



# DataRemote VAB-1

## User Manual



## Version History

Version 1.5	6/24/2022	Added wall mounting instructions
Version 1.4	6/23/2022	Added section for statements/disclaimers Updated to latest version of device photo
Version 1.3	3/29/2022	Added photo of power supply
Version 1.2	3/29/2022	Added Version History Section Fixed typo in section, Before Setting Up Clarified wall outlet for plug to be USA style Removed DR logo from face of device Changed “power cable” to “power supply”
Version 1.1	3/28/2022	Initial Draft

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## Product Overview

The Voice and Backup “VAB-1” Cellular/PSTN/MFVN capable communications and Internet backup solution enables multiple combinations of internet failover, battery backup, legacy analog wireline in-band Voice, Machine to Machine (M2M) Data, DTMF signaling tones, analog data modem tones, FAX and Alarm system signals (all previously connected to the Public Switched Telephone Network [PSTN]), to be carried over flexible combinations of WAN/LAN/LTE Cellular Data Networks.

## Statements & Disclosures

### Attention

The RJ-11 ports are not evaluated to Clause 6 because these connectors are not intended to be connected to Telecommunication Network. These connectors only connect to indoor legacy analog equipment such as a telephone, modem, FAX, alarm dialer, one number dialer, etc.

**NOTE: Please do not connect PSTN line to RJ11 port directly, RJ11 ports only connected within the building.**

### FCC Regulations

DataRemote Incorporated, declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. 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, many causes 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

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices)

## FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment 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.

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.



### **CALIFORNIA PROPOSITION 65 WARNING**

This product can expose you to chemicals including Carbon black and Nickel, which are known to the State of California to cause cancer, and including Bisphenol A and 1,3-Butadiene, which are known to the State of California to cause birth defects and/or other reproductive harm. For more information please visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## **E911 Disclaimer**

### **PLEASE READ THE FOLLOWING IMPORTANT 911 INFORMATION**

The POTS in a BOX® and related Services relies on an Internet -based IP network and adequate power or battery to function.

This Section provides important information for Customer about emergency calling, including 911/E911 services in the U.S. for this Service. In compliance with the Federal Communications Commission (FCC) WC Docket No. 05-196, DataRemote, Inc. hereby advises all current and potential customers that enhanced E911/911

calling services are available at this time but may not be available in all service areas and may/or may not function the same as traditional 911 Services.

**YOU ACKNOWLEDGE THAT DATAREMOTE DOES NOT OFFER ALTERNATE PRIMARY LINE OR LIFELINE SERVICES.**

**IT IS STRONGLY RECOMMENDED THAT YOU ALWAYS HAVE AN ALTERNATIVE MEANS OF ACCESSING TRADITIONAL 911 OR EMERGENCY DIALING SERVICES.**

In some instances, 911 service may not be available when using an Interconnected VoIP service or may be limited in comparison with traditional 911 telephone or commercial mobile radio service ("CMRS") service. These instances include, but are not limited to:

- 9-1-1 is dialed from a location other than the Registered Location last provided;
- The broadband connection (wired, wireless and/or Wi-Fi) is unavailable, or has been disrupted or impaired;
- The data service upon which the broadband connection is dependent is terminated or is disrupted or impaired;
- Loss of electrical or battery power;
- Network Congestion/outages;
- Customer or User terminal equipment is not configured correctly;
- Applicable equipment set-up instructions are not properly followed;
- Delays have occurred in processing a newly updated registered location;
- Customer has not provisioned and connected PSTN service for one or more locations;
- Customer has not updated DataRemote or Service provider of change of Registered Location;
- Payment of your subscription service.

Accordingly, Customer should always have an alternate means of accessing traditional 911 services, or other applicable emergency calling services, and such alternative means should include the ability to access 911 services, or other applicable emergency services, through the Public Switched Telephone Network where available. Failure to update Registered Location information may result in emergency calls being routed to the incorrect Public Service Answering Point (PSAP), preventing or delaying emergency response. If Customer changes the phone number used for 911 calling, Customer must register the new E911 CLID number and its associated address with DataRemote, in order to enable 911 capabilities for the updated number. Failure to do so may result in 911 services not being available to Customer when using an unregistered phone number

If you use a Private Branch Exchange (PBX) telephone system, the 9-1-1 dispatcher may see only your corporate or billing address, not the location information of the emergency. Customer should inform all Users of the Service of these limitations (including but not limited to, and of available alternate means of accessing 911/E911, or other emergency calling services. If you are unable to speak during a 911 call, the emergency operator will assume that the call originates from your last registered address.

If your account is suspended or terminated, all services, including E911, will cease to function. No E911 address accuracies guarantees are made during a Proof of Concept or demonstration of the product and you agree to hold harmless DataRemote for any claims made as to the provision of the E911 services. DATAREMOTE SPECIFICALLY DISCLAIMS ALL LIABILITY RELATED TO THE E911 SERVICE. We recommend that you leave this notice near your phone or device.

**YOU HAVE READ AND UNDERSTAND THE LIMITATIONS ASSOCIATED WITH THE 911 SERVICES DESCRIBED ABOVE. YOUR USE OF THE DEVICE AND SERVICES SHALL BE DEEMED AS UNDERSTANDING AND ACKNOWLEDGMENT OF THE ABOVE DISCLAIMER.**

**CAUTION**



The battery used in this device may present a risk of fire or chemical burn if mistreated. Replace the battery with only a DataRemote manufactured or approved battery. Use of another battery is prohibited, and may present a risk of fire or explosion and void any battery or device warranties. Dispose of used battery promptly and in a manner authorized by your jurisdiction. The battery charging circuit shall stop charging when the temperature of the battery exceeds 60°C  
Maximum body temperature allowed by the battery: 60°C

**Do not disassemble, crush and do not dispose of it in fire. Keep away from children.**



## Before Setting Up

The VAB-1 uses a cellular network and/or terrestrial broadband for internet communication. The VAB-1 does not use carrier provided phone wall jacks (POTS lines).

### Select which phone(s) you will use with VAB-1

- Before you begin setup, unplug your existing phone(s) from the wall jack(s).
- If you would like multiple handsets throughout your home, please use a cordless phone system that includes multiple handsets.

### Select a location for your VAB-1 device

An ideal location balances several factors:

- Near your existing phone.
- Where you have a strong cellular signal from a cell tower, typically on the first or second floor near a window or outside wall. Signal strength may vary in different parts of your location.
- Near an electrical wall outlet.
- Near your broadband router.

### Device Installation on a Tabletop

The VAB-1 is designed to stand alone on a horizontal surface, i.e. desktop, tabletop, or shelf. Make sure the bottom of the device (the side with the circular battery cover) is facing down on the table top.

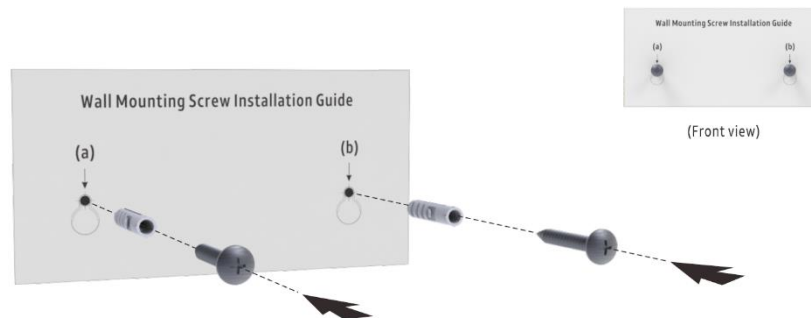
## Device Installation with Wall Mounting

The VAB-1 can also be optionally wall-mounted. To do this, follow these steps:

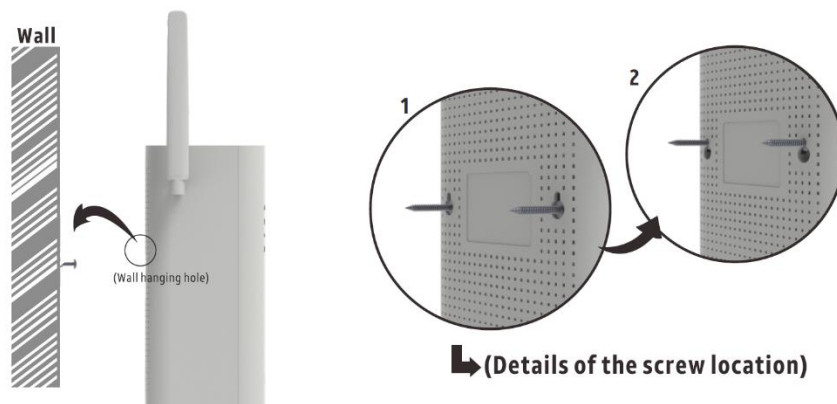
- 1) Temporarily affix the supplied hole alignment template to the wall. Be sure that the template is horizontally aligned.



- 2) Drill pilot holes for the supplied screw anchors if necessary, and install the screws as depicted. Be sure to insert the screw in the position shown, in the top notch of the hole.

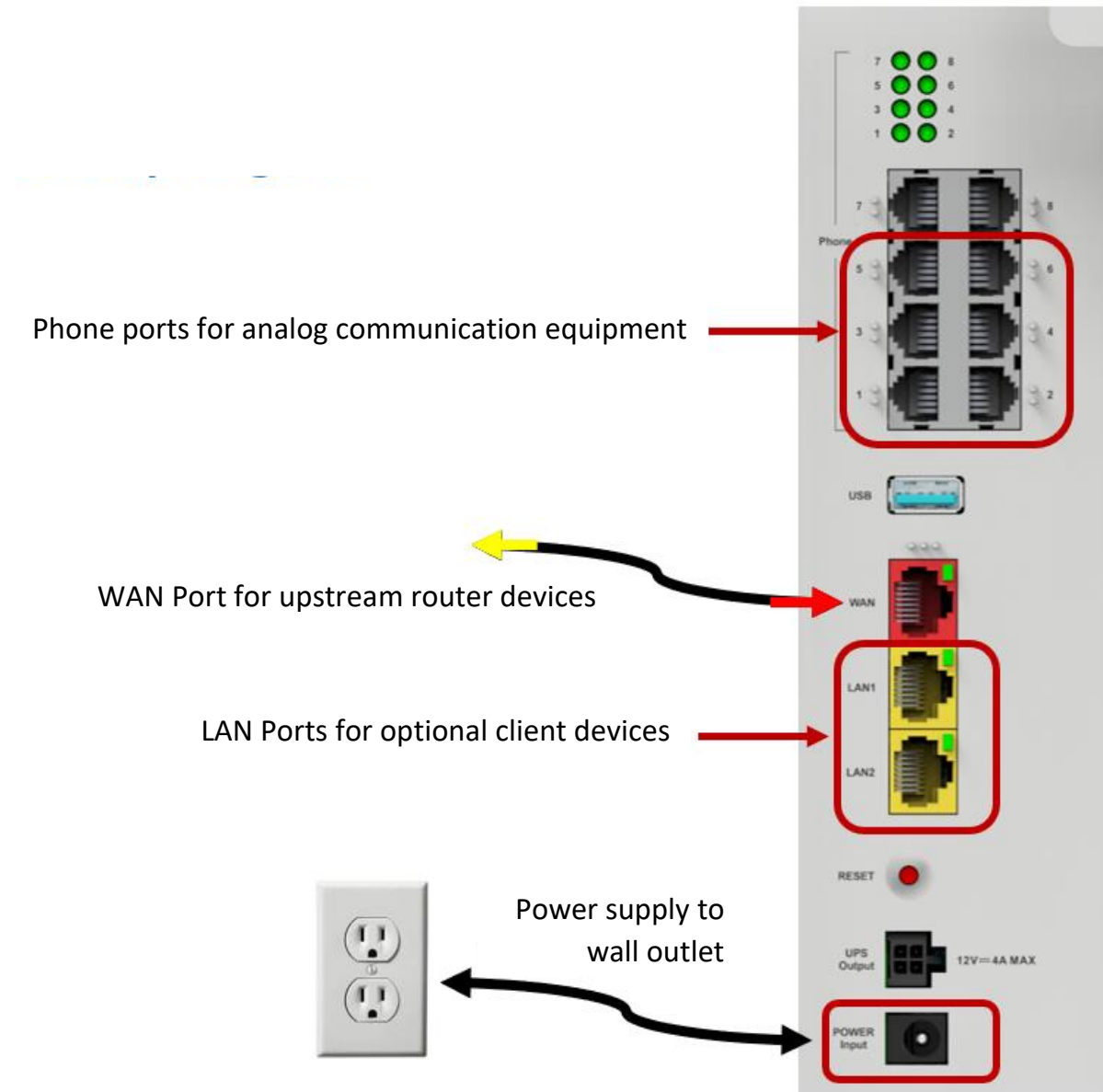


- 3) Mount the VAB-1 on the screws. Ensure that the screws are left out just enough to provide clearance for the screw to slide into the top notch of the VAB-1 mounting holes.



## Setting Up the VAB-1

The following diagram provides detail about the ports that you will be using on the back of the VAB-1 device as part of the installation process.



## Step 1 – Unpack the package

Take the VAB-1 device and related accessories out of the box.

## Step 2 – Attach cellular antennas

Attach the two cellular antennas to the VAB-1 device by using the 2 SMA connectors



## Step 3 – Connect broadband ethernet

If you have broadband Internet service, attach an ethernet cable from the red WAN port on the back of the VAB-1 device to one of the LAN ports (usually yellow) on your broadband modem/router. This will help ensure you will have the best service possible.



## Step 4 – Connect power supply

Attach one end of the power supply to the POWER Input port on the back of the VAB-1 device, and the other end into a USA 120V/60Hz wall power outlet.



## Step 5 – Check cellular signal strength

Check the cellular signal strength indicator on the front of the VAB-1 device. If you don't see one or more green bars of signal strength, try moving the VAB-1 to a higher floor (and/or closer to a window).

## Step 6 – Connect phone equipment

Connect a phone cable between your phone and the associated phone port on the back of the VAB-1 device. Repeat this step for any alarm, FAX, and/or modem lines that have been set up for your service.



**WARNING:** DO NOT plug the VAB-1 phone cable into your home phone wall jack. This could damage the device.



**911 NOTICE: BEFORE MOVING THIS VAB-1 DEVICE TO A NEW ADDRESS, CONTACT YOUR VOIP PROVIDER TO UPDATE THE SERVICE ADDRESS.** You must keep the registered address of this device up to date to ensure a 911 operator will receive your proper location information. When a 911 call is placed, you may have to provide your location address to the 911 operator. If not, 911 assistance may be dispatched to the wrong location. If you move this device to another address without first contacting your VOIP provider service may be suspended.

## LED Behavior

Icon	Icon Name	Status	Condition
<b>Signal</b>	Cellular Signal Strength	4 Bars	Very strong signal
		3 Bars	Strong signal
		2 Bars	Medium signal
		1 Bar	Weak signal
		Off	No signal
<b>LTE</b>	Cellular Link	Green Solid	Cellular link is complete
		Green Flashing	Attempting to complete cellular link
		Off	No cellular link
<b>Battery</b>	Battery Power	Green Solid	Battery charged & power connected
		Blue Flashing	Battery charging
		Amber Flashing	Battery in use & power not connected
		Red Flashing	Battery low & power not connected
<b>Power</b>	Device Power	Green Solid	On
		Off	No power
		Red or Blue	Device issue – Contact Support
<b>Phone 1-8</b>	Phone Jacks	Green Solid	Ready
		Green Slow Flash	Ringling or ongoing call
		Green Fast Flash	Registration failed. Contact Support
		Off	No active line
<b>WAN/LAN</b>	WAN/LAN Jacks	Green Solid	Link detected, no activity
		Green Flashing	Link active
		Off	No link detected

## Power Outages

VAB-1 has a built-in battery with standby time of up to 24 hours, depending on environmental factors and usage.

**Be aware:** During a power outage you'll need a standard corded phone that doesn't require external power to function to make all calls, including 911.

### On-site Wiring



Interconnecting the VAB-1 to existing on-site telephone wiring is not necessary, but is possible.

However, this type of configuration should be done by a professional technician who has expertise in telephony wiring. Use with existing wiring requires the physical disconnection from other services, including the landline coming into your building at the Network Interface. Improper installation may result in phone equipment damage or even a fire.

To access the battery and SIM card, insert two quarters into the two slots on the bottom of the device and turn counterclockwise:

