

BAT WIFI

SKU: IPD-BAT-WIFI

Wi-Fi, Internet Alarm Communicator



ETHERNET

Technical Support Information

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Revision Notes

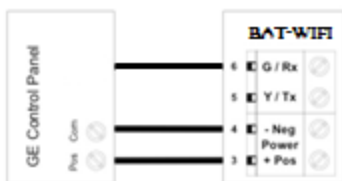
Revision	Notes	Date
1	Initial Release	8/8/2014
2	Updated WiFi Joining Process	1/13/2015

QUICK REFERENCE

See Supported Panels section page 24

GE:

See page 19
for details



Programming for TELCO use on GE NetworX:

Section	Universal WiFi BAT as Sole Communicator
Device 0	
Location 0	Enter the Phone Number
Location 1	Enter Account Number
Location 2	Enter '13' for Contact ID

Honeywell VISTA:

See page 16
for details

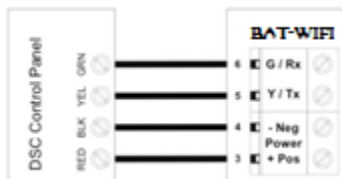


Programming for TELCO use on Vista:

Section	Universal WiFi BAT as Sole Communicator
41	Enter Phone Number
43	Enter Account Number
193	Enter 1, 0. Enable to turn on Address 20

DSC:

See page 12
for details



Programming for TELCO use on DSC:

Section	Universal WiFi BAT as Sole Communicator
301	Enter Phone Number
310	Enter Account Number
350	Enter '03' for Contact ID

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Introduction

ipDatatel's Universal WIFI Broadband Alarm Transceiver (BAT-WIFI) is a multi-path wireless and wired internet connected alarm panel transceiver. The BAT-WIFI transmits alarms over broadband Internet via hardwired RJ45 Ethernet connection or via WIFI wireless networks.

The Bat-WIFI is compatible with any alarm control panel that transmits Contact ID (CID) format from its digital dialer. The BAT-WIFI also connects to the Keypad Bus of compatible (Honeywell, DSC and GE) alarm control panels to provide additional interactive services.

The end user has virtual keypad access via smartphone and the web, as well as alarm monitoring notifications via push/text, email, and computerized voice call.

ipDatatel's proprietary uDownloader software enables remote management of Honeywell and DSC alarm panels that are connected to the BAT-WIFI.

Key Features

- **Broadband Hardwired and WiFi Communicator**

The BAT-WIFI replaces outdated conventional phone lines to provide high-speed IP alarm monitoring transmissions over the Internet.

- **Remote Universal Downloader**

ipDatatel's Universal Downloader software, uDownloader, enables remote management of alarm panels that are connected to ipDatatel's BAT products via the Internet uDownloader currently supports Honeywell Compass and DSC DLS 5. ipDatatel's uDownloader software is available for download at www.alarmdealer.com in the Dealer Resources section.

- **Virtual Keypad Access**

Your customers can operate their alarm system using ipDatatel's SecureSmart app via their smartphone. SecureSmart is compatible with iPhone and Android platforms, and is free to download at the App Store or the Google Play Store – Search for "SecureSmart". The virtual keypad is also available as a web application on www.alarmdealer.com that runs from any Internet connected browser that supports flash.

- **Alarm Notifications via Text/Push and Email**

The BAT-WIFI also provides notifications for alarm, supervisory, trouble, and open/close signals. Notifications by text/push and email identify the alarm system address, alarm signal and zone, and description.

- **Computerized Voice Alarm Notifications**

ipDatatel also provides an exclusive feature of notifications via computerized voice call for customers who may not want text or email messages.

Installation Guide

General Considerations

- Before installation, your BAT-WIFI must also be setup using the dealer Branded Portal www.alarmdealer.com.
- The BAT-WIFI should be installed securely in the supplied plastic housing, and be mounted beside your alarm control panel.
- Where available, proximity to the hard-wired Ethernet Internet connection should be taken into consideration when routing wires.
- Choose a location with good reception by monitoring the BAT-WIFI signal strength LEDs with a pre-wire power up.
- The BAT-WIFI must be completely powered down before starting the wire up.
- Programming is simple using the alarm control panel. Written instructions are included in the “Wiring & Programming” section of this manual starting on page 11.

AP Configuration Tool QuickStart Guide

An easy to use QuickStart Guide has been designed to make the BAT WiFi easily join the customer’s WiFi Network. This guide can be found at: www.ipdatatel.com/support.php or [here](#).

Connecting to a Wireless Network (AP Configuration)

The BAT-WIFI has an AP Configuration Tool which is designed to assist with ensuring the BAT-WIFI joins a wireless network easily.

The following steps should be followed:

1. Power up the BAT-WIFI at the alarm panel.
2. Open your smart phone or laptop and search for Wireless Connections
 - a. In the list of WiFi connections you should see one labeled: IPD-CFG-AP-XX-XX-XX. The last six digits will match the MAC address of your WiFi device. If not, try moving your BAT-WIFI to a different location for better reception.
3. Connect to the WIFI Network: IPD CFG-AP-XX-XX-XX
4. After you are connected to your smart phone or laptop. Open a web browser and type in the following IP Address:
192.168.100.1
5. When you connect to the above IP Address it will launch the AP Configuration Tool.
6. Next you will click on “Scan for Wireless Networks”. It will populate the list of all available wireless networks in your area.

7. Find the customers Wireless Network and click on it. If security credentials are required you will be prompted to enter them.
8. You should now be connected to the customers WIFI Network!

Connecting to a Wireless Network (WPS)

Press the SW1 button (located on the top left side of the board) once, you will send the device into WPS mode. LED 6 will continue to blink as long as the unit is in WPS mode. Follow the router's directions to turn WPS on for it. Typically, enabling WPS involves simply pressing a button labeled 'WPS'. Once the WiFi device and the router see each other, LED 6 will go solid indicating it has found a network. You can now press the SW1 twice to see the signal strength of the unit.

SW1 Button [located on the top left of the board]

There are many uses of the SW1 button and your WiFi device. You can tap on the button from 1 to 4 times depending on what the situation is:

1 Tap - WiFi will go into WPS mode and search for nearest WPS activated WiFi router in the area.

2 Taps - WiFi will update in signal strength [Device must be paired to a WiFi]

3 Taps - WiFi device will factory reset and lose connection to any WiFi it was previously attached to.

4 Taps – WiFi will force a firmware upgrade [Device must be paired to a WiFi router]

Reset the Wireless Network (AP Configuration Tool)

Locate the button labeled SW1 located on the top left of the board. When this button is pressed 3 times in a row, it causes the device to perform a software reset and will allow you to perform the "AP Configuration Tool" again.

Pre-Installation

Hardware Registration

Before installation of your BAT-WIFI, it must be registered at www.alarmdealer.com.

Here are the steps needed to register your hardware:

- Log in to www.alardealer.com with the dealer login information that was emailed to you.
- Navigate to 'Dealer Menu'-'>'Hardware Registration'
- Enter the MAC address for the board you wish to register

Adding the BAT to a Customer Account

After registering the hardware, the BAT-WIFI must be added to a Customer Account by following these steps:

- Log in to alardealer.com with the dealer login information that was emailed to you.
- Navigate to 'Dealer Menu'-'>'User Accounts', then click 'Create Account'
- Fill in the customer information
- Click 'Add Hardware'
- Find and select the BAT-WIFI you registered earlier. You can search for it by MAC address.
- Follow other registration steps and options as found on this page, then click 'Save' to complete the registration.

Locating and Installing the BAT-WIFI

The BAT-WIFI connects to the alarm panel's power connections, Telco, virtual keypad bus (if available), and key switch connections (optional).

The BAT-WIFI automatically seeks an IP address. There is no need to program routers or switches.

Telco - Digital Dialer

The BAT-WIFI's signal collection expects Contact ID format from the digital dialer on the alarm panel. Most control panels made in the last decade are CID capable. Wire the Telco side of the alarm control's Tip & Ring to the BAT-WIFI Tip & Ring.

Virtual Keypad Connection

The BAT-WIFI connects to most panels as a Virtual Keypad, allowing the customer full virtual keypad access after they authenticate using the customer username and password you have assigned them in the pre-installation phase. You will need to refer to the wiring diagram for your specific panel because on the panel side the Virtual Keypad connection has various labels (Data in-Data out, YEL-GRN, or just Data). This connects to the G/RX, Y/TX connections on the BAT-WIFI.

Power Connection

The last step is to wire the alarm panel's 12VDC auxiliary power and ground to BAT-WIFI positive (pin 3) and negative (pin 4) terminals. See Wiring Diagram on page 29.

Basic Programming

Because the BAT-WIFI simulates telephone service to the panel, general programming for the control is limited to configuring the signal format as Contact ID, as well as inputting a telephone number to dial. In this case the actual telephone number does NOT matter and is NOT used in the signal delivery process.

Full Virtual Keypad Programming

For panels that are "Interactive Ready" (See Supported Panels section page 24) the following programming will give you full virtual keypad access to where the customer can enter their 4 digit code to arm & disarm the system, when using SecureSmart mobile and web interfaces.

DSC Panels: No programming required to make the virtual keypad operate.

Vista Panels: Enable *193 with (1,0) to turn on Address 20.

GE Panels: Automatically enroll to Keypad Slot (Expansion 240) once you enter and exit programming.

Troubleshooting Diagnostic Information

Under normal operation the Activity light will periodically blink. A power cycle is recommended if the Activity light is not periodically blinking.

LED – 1 is used for DHCP & Network connection diagnostics:

- **Solid:** Indicates a connection has been made to ipDatatel. (The unit is Online)
- **3 Flashes:** Indicates the device is not connected to the Internet or is not pulling a DHCP from the router.
- **7 Flashes:** Indicates the device is still working on “AP Configuration”, therefore is not connected to a WiFi Network.

LED – 2

- Used to indicate Key Bus Connectivity.

LED – 6 (When not connected to a WiFi Router)

- **Flashing:** Indicating it's searching for a router in WPS Mode.
- **Solid:** Indicates it found a router via WPS Mode.

LEDs – 3 to 6 (When connected to a WiFi Router)

- Display Signal Strength, which is updated on Startup and once every 4 hours.

Validating the Installation

After the unit is properly connected to the Alarm Panel and powered up, use the following steps to validate that the system is functioning properly:

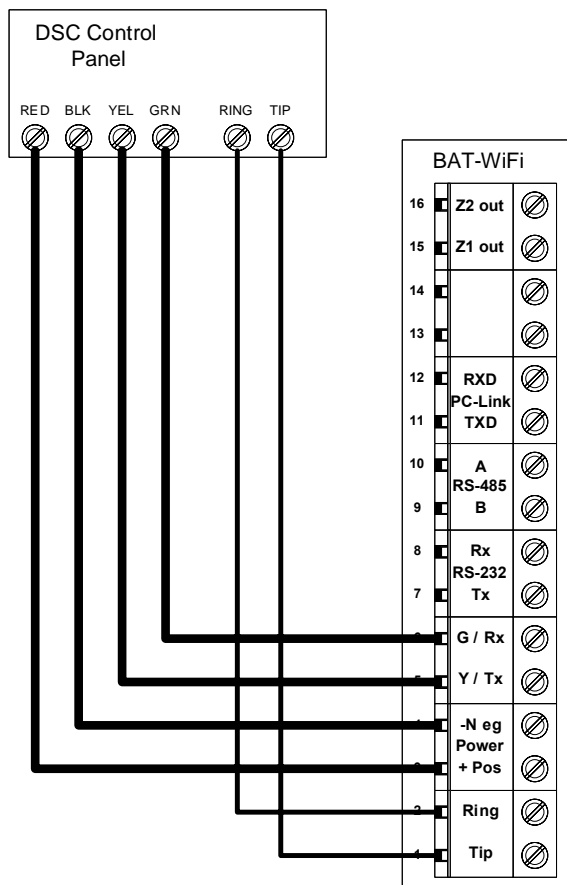
- Ensure that virtual keypad functionality works through www.alarmdealer.com, setup.alarmdealer.com, or the SecureSmart mobile app.
- Ensure that alarm signals reach your central station.

Wiring & Programming for Popular Panels

The following pages are organized by Alarm Panel type. Wiring and programming instructions are given for:

- Digital Security Control (DSC) Alarm Panels
- Honeywell Vista Alarm Panels
- GE NetworX Alarm Panels

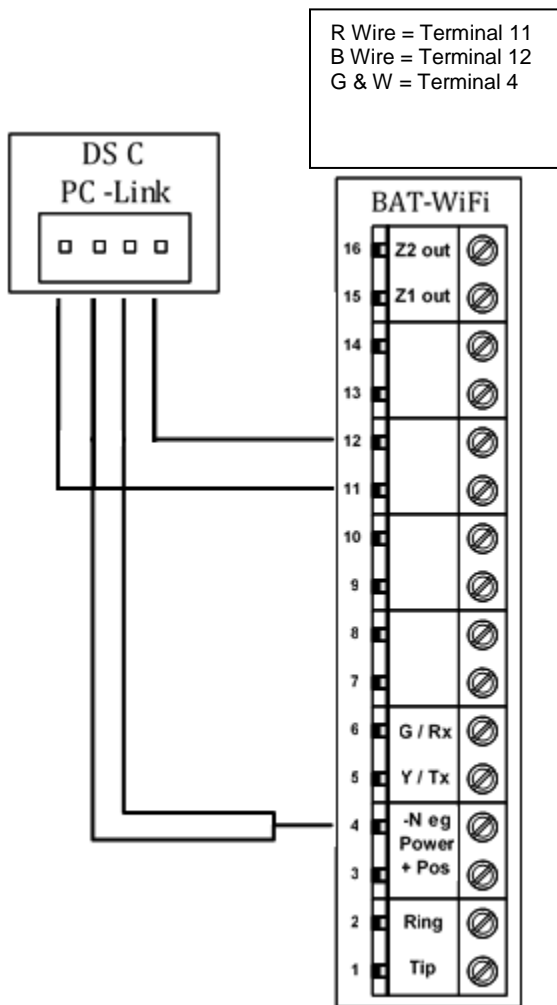
DSC Panel Wiring and Programming



DSC Keybus & Tip/Ring Wiring

DSC PC-Link connection

This allows for remote downloader functionality with ipDatatel's Universal Downloader (uDownloader) software.



DSC PC-Link Wiring

DSC Panel Programming

See Supported Panels section on page 24. All Control Panels must have a Phone Number in the Panel and an Account Number in the Panel. As long as your Reporting Codes are in the Panel and is transmitting in Contact ID it will send signals.

Programming when using TELCO (Recommended): General Concept Programming on DSC (BAT WiFi as Sole Communicator):

Section	BAT as Sole Communicator	Code Summarization
301	Enter a Receiver Number	
310	Enter Account Number	
350	Enter '03' to send Contact ID	Panel default is '04', SIA

Note: Ensure All Report Codes are in, and signals can be sent.

Programming ONLY when using PC-Link to send Signals (Not Recommended): DSC Programming for Communications - GSM Emulation:

If GSM is used, it must be in dialer capture mode

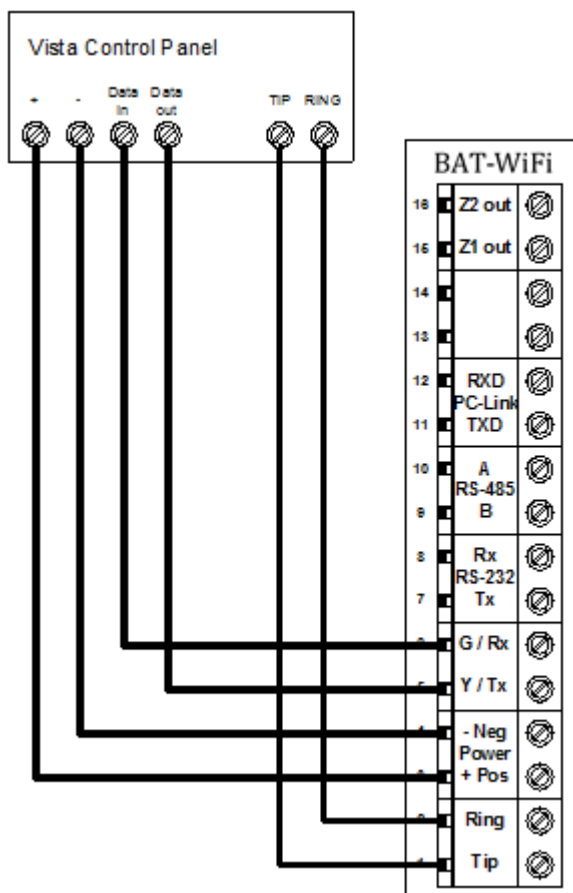
Section	BAT as Sole Communicator	BAT as Failover w/ Add'l Communication Device	BAT as Dual Reporting w/ Add'l Communication Device	Code Summarization
015	Disable Option 7	If GSM, Disable Option 7 If Phone Line, Enable Option 7	If GSM, Disable Option 7 If Phone Line, Enable Option 7	Option 7 turns on/off telephone line supervision.
167	Set '060' Seconds	Set '060' Seconds	Set '060' Seconds	Sets T-Link acknowledgement delay to 60 secs.
301	Set 'CAAF'	Set 'CAAF'	Set 'CAAF'	'CAAF' has to be set for the panel to send signals to the PC-Link
302	N/A	N/A	Set 'Central Station Receiver #'	Second telephone number goes here.
303	N/A	Set 'Central Station Receiver #'	Set 'Central Station Receiver #'	This section is the telephone backup of section 301.
350	Set '04' / '04'	Set '04' / '03 for Contact ID, 04 for SIA FSK' **	Set '04' / '03 for Contact ID, 04 for SIA FSK' **	Format sent as either contact ID (03), or SIA FSK (04). The PC-Link / BAT can ONLY receive signals via SIA FSK (04).

Programming ONLY when using PC-Link to send Signals (Not Recommended):

if GSM is used, it must be in dialer capture mode

Section	BAT as Sole Communi-cator	BAT as Failover w/ Add'l Communi-cation Device	BAT as Dual Reporting w/ Add'l Communi-cation Device	Code Summarization
351	Enable Option 1	Enable Option 1, 5	Enable Option 1, 2, 5	Options to turn on/off alarm/restore for telephone 1 (option 1), telephone 2 (option 2), and alternate communications (option 5).
359	Enable Option 1	Enable Option 1, 5	Enable Option 1, 2, 5	Options to turn on/off tamper/restore for telephone 1 (option 1), telephone 2 (option 2), and alternate communications (option 5).
367	Enable Option 1	Enable Option 1, 5	Enable Option 1, 2, 5	Options to turn on/off opening/closing for telephone 1 (option 1), telephone 2 (option 2), and alternate communications (option 5).
375	Enable Option 1	Enable Option 1, 5	Enable Option 1, 2, 5	Options to turn on/off maintenance for telephone 1 (option 1), telephone 2 (option 2), and alternate communications (option 5).
376	Enable Option 1	Enable Option 1, 5	Enable Option 1, 2, 5	Options to turn on/off testing for telephone 1 (option 1), telephone 2 (option 2), and alternate communications (option 5).
380	Enable Option 1	Enable Option 1, 5	Enable Option 1, 5	Option 1 turns on/off communications. Option 5 turns on/off 3rd phone number.
381	Disable Option 3, Enable Option 5	Disable Option 3, Enable Option 5, 6	Disable Option 3, Enable Option 5, 6	Option 3 turns on/off code reporting. Options 5 & 6 turns on/off communication with phone lines 1/3 & 2 respectively.
382	Enable Option 5	Enable Option 5	Enable Option 5	Option 5 enables/disables T-Link/PC-Link.
389	Set '003' Seconds	Set '003' Seconds	Set '003' Seconds	The time it will take to periodically check for faults on the T-Link/PC-Link.

Vista Panel Wiring and Programming



Vista Keybus & Tip/Ring Wiring

Vista Panel Programming

See Supported Panels section on page 24. All Control Panels must have a Phone Number in the Panel and an Account Number in the Panel. As long as your Reporting Codes are in the Panel and is transmitting in Contact ID it will send signals.

Programming when using TELCO (Recommended):

Programming on Vista (BAT WiFi as Sole Communicator):

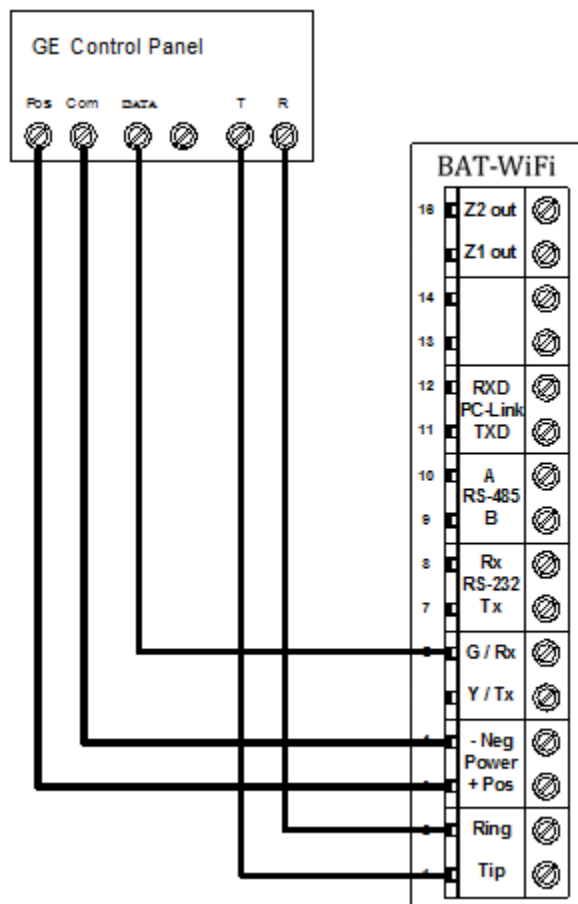
Section	For BAT as Sole Communicator	Code Summarization
41	Enter Phone Number	
43	Enter Account Number	
49	Enter 5	For All Communications to BAT
54	Enter 0	No Delay Between Communicators
55	Enter 0	Phone Line Communicates First
65 & 66	Enter 1	If you want Opening/Closing Reports
193	Enter 1, 0	Enable to turn on Address 20

Programming when ONLY using Keybus to send Signals (Not Recommended): Vista Programming for Communications - GSM Emulation:

Section	For BAT as Sole Communicator	For BAT in use with another Communication Device for Failover	For Dual Reporting	Code Summarization
*29	Enter 1	Enter 1	Enter 1	This enables GSM. The BAT Emulates a GSM.
*42	N/A	Enter Central Station Receiver Number	Enter Central Station Receiver Number	Secondary Phone Number
*43	Enter Account Number	Enter Account Number	Enter Account Number	This is the central station account number
*49	Enter 5	Please refer to panel manual for your particular application requirements	Please refer to panel manual for your particular application requirements	Dual Reporting; Setting to 5 sends all reporting to both primary and secondary.
*54	Enter 0	Enter 2	Enter 0	The time it takes for the communicator to switch from primary to secondary.
*55	Enter 1	Enter 1	Enter 1 (BAT is Primary Communicator)	Setting to 1 gives signal priority to GSM (BAT).
*65	Enter 1	Enter 1	Enter 1	Report Code for Openings.
*66	Enter 1, 1	Enter 1, 1	Enter 1, 1	Report Code for Arming in Away and Stay.
*193	Enter 1, 0	Enter 1, 0	Enter 1, 0	1 turns on/off keypad address. 0 sets sound to beep.

See Supported Panels section on page 24 to verify your panel's revision number and GSM emulation programming.

GE Panel Wiring and Programming



GE Keybus & Tip/Ring Wiring

GE Panel Programming

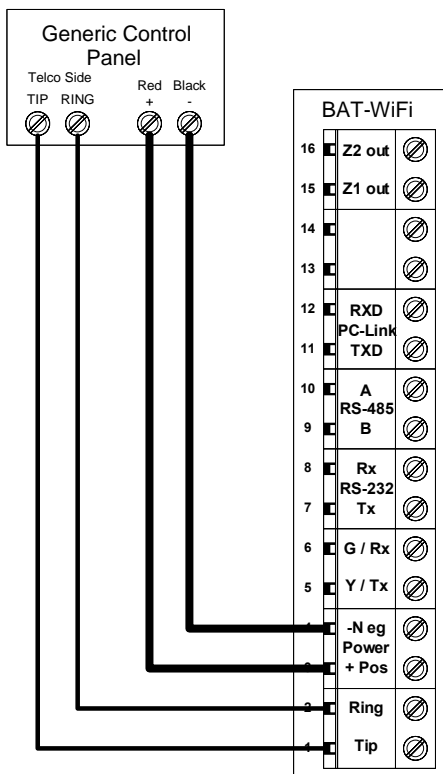
See Supported Panels section on page 24.

Recommended: General Concept Programming on GE NetworX:

Section	BAT as Sole Communicator	Code Summarization
Device 0, Location 0	Enter the Phone Number	
Device 0, Location 1	Enter Account Number	
Device 0, Location 2	Enter '13' Recommended value	Contact ID

Generic Alarm Panel Wiring and Programming

Generic Keybus & Tip/Ring Wiring



Generic Alarm Panel Programming

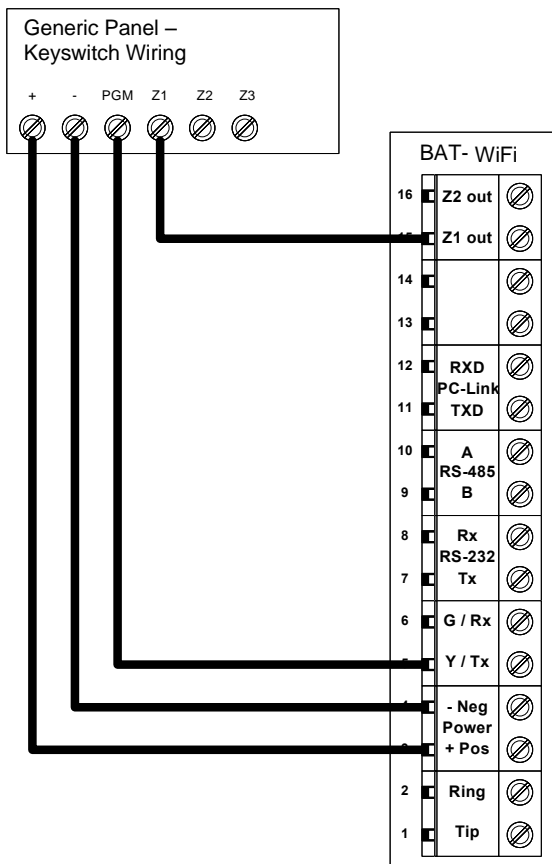
- Program the panel Phone Number into the panel
- Program the Customers Account Number into the panel
- Program Reporting codes into the panel
- Program panel to transmit in Contact ID format

For interactive (Keyswitch) wiring and programming see the next section.

Generic Keyswitch Wiring and Programming

For basic keyswitch interactive services with the BAT WiFi, the following alarm panel wiring is needed.

- A programmable output on the alarm panel will be used to signal to the BAT (Y/Tx terminal) that the panel has entered Arm/Disarmed State.
- The Z1 output on the BAT WiFi will be used as a key switch connecting to a 'zone' terminal on the alarm panel.



Generic Keyswitch Programming

Keyswitch state programming examples for Ademco, Digital Security Controls, and GE NetworX for Keyswitch and panel state program output operations are given below.

Most alarm panel manufacturers will have the capability to configure a zone as a keyswitch and generally have at least one on-board programmable output that can be configured to activate on a number of different control state conditions. Reference the alarm panel installation manual for details on your specific installation.

Ademco (Typical)

56 program zone as type 77

80 Menu LED Outs

Program 17 and 18 zone type 78 and 79

DSC PowerSeries (Typical)

Section 001 - Zone must be programmed as a 22.

Section 009 - 05

DSC Alexor (Typical)

Wiring:

Terminal 5 -> I/01

Terminal 15 -> I/02

6.2k ohms resistor from Terminal 3 -> Terminal 5

Programming:

Section 009 - '05'/'22'

Section 013 - Enable 2 & Disable 1

Section 134 - Enable 14 (Press 9, then 6)

Section 206 - Enable Option 2.

Section 501 - Enable 3

GE NetworX (Typical)

Device '0' Location 25, press * until you reach desired zone

Program zone as '11'

LED Status

Device '0'

Location 47 Segment 1: 21

Location 47 Segment 2: 0

Supported Panels

Honeywell

Panel	Revision	Digital Full		GSM
		Dialer	Interactive	Emulator
Vista-10P	2.6+	✓	✓	✓
Vista-10PSIA	4.0+	✓	✓	✓
Vista-128BP	3.0+	✓	✓	✓
Vista-128BPE	1.0+	✓	✓	✓
Vista-128FB	1.0+	✓	✓	✓
Vista-128FBP	2.0+	✓	✓	✓
Vista-128FBPE	1.0+	✓	✓	✓
Vista-128SIA	2008+	✓	✓	✓
Vista-15	2+	✓	✓	✓
Vista-15CN	2.6+	✓	✓	✓
Vista-15P	2.6+	✓	✓	✓
Vista-15PCN	2.6+	✓	✓	✓
Vista-15PSIA	4.0+	✓	✓	✓
Vista-20P	2.6+	✓	✓	✓
Vista-20PCN	2.6+	✓	✓	✓
Vista-20PI	5+	✓	✓	✓
Vista-20PS	2.6+	✓	✓	✓
Vista-20PSIA	4.0+	✓	✓	✓
Vista-21IP	1.0+	✓	✓	✓
Vista-21IPSIA	1.0+	✓	✓	✓
Vista-32FB	1.0+	✓	✓	✓
First Alert FA130	2.6+	✓	✓	✓
First Alert FA148	2.6+	✓	✓	✓
First Alert FA168	2.6+	✓	✓	✓
ADT Safewatch Pro 3000/3000EN	2.6+	✓	✓	✓

DSC (Digital Security Control)

Panel	Revision	Digital Full		GSM
		Dialer	Interactive	Emulator
PC5010	Any	✓	✓*	x
PC1616	4.13+	✓	✓	✓
PC1832	4.13+	✓	✓	✓
PC1864	4.13+	✓	✓	✓
Alexor	ALL	✓	x	x

*Not ALL virtual keypad features may work. Arm/Disarm/System Status do work.

GE NetworkX

Panel	Revision	Digital Full		GSM
		Dialer	Interactive	Emulator
NX-4V2	V2+	✓	x	x
NX-6V2	V2+	✓	x	x
NX-8V2	V2+	✓	x	x

Note: Any Panel not on the supported lists above should function properly as long as it transmits Contact ID through Tip & Ring. If the panel has the ability to use a Dedicated Open Zone that acts as a Keyswitch you can Arm/Disarm from the Website or Mobile Phone.

For non-supported panels: Bridge 12 VDC to "Y/TX" Terminal with any type of radial resistor with a value of 2.7k to 10k as a weak "pull up".

Warranty Information

LIMITED WARRANTY

ipDatatel, LLC (hereinafter referred to as “Seller”), Located at 13110 Southwest Freeway, Sugar Land Texas 77478, warrants its product to be in conformance with the product specification, and to be free from defects in materials and workmanship under normal use and service for a period of twelve (12) months from the date of original purchase. Seller’s sole obligation shall be limited to repairing or replacing, at its option, free of charge for materials or labor, any product which is proved not to be within Seller’s specifications of the Product, or proves defective in materials or workmanship under normal use and service.

Any device purchased which is enclosed within a plastic case must remain in the plastic case for installation and regular use after installation. At no point should the device be removed and mounted without the plastic case, in doing so you may void the device warranty.

LIMITED LIABILITY

Seller shall have no liability or obligation under this Limited Warranty or otherwise for merchantability or fitness for any particular use; nor shall it extend its Limited Warranty, if the product is altered, or improperly installed, repaired, or serviced. There are no warranties, express or implied, that extend beyond those contained within this document. In no case shall Seller be liable to person or entity for any consequential, or any other basis of law or liability whatsoever, whether or not such loss or damage is caused by Seller’s own negligence or fault.

Seller does not represent that the Product may be compromised or circumvented, or that it will provide the service intended; or that the Product will prevent any personal injury or property loss by burglary, robbery, or otherwise; or that the Product in all cases will provide adequate warning or detection.

Customer understands that a properly installed and maintained alarm system may only reduce the risk of burglary, robbery, or other such events occurring without providing an alarm, but is not insurance or guarantee that such will not occur or that there will be no personal injury or property loss as a result.

Consequently, Seller shall have no liability for any personal injury, property damage or any other loss based on a claim that the Product or services there from, failed to give warning. However, if seller is held liable, directly or indirectly, for any loss or damage arising under this Limited Warranty or otherwise regardless of cause or origin, Seller maximum liability shall not in any case exceed the purchase price of the Product, which shall be the complete and exclusive remedy against Seller.

This Limited Warranty replaces any previous warranty, and is the only warranty made by Seller for this Product. No increase or alteration, written or verbal.

FCC and Industry Canada Regulatory Compliance

FCC Warning / IC Statement

This device complies with Part 15 of the FCC Rules and with ICES-003, Issue 4 of Industry Canada. 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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Canada Avertissement de la FCC / IC Déclaration

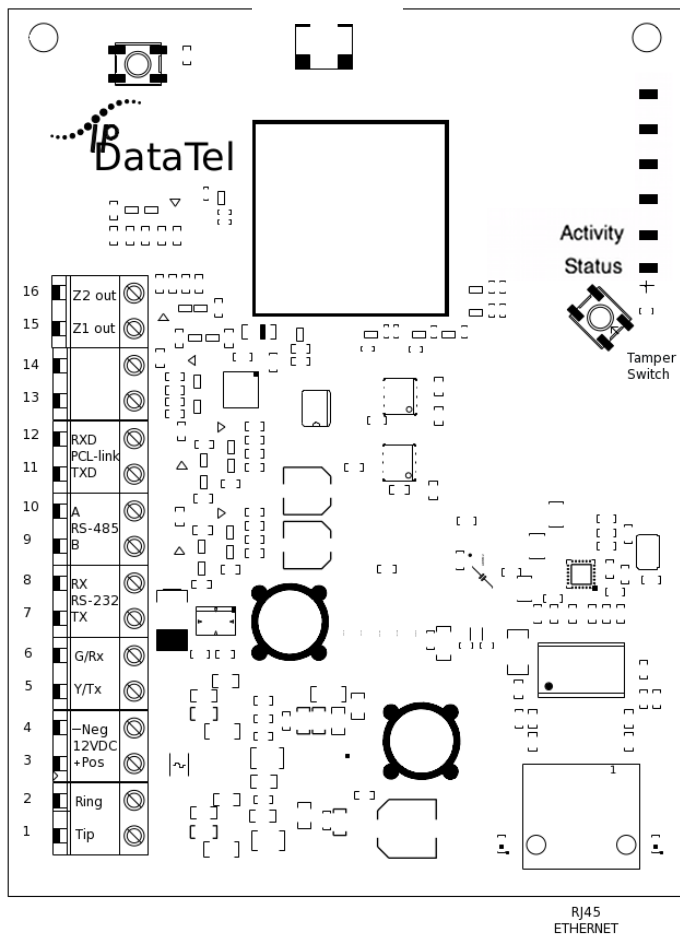
Cet appareil est conforme à la Partie 15 des règlements de la FCC et ICES-003, 4 e édition d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes:

- (1) Cet appareil ne doit pas causer d'interférences nuisibles et
- (2) Cet appareil doit accepter toute interférence reçue, y compris les interférences qui peuvent perturber le fonctionnement.

Note: Cet équipement a été testé et trouvé conforme aux limites pour un dispositif numérique de classe B, conformément à la Partie 15 des règlements de la FCC. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre des fréquences radio et, s'il n'est pas installé et utilisé en conformité avec les instructions, peut causer des interférences nuisibles aux communications radio. Cependant, il n'existe aucune garantie que des interférences ne se produiront pas dans une installation particulière. Si cet équipement provoque des interférences nuisibles à la réception radio ou de télévision, qui peut être déterminé en mettant l'équipement hors tension, l'utilisateur est encouragé à essayer de corriger l'interférence par un ou plusieurs des mesures suivantes:

- Réorienter ou déplacer l'antenne de réception.
- Augmenter la distance entre l'équipement et le récepteur.
- Branchez l'appareil dans une prise sur un circuit différent de celui auquel le récepteur est connecté.
- Consulter le revendeur ou un technicien radio / TV.

Universal WiFi BAT Circuit Board Detail



Specifications

Frequency:

- WiFi 802.11bg(mixed mode)

Power:

- Externally provided 12v DC
- Typical Current 130 mA
- Max Current 185mA

Environmental:

- Temperature Range - 30° to +70° C (- 22° to +158° F)
- Humidity 0 to 95% non-condensing

Physical:

- Height 7.05 inches
- Width 4.45 inches
- Depth 1.5 inches

Security Protocols Supported:

- WPA
- WPAII
- WEP



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