

PRYMEBLU® MOBILE ADAPTER V2 GUIDE For Compatible Wireless Audio Accessories

The PRYMEBLU Mobile Adapter V2 allows you to use a compatible wireless headset or other audio accessory with your mobile or base station two-way radio.



Wireless Adapter
Model No.: BT-Mxx-V2 Series
Made in Taiwan

This manual applies to all PRYMEBLU BT-Mxx-V2 Series Adapters
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Federal Communication Commission Interference Statement

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 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.
- FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting.

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FIG. 2 Typical Rear Connection Type Radio

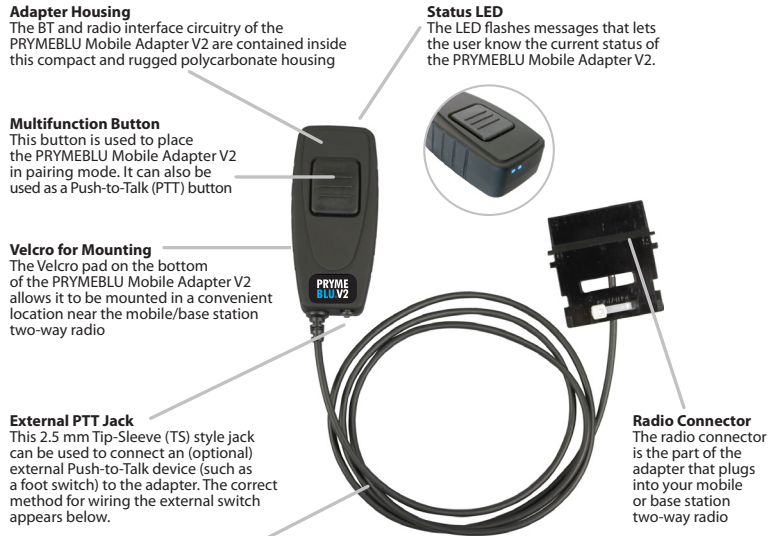
CONNECTING THE MOBILE ADAPTER TO A TWO-WAY RADIO

- * When connecting the PRYMEBLU Mobile Adapter to a two-way mobile radio, first make sure that the two-way radio is powered off.
- * Insert the radio connector of the Mobile Adapter into the corresponding jack on the two-way radio. Push the connector into the jack until it is firmly seated.
- NOTE: Most models of PRYMEBLU Mobile Adapter connect to the accessory plug on the rear of the two-way radio. However, some models may connect to the radio's front microphone jack and/or rear external speaker jack.
- * On some models you may need to tighten one or more retaining screws on the adapter after plugging the Mobile Adapter's connector into the two-way radio.
- * If you will use the PRYMEBLU Mobile Adapter with a wired Push-to-Talk (such as a footswitch) plug the connector for the PTT into the External PTT Jack of the adapter and mount the switch.



FIG. 3 Typical Front and Rear Connection Radio

Controls and Connections



Adapter Housing
The BT and radio interface circuitry of the PRYMEBLU Mobile Adapter V2 are contained inside this compact and rugged polycarbonate housing

Status LED
The LED flashes messages that lets the user know the current status of the PRYMEBLU Mobile Adapter V2.

Multifunction Button
This button is used to place the PRYMEBLU Mobile Adapter V2 in pairing mode. It can also be used as a Push-to-Talk (PTT) button

Velcro for Mounting
The Velcro pad on the bottom of the PRYMEBLU Mobile Adapter V2 allows it to be mounted in a convenient location near the mobile/base station two-way radio

External PTT Jack
This 2.5 mm Tip-Sleeve (TS) style jack can be used to connect an (optional) external Push-to-Talk device (such as a foot switch) to the adapter. The correct method for wiring the external switch appears below.

Radio Connector
The radio connector is the part of the adapter that plugs into your mobile or base station two-way radio

Connection Cable
The PRYMEBLU BTM-Adapter V2 uses shielded cable to connect the adapter to the mobile/base station radio

NOTE: BT-M83-V2 Model shown.
Other models may vary slightly in appearance.

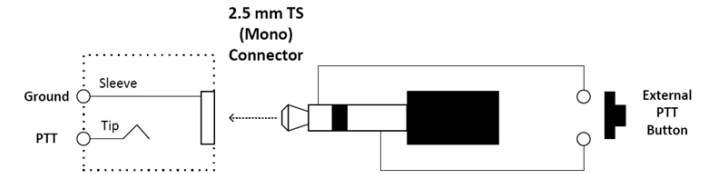


FIG. 1 Connecting a remote PTT

Reprogramming the Radio

- * In order for the PRYMEBLU Mobile Adapter to work properly, some two-way mobile radios may require reprogramming using the radio's manufacturer's Computer Programming Software and a programming cable. This may be necessary to ensure that all of the needed signals are available on the radio's accessory port or to set audio levels to match the headset.
- * If you believe that your radio requires reprogramming (or are unsure) you should contact your two-way radio dealer or PRYME's technical support.

Mounting the Adapter

Velcro is supplied with the PRYMEBLU Mobile Adapter which allows you to secure the adapter to nearly any location near the mobile two-way radio. For convenience, you should mount the adapter somewhere that the user will be able to see the status LED and to reach the Multifunction Button for ease of use. Mounting the adapter as high as possible and making sure it is not blocked by metal or electrical devices will ensure best possible wireless range.

PAIRING WITH A WIRELESS AUDIO ACCESSORY

- * Turn off the radio that the PRYMEBLU Mobile Adapter is connected to. Wait at least three seconds.
- * Turn the radio on while holding down the Multifunction button on the PRYMEBLU Mobile Adapter.
- * Continue to hold the Multifunction button down until the status LED on the PRYMEBLU Mobile Adapter begins to flash two times per second. This can take approximately three to five seconds.
- * Release the Multifunction button. The PRYMEBLU Mobile Adapter is now in audio accessory pairing mode.
- * Activate the pairing mode on your compatible wireless audio accessory using the process provided by that device's manufacturer.
- * Keep the PRYMEBLU Mobile Adapter and wireless audio accessory close to each other and wait a few seconds.
- * Once the audio accessory and adapter are paired with each other, the status LED on the adapter will show a long blue flash and then begin to flash approximately once every second. Once successfully paired, you will be able to operate your two-way radio using your compatible wireless accessory.



FIG. 4 - Wireless Communication System

PAIRING WITH A WIRELESS PTT BUTTON

The PRYMEBLU Mobile Adapter is compatible with a few different wireless PTT buttons:

- PRYMEBLU BT-PTT2, which uses conventional BT.
- PRYMEBLU BT-PTT-Z or PRYMEBLU BT-PTT-ZU, which use a special form of BT called BT Low Energy (BLE).

To pair the adapter with a PTT button, follow these steps:

- * Power off any wireless headset or audio accessory that has previously been paired to the PRYMEBLU Mobile Adapter.
- * Power off the BT PTT button that you intend to use with the PRYMEBLU Mobile Adapter.
- * Power off the radio that the PRYMEBLU Mobile Adapter is connected to. Wait at least three seconds.
- * Turn the radio on while holding down the Multifunction button on the PRYMEBLU Mobile Adapter.
- * Continue to hold the Multifunction button down until the status LED begins to flash two times per second. Note that the LED on the adapter may show several single flashes before it shows double flashes. This can take approximately three to five seconds.
- * Release the Multifunction button. The PRYMEBLU Mobile Adapter is now in audio accessory pairing mode. To enter PTT pairing mode, proceed to the next step.
- * Press and release the Multifunction button again. The LED on the PRYMEBLU Mobile Adapter will now change to 3 flashes per second. The PRYMEBLU Mobile Adapter is now in Push-to-Talk pairing mode.
- * IF YOU ARE USING A CONVENTIONAL PTT BUTTON (BT-PTT2): Place the button into pairing mode by pressing down the PTT button and pressing the power switch. Continue to hold the button down until the LED on the BT-PTT2 flashes two times per second.
- * IF YOU ARE USING A BT LOW ENERGY BUTTON (BT-PTT-Z, BT-PTT-ZU): Power the button on using the slide switch and then press and release the PTT button two to three times.
- * Keep the PRYMEBLU Mobile Adapter and wireless PTT button close to each other and wait a few seconds.
- * Once the devices are paired with each other, the LED on the PRYMEBLU Mobile Adapter will revert to one flash every second.
- * You can now power back on the headset or audio accessory that you previously paired with the PRYMEBLU Mobile Adapter and let it reconnect.
- * Once the audio accessory has reconnected, pressing the PTT on the wireless button will cause the radio to transmit.

Reconnecting to a Previously Paired Headset or PTT Button

Once the PRYMEBLU Mobile Adapter has been successfully paired to a wireless audio accessory and/or PTT button, it will remember that connection. You only need to complete the pairing process once for each device.

If the wireless accessory is powered off or loses connection, the adapter will attempt to re-establish the link if both are turned on and in within range of each other. Re-establishing this connection can take 10-60 seconds.

CHOOSING A WIRELESS HEADSET FOR USE WITH THE ADAPTER

The PRYMEBLU Mobile Adapter should work well with most cellular style wireless headsets.

To be compatible with the adapter, we recommend that the headset should meet all the following specifications:

- * BT version 3.0 or higher
 - * Supports BT profiles HSP (Headset) and HFP (Hands Free)
 - * Has a battery talk time rating greater than the amount of time you intend to use it between charges. (For example, 9 or 10 hours if you intend to use the headset for an 8-hour period.)
- Note that the talk-time specification is different than the battery standby time.

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TROUBLESHOOTING

My wireless Headset or PRYMEBLU Push-to-Talk will not pair with the PRYMEBLU Adapter.

Try re-pairing the PRYMEBLU Mobile Adapter and wireless accessory following the instructions in this guide. Make sure that the PRYMEBLU Mobile Adapter and accessory being paired are within one meter of each other. If possible, isolate them from other wireless devices such as phones, laptops, etc. that might interfere with the pairing process.

My wireless Headset or PRYMEBLU Push-to-Talk worked with the PRYMEBLU Adapter previously, but is not working now.

Make sure that the PRYMEBLU Mobile Adapter is properly connected to the two-way radio and that the adapter has power supplied to it. Ensure that your wireless audio accessory has a fully charged battery and is turned on. If the devices will still not work, re-pair the PRYMEBLU Mobile Adapter to the wireless accessories.

I can transmit using the Multifunction Button on the PRYMEBLU Mobile Adapter and transmit audio is picked up from my wireless Headset; however the PTT button on my PRYMEBLU

Push-to-Talk does not key the radio. Your PRYMEBLU Wireless Push-to-Talk is not properly paired with the PRYMEBLU Mobile Adapter or has come un-paired. Try pairing the adapter and Wireless Push-to-Talk again.

I can transmit using the Multifunction Button on the PRYMEBLU Mobile Adapter or the PTT button on the PRYMEBLU Push-to-Talk but no microphone audio is being heard.

Your wireless Headset is not properly paired with the PRYMEBLU Mobile Adapter or has come un-paired. Try pairing the adapter and headset again.

I have my PRYMEBLU Mobile Adapter plugged into my Mobile Two-Way radio but when I turn the radio on, the LED on the adapter does not light up.

Many radios have an internal micro fuse which protects the radio from being damaged if an accessory draws too much power from the accessory connector. This fuse might blow if the PRYMEBLU Mobile Adapter is plugged into or unplugged from the two-way radio while the radio is powered on. You may need to contact your radio dealer to have this fuse replaced.

I need more range from my wireless headset. Try to mount the BT-Mxx-V2 as high as possible and clear of any obstructions.

STATUS LED MESSAGES

The meanings of the various status LED messages shown by the PRYMEBLU Mobile Adapter are shown on the following table:

LED INDICATION	MEANING
One flash every second	Normal operation
Two flashes per second	Headset pairing mode active
Three flashes per second	PTT pairing mode active
One long flash for three seconds	Successfully paired or re-paired
No indication	Radio is turned off or no power is being supplied to the adapter

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TRANSMIT AND RECEIVE OPERATION

Push-to-Talk can be activated by any of the following methods:

- * Pressing and holding the Multifunction button of the PRYMEBLU Mobile Adapter
- * Pressing and holding the PTT button on the PRYMEBLU Wireless PTT (if a BT-PTT is paired to the Mobile Adapter).
- * Pressing and holding the button on the external Push-to-Talk/Footswitch (if one is plugged into the Mobile Adapter) or pressing and holding the PTT switch on any specially designed PRYMEBLU headset (such as the BT-LMIC, wireless-Earmuff or wirelessThroat Mic.) Please note the function key on a normal cell phone type headset DOES NOT activate the radio PTT.

When transmitting, the operator's voice is picked-up by:

- * The microphone in the wireless Headset.

NOTE: If you are using a model of PRYMEBLU Mobile Adapter that connects to the rear accessory jack on the mobile radio, then you can leave the radio's hand microphone attached and use it as a back-up if you wish. Pressing and holding the PTT button on the hand microphone will cause the radio to transmit and the operator's voice will be picked up by the hand microphone.

Receive audio is handled differently depending on whether the model of PRYMEBLU Mobile Adapter you are using connects to the radio's rear accessory jack or front microphone jack/rear speaker jack.

If the adapter you are using connects to the radio's rear accessory jack:

- * Receive audio can be heard over both the radio's internal speaker or over the earphone in the wireless Headset.
- * The volume control knob on the radio controls the internal speaker volume only. If you do not wish to hear received signals over the internal speaker, simply set the radio's volume to zero.
- * The volume of the earphone can be controlled using the Volume Up/Down buttons on the wireless Headset.

If the adapter you are using connects to the radio's front microphone jack and rear speaker jack:

- * Receive audio can be heard only on the earphone in the wireless Headset. The internal speaker in the radio will be disabled.
- * Receive audio volume should be set primarily using the volume control knob on the radio. You can fine tune the volume if needed using the Volume Up/Down keys on the Wireless Headset.

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SUPPORT AND WARRANTY

PRYME Radio Products warrants this product against defects in materials or workmanship for a period of one year from the date of retail purchase. PRYME will repair or replace a defective unit, at our option, without charge for parts or labor. The limited warranty is extended only to the original purchaser and is valid only to consumers in the United States and Canada. It does not cover damage or failure caused by or attributable to Acts of God, abuse, misuse, improper or abnormal usage, faulty installation, improper maintenance, lightning, or other incidences of excessive voltage, or any tampering or repairs by other than a PRYME authorized repair facility. It does not cover replacement of consumable parts, transportation costs, or damage in transit.

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To return your product for service or repair, please complete an online RMA form at www.pryme.com/catalog/rma.html and follow the instructions provided. PLEASE DO NOT RETURN ANY PRODUCT WITHOUT AN RMA NUMBER.

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DISCLAIMER: The wireless link used in this product is an open standard, unsecured technology. As such, it is not recommended for first-responder or other mission critical users.

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