

MOTOROLA

HS830
Wireless Headset Module
with *Bluetooth*[®] Technology

START HERE >

Welcome

Welcome to the world of Motorola digital wireless communications! We are pleased that you have chosen the Motorola HS830 Wireless Module with Bluetooth® technology.

The Motorola HS830 Wireless Module with *Bluetooth*® technology defies traditional expectations. This latest product by Motorola makes connectivity invisible and reliable. It is astonishingly advanced, yet intuitive and simple to use. And although you are no longer connected by wires, you are connected to a growing group of leading-edge technology pioneers who are embracing the global *Bluetooth* movement.

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Safety and General Information

IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION. READ THIS INFORMATION BEFORE USING YOUR DEVICE.

Users are not permitted to make changes or modify the device in any way. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. See 47 CFR Sec. 15.21.

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. See 47 CFR Sec. 15.19(3).

Electromagnetic Interference/Compatibility

Note: Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed, or otherwise configured for electromagnetic compatibility.

Facilities

To avoid electromagnetic interference and/or compatibility conflicts, turn off your device in any facility where posted

notices instruct you to do so. Hospitals or health care facilities may be using equipment that is sensitive to external RF energy.

Aircraft

When instructed to do so, turn off your device when on board an aircraft. Any use of a device must be in accordance with applicable regulations per airline crew instructions.

Medical Devices

Hearing Aids

Some devices may interfere with some hearing aids. In the event of such interference, you may want to consult with your hearing aid manufacturer to discuss alternatives.

Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

Industry Canada Notice to Users

Operation is subject to the following two conditions: (1) This device may not cause interference and (2) This device must accept any interference, including interference that may cause undesired operation of the device Ref IC RSS 210 Sec. 5.11. The term "IC:" before the certification/registration number only signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment. See Ref IC Self-Marking 6(f) and RSP-100 Sec. 4.

FCC Notice to Users

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 the receiver.
- Connect the equipment to 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.

Introduction

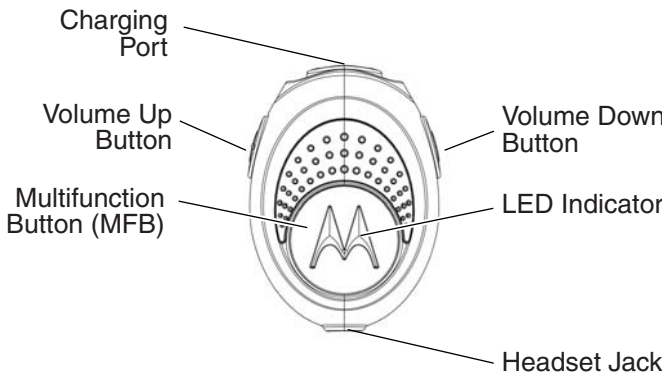
What Is Bluetooth Wireless Technology?

Bluetooth is a wireless way to connect and transfer information between mobile phones, accessories, computers, and other communication devices. It's more than simple handsfree convenience. By eliminating the cable, sharing becomes easier, work becomes more efficient and multi-tasking takes on a new dimension. And it's an open standard, which means that this product will work seamlessly with any Bluetooth enabled phone.

Note: The use of wireless devices and their accessories may be prohibited or restricted in certain areas. Always obey the laws and regulations on the use of these products.

For more information on this or Motorola's other innovative Bluetooth products, visit www.motorola.com/bluetooth.

Wireless Module Features



1 Multifunction Button (MFB)—Controls multiple headset functions.

2 Charging Port—Accepts the plug for the battery charger.

3 Headset Jack—Accepts the plug for the earbud and microphone..

4 LED Indicator—Provides a visual cue about wireless module status.

5 Volume Up Button—Adjusts speaker volume up.

6 Volume Down Button—Adjusts speaker volume down.

Using Your Wireless Module

Charging the Battery

When to Charge

First-Time Use—Before you can use your wireless module, charge its self-contained battery for two hours.

Recharging—When you hear five rapid high tones, repeated at 20-second intervals, the wireless module battery needs recharging.

Over time, batteries gradually wear down and require longer charging times. This is normal. Your battery will have less standby time the more you talk on the phone with your wireless module.



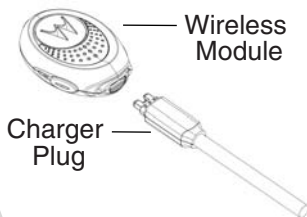
The rechargeable batteries that power your wireless module must be disposed of properly and may need to be recycled. Contact your local recycling center for proper disposal methods.

Warning: Never dispose of batteries in a fire because they may explode.

How to Charge

Action

- 1 Remove the wireless module from the clothing clip. Plug the Motorola charger into the module, with the charger's release tab facing down and the module facing up.



- 2 Plug the other end of the charger into an electrical outlet.

During charging, the LED indicator turns on and remains on until charging completes. The wireless module will not work while charging. The battery fully charges in approximately two hours.

- 3 When charging completes (indicator off), remove the charger from the electrical outlet, press the release tab, and detach the charger from the module.
- 4 To turn on your wireless module, press and hold the MFB for 3 seconds until the LED flashes rapidly. To turn off your wireless module, press and hold the MFB for 3 seconds until the LED flashes rapidly and turns off.

Note: You can also use a Motorola Original Vehicle Power Adapter to charge the wireless module battery while in your vehicle.

A fully charged module battery provides approximately:

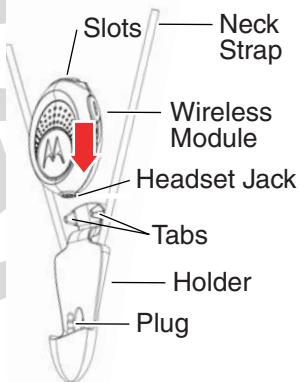
- 5 hours of talk time
- 100 hours of standby time

Wearing Your Wireless Module

Placing the Wireless Module in the Neck Strap

Action

- 1** Insert the 2.5mm plug from the neck strap into the headset jack on the bottom of the wireless module.
- 2** Push the wireless module back into the neck strap holder.
- 3** Insert the two tabs on the neck strap holder into the slots on the top of the wireless module.
- 4** Place the neck strap around your neck and insert the earbud in your ear.



Pairing Your Wireless Module and Phone

Note: You must pair your wireless module and phone before you can make a call.

“Pairing” creates a link between devices with *Bluetooth* wireless technology, and allows the phone to remember the wireless module’s unique electronic serial number. When your wireless module and phone are paired, your wireless module automatically connects to your phone each time you turn it on.

Pairing

With the wireless module and phone close together:

Action

- 1 With the wireless module off, press and hold the MFB until the LED remains on (about 5 seconds).

 - 2 Perform a *device discovery* from the phone.
For details on device discovery for your phone, refer to the phone’s user’s guide.

When the scan is complete, the phone displays the devices found.

 - 3 Select Motorola HS830 from the discovered devices list and confirm following the on screen prompts.
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Action

- 4 When prompted by the phone, enter the passkey (0000) and confirm to pair the wireless module with the phone.

The device ID is now stored in the phone's memory.

Pairing is successful when the wireless module indicator flashes rapidly.

Pairing to Additional Devices

Your wireless module can store pairing information for up to eight different devices with *Bluetooth* wireless technology. Devices are stored in a "Paired Device List" in memory in the order entered. When you try to pair to more than eight devices, the wireless module removes the oldest paired device from the list.

Any of the eight paired devices can initiate a connection to the wireless module.

The wireless module will automatically initiate a connection (upon power-up) only with the **last** device it was **connected to**. If you want to connect the wireless module to another device in the paired device list, you must initiate the connection from that device. If any of the eight devices initiates a connection to the wireless module afterwards, that device then becomes the "last connected" device.

Adjusting the Volume

To increase wireless module volume, press the volume up button repeatedly until you reach the desired volume level.

To decrease wireless module volume, press the volume down button repeatedly until you reach the desired volume level.

Making and Receiving Calls

Note: The use of wireless devices and their accessories may be prohibited or restricted in certain areas. Always obey the laws and regulations on the use of these products.

Your wireless module supports both Handsfree and Headset Profiles. Accessing call functions depends on which profile your phone supports.

Note: Some phones do not support all features listed. See your phone's user's guide.

You can activate call functions as follows:

Device Status			
Function	Phone	Headset	Action
Enter Pairing (Configuration) Mode	On	Off	Press and hold MFB until LED remains on. Wireless module can be discovered by another Bluetooth device.
Make a Voice Dial Call	On in idle	On	Short press MFB, say name, phone dials call
Redial a Number	On—voice dialing turned on or off	On—(In Idle)	Long press MFB
End a Call	On—in call	On	Short press MFB

Device Status

Function	Phone	Headset	Action
Put Active Call on Hold	On—in call	On	Long press MFB
Resume Call on Hold	On—active call on hold	On	Long press MFB
Receive a Call	On—phone rings	On	Short press MFB (call is answered)
Reject a Call	On—phone rings	On	Long press MFB
Answer 2nd Incoming call	On—in call, 2nd call coming in	On	Long press MFB, places 1st call on hold, answers incoming call
Toggle between Two Active Calls	On—in call, 2nd call on hold	On	Long press MFB
Transfer Call From Phone to wireless module	On—in call	On	Short press MFB, (call transferred to wireless module)

Note: If the link abnormally disconnects (for example, out of range) the wireless module tries to reestablish the link.

Using Your Module's Indicator LED

With charger plugged in:

Indicator	Status
ON	charging in progress
OFF	charging complete

With no charger plugged in:

Indicator	Status
OFF	power off
ON (steady)	pairing mode
10 rapid flashes	pairing successful
Flashes at a 3-second interval (0.1 seconds ON 2.9 seconds OFF)	standby (not on a call)
Pulses at an 8-second interval (2.0 seconds ON, 6.0 seconds OFF)	connected (on a call)

Note: When the module is paired to the phone and there is no activity for 5 minutes, the blue flashing LED turns off. Any button press on the module, resets the timer, and the flashing resumes. If you press the up and down volume buttons at the same time during a call, the pulsing LED turns off for the duration of that call.

Audio Tones

Tone	Wireless Module Status
One high tone when pressing volume button	Volume maximum or minimum reached
Five rapid high tones, repeated every 20 seconds	Low battery
No audio indications; deteriorating audio quality	Out of range
Series of 4 tones, low to high	Call active
Ring tone	Incoming call
One high tone	Pairing confirmation
One low tone	Initiate voice activation
One high and one low tone	Voice tag not recognized
One high tone	End call
Series of 4 tones, high to low	Audio link closed (Headset mode), call ended (handsfree mode)

Tone	Wireless Module Status
Fast high/low tone every 5 seconds (max. & min. volume confirm beep)	no network/service
No tone	power ON/OFF

Note: The wireless module sounds an audible alert so that you do not miss an incoming call even if your phone is in a bag or briefcase. The audible alert can be turned on or off by pressing and holding both volume buttons for three seconds. See table below for operation.

Note: Disabling the audible alert does not affect the phone or earbud operation. Alerts will still be heard in the earbud speaker if the phone is set to other than silent mode.

Action	Audible Tones	Result
1 Press and hold volume up and volume down buttons for 3 seconds	High tone - Low tone	Alert disabled
2 Press and hold volume up and volume down buttons for 3 seconds	Low tone - High tone	Alert enabled

Other Wireless Module Adapter Applications

The wireless module can also be used as a handsfree device on a helmet. The SYN0997 Universal Helmet Adapter, available at www.motorola.com/bluetooth, mounts to almost any helmet - motorcycle/scooter, skiing, snowboarding, etc. The wireless module slides into the helmet adapter creating a handsfree accessory for your helmet. Visit Motorola online for more details.

