

# PRYME®

## PRYMEBLU® BT-5xx-V2 USER'S GUIDE ADVANCED BT ADAPTER for portable radios with MULTIPIN connectors

The PRYMEBLU advanced adapter allows you to use a compatible wireless headset or other audio accessory with your portable two-way radio.



**BT-PTT-Z (mini)**  
(Optional Push-To-Talk button sold separately.)

**Advanced BT Adapter**  
**Applicable Models: All multipin BT-5xx-V2 models**  
**Made in Taiwan**  
**FCC ID: N2E-xxxxx**

PRYME® and PRYMEBLU® are trademarks owned by PRYME Radio Products, Brea CA. All other product or service names are the property of their respective owners.  
© 2021 PRYME Radio Products, Brea CA. All Rights Reserved

### 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.

### RF Exposure Warning!

Please keep product 20cm away from your body or bystander during the radio operation. The typical handheld two-way radios were certified under mobile usage condition (i.e. keep 20cm away from the user body) and use of such radio closer than 20cm may exceed the US RF exposure limit and shall be avoided.

911 Mariner St., Brea, CA 92821  
PH: 714.257.0300 FAX: 714.257.0600  
TOLL FREE: 800.666.2654  
WWW.PRYME.COM

Version 2.00 FEBRUARY 2021

# PRYME®

## QUICK START

1. Connect the PRYMEBLU Radio Adapter to a compatible two-way radio.
2. Pair the PRYMEBLU Radio Adapter with a compatible wireless audio accessory.
3. Pair a PRYMEBLU Wireless Push-to-Talk button with the PRYMEBLU Advanced Adapter (optional).
4. Connect a wired Push-to-Talk button or wired audio accessory to the Quick-Disconnect accessory port on the PRYMEBLU Radio Adapter (optional).
5. Test and use.

## Connecting the Adapter to Radio

To connect your PRYMEBLU Advanced Adapter to a two-way radio, follow these steps:

- \* Always turn off your two-way radio before connecting the PRYMEBLU Advanced Adapter.
- \* Plug the PRYMEBLU Advanced Adapter into the audio accessory jack of your two-way radio.
- \* On some models of two-way radio, you may need to tighten a retaining screw or fasten a latch in order to ensure that the PRYMEBLU Advanced Adapter remains securely attached to the radio



## Pairing with a Wireless Audio Accessory

- \* Turn off the radio that the PRYMEBLU Advanced Adapter is connected to. Wait at least three seconds.
- \* Turn the radio on while holding down the Talk button on the PRYMEBLU Advanced Adapter.
- \* Continue to hold the Talk button down until the status LED begins to flash two times per second. (You may need to angle your finger off to the side of the Talk button to see the LED.) This can take approximately three to five seconds.
- \* Release the Talk button. The PRYMEBLU Advanced 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 Advanced 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.



## Controls and Connection

### Multi-Function Talk Switch / Status LED

This button is used to place the PRYMEBLU Advanced Adapter into pairing mode. The LED flashes messages that let the user know the status of the PRYMEBLU Advanced Adapter. This switch can also be used to activate the Push-To-Talk function of the two-way radio.

**Quick Disconnect Accessory Port**  
Allows the connection of a PRYME QD series wired accessory such as a remote Push-to-Talk button, or an audio accessory such as an earphone.  
**NOTE: Quick Disconnect Port is not available on all models.**

### Radio Connector

This port connects the PRYMEBLU Advanced Adapter to a compatible two-way radio.

**NOTE: BT-583-V2 model shown.**  
Other models may vary slightly in appearance.



## Pairing with a Wireless PTT Button

The PRYMEBLU Advanced 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 Advanced Adapter.
- \* Power off the BT PTT button that you intend to use with the PRYMEBLU Advanced Adapter.
- \* Power off the radio that the PRYMEBLU Advanced Adapter is connected to. Wait at least three seconds.
- \* Turn the radio on while holding down the Talk button on the PRYMEBLU Advanced Adapter.
- \* Continue to hold the Talk button down until the status LED begins to flash two times per second. (You may need to angle your finger off to the side of the Talk button to see the LED.) Note that the LED on the adapter may show several single flashes before shows double flashes. This can take approximately three to five seconds.
- \* Release the Talk button. The PRYMEBLU Advanced Adapter is now in audio accessory pairing mode. To enter PTT pairing mode, proceed to the next step.
- \* Press and release the Talk button again. The LED on the PRYMEBLU Advanced Adapter will now change to three flashes per second. The PRYMEBLU Advanced 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 Advanced 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 Advanced 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 Advanced 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 Advanced 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 for each device once.

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

## Connecting a Wired Audio Accessory to the PRYMEBLU Adapter

The Quick-Disconnect port on the PRYMEBLU Advanced Adapter allows the connection of a compatible wired PRYME QD series accessory. This includes compatible Push-to-Talk buttons, earphones, surveillance kits, remote microphones, and other accessories.

- \* To connect a wired accessory, first turn off the two-way radio that the PRYMEBLU Advanced Adapter is connected to.
- \* Lift up and remove the protective cap covering the Quick-Disconnect port on the PRYMEBLU Advanced Adapter.
- \* Align the Quick-Disconnect connector of the wired accessory with the Quick-Disconnect port on the PRYMEBLU Advanced Adapter. Then, push the two connectors together gently until they click into place. NOTE: the male and female connectors are keyed so they must be properly aligned before the two halves can be pushed together.
- \* To remove a wired accessory that has been installed, gently pull up on the outer barrel of the Quick-Disconnect connector until the accessory is released. Then pull the accessory upwards to remove it from the adapter.

**NOTE:** The Quick Disconnect Port is not available on all models.



## AUDIO ACCESSORY CONFIGURATIONS

All of the following are valid ways to use the PRYMEBLU Advanced Adapter:

- A PRYMEBLU wireless audio accessory with a built-in PTT button (BTH-600, BTH-550, or BTH-300)
- A PRYMEBLU wireless audio accessory (BTH-600, BTH-550, or BTH-300) with a PRYMEBLU wireless PTT button (PRYMEBLU BT-PTT2, BT-PTT-Z, or BT-PTT-ZU)
- A PRYMEBLU wireless audio accessory (BTH-600, BTH-550, or BTH-300) with a wired PTT button\* (PRYME PTT-5)
- A wireless headset with no PTT button
- A wireless headset with a PRYMEBLU wireless PTT button (PRYMEBLU BT-PTT2, BT-PTT-Z, or BT-PTT-ZU)
- A wireless headset with a wired PTT button\* (PRYME PTT-5)
- A wired PRYME Quick Disconnect audio accessory\* (with built in wired PTT button)
- A wired PRYME Quick Disconnect audio accessory\* with a PRYMEBLU wireless PTT button (PRYMEBLU BT-PTT2, BT-PTT-Z, or BT-PTT-ZU)

\* Useable only on adapter models which have a built-in QuickDisconnect accessory port.

5

## STATUS LED MESSAGES

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

LED INDICATION	MEANING
One flash per second	Normal operation
Two flashes per second	Adapter is in pairing mode for BT audio accessories
Three flashes per second	Adapter is in pairing mode for PTT devices
One long flash	BT accessory connected or reconnected successfully
No indication	Radio is powered off



## TROUBLESHOOTING

**My wireless audio accessory or PTT button will not pair with the PRYMEBLU Adapter.**

If you are correctly following the pairing processes shown on page 3 and 4 of this manual and cannot get the devices to connect, the most likely problem is that another nearby wireless device is interfering with the pairing process. Please disable BT in all nearby devices other than the adapter and accessory that you are attempting to pair. This includes phones, tablets, wireless headsets, keyboards, printers, and other consumer devices. If you cannot disable (or locate) the wireless device that might be interfering, then we recommend taking the radio, adapter, and accessory to a different area at least 50 feet away from the original location and trying again.

**My radio shows "Keyloader" on the LCD when I press the Talk button of the PRYMEBLU Adapter.**

When you press the Talk key with no wireless headset paired, the radio believes a keyloader is attached to the radio. Disable the keyloader function in the radio's programming software or pair a wireless accessory with the adapter.

**Pressing the Talk button on the PRYMEBLU Advanced Adapter activates the "emergency" or "man down" feature of my two-way radio**

This can happen on some radios which are programmed to use an external wired speaker microphone that has a built-in emergency button. To prevent this from happening, you should reprogram the radio, so the "External Emergency Button" feature is disabled. Doing so will not affect the operation of an emergency button that is built into the radio itself.

**When the PRYMEBLU Advanced Adapter is connected to my radio but no audio accessory is connected, I cannot send/receive radio calls.**

On some radios, if no wired or wireless audio accessory is connected to the PRYMEBLU Advanced Adapter, then the radio's audio may be muted, causing you to miss radio calls. This is a function of the radio itself rather than of the PRYMEBLU Advanced Adapter. In the event that you cannot hear radio calls when no accessory is connected to the adapter, you should detach the PRYMEBLU Advanced Adapter during times when you do not wish to use a compatible wired or wireless audio accessory.

7

## USING THE ADAPTER

The PRYMEBLU Advanced Radio Adapter will automatically route radio calls based on the following priority:

### Transmit and Receive Operation

- \* If a wired audio accessory is connected to the Quick-Disconnect Port of the PRYMEBLU Advanced Radio Adapter, radio calls (transmit and receive) will be routed to this accessory.
- \* If no wired accessory is connected, calls (transmit and receive) will be routed to a wireless accessory, if one is paired with the PRYMEBLU Advanced Radio Adapter.

When a new accessory is connected, paired, disconnected, or powered off, it may take several seconds for the audio from received radio calls to be routed appropriately.

**IMPORTANT NOTE:** On some radios, if no wired or wireless audio accessory is connected to the PRYMEBLU Advanced Adapter, then the radio's receive audio may be muted, causing you to miss radio calls. However, on most radios, when no audio accessory is connected, the radio's speaker will be unmuted so that calls can be heard. This feature varies from radio model to radio model and is a function of the radio itself rather than of the PRYMEBLU Advanced Adapter.

In the event that you cannot hear radio calls when no accessory is connected to the adapter, you should detach the PRYMEBLU Advanced Adapter during times when you do not wish to use a compatible wired or wireless audio accessory.

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

- \* Pressing and holding the Talk button of the PRYMEBLU Radio Adapter
- \* Using the PTT button on a wired PRYME Quick-Disconnect accessory (if one is connected to the PRYMEBLU Advanced Radio Adapter)
- \* Wirelessly using an optional wireless PRYMEBLU wireless Push-to-Talk button

### CHOOSING A WIRELESS HEADSET FOR USE WITH THE ADAPTER

The PRYMEBLU Advanced 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 in excess of 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.

6

## 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.

Repair or replacement under the terms of this warranty does not extend the terms of this warranty. This warranty can only be modified by an officer of PRYME Radio Products, and then, only in writing. Should this product prove defective in workmanship or material, the consumer's sole remedies shall be such repair or replacement as provided by the terms of this warranty. Under no circumstances shall PRYME Radio Products be liable for any loss or damage, direct, consequential, or incidental, arising out of the use of or inability to use this product. Some states do not allow limitations on how long an implied warranty lasts or the exclusions or limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights. You may also have other rights, which may vary, from state to state.

For support or warranty service on your PRYME product, contact us at 1-800-666-2654 or visit us on the web at [www.PRYME.com](http://www.PRYME.com).

### COPYRIGHT AND TRADEMARK INFO

© 2021 PRYME Radio Products, Brea CA. All rights reserved. PRYME® and PRYMEBLU® are trademarks owned by PRYME Radio Products. All other product or service names are the property of their respective owners.

**DISCLAIMER:** The wireless link used by PRYMEBLU products is an open standard, unsecured technology. Additionally, this product can mute the portable radios internal speaker and microphone if used with no wireless or wired audio accessory connected. This product is not recommended for first-responder or other mission critical users.

8