air-conditioned and not subject to high changes in humidity, continue to store in original packaging.
- If wide humidity shifts are expected, then use these steps:
 - Remove product from packaging (including plastic bags) and store on shelf in open air.
 - If area is subject to a high degree of dust, to help maintain cosmetic appearance you can cover with cloth (Do not cover with plastic or materials that will trap moisture) or clean periodically.
 - Do not store out of packaging long term where they are exposed to sunlight. Long-term exposure to UV may cause fading on plastic parts.

Date of Purchase

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