



GST Bluetooth Headset - GL2BHS83

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1. Product Description

GL2BHS83 is a wireless portable headset which enables users to answer incoming calls wirelessly from Bluetooth devices, which support Audio Gateway role, Headset Profile or Hands Free Profile, such as GST Bluetooth Audio Gateway (GL2BAG52) and Bluetooth mobile phones in proximity.

2. Product General Specifications

2.1 General Specifications

Product Name	Bluetooth Headset GL2BHS83
Product Category	End-user portable product
Bluetooth specification	Bluetooth 1.1 compliant
Support Profile	GAP, SPP, Headset (Headset role only)
Power Class	Class 2
Support packet types	HV1/HV2/HV3
Support hopping mode	USA/EU (79 channel)
Interoperability	All devices that support the Bluetooth Headset profile or Audio Gateway role
Sensitivity	<-80dBm@0.1%BER
Output Power	-6 ~ +4dBm
Frequency range	2400-2483.5MHz
Size	57.5mmx33.8mmx19.8mm (without clip) 57.5mmx33.8mmx22.5mm (with clip)
Total Weight	To be confirmed
Base color	White
Talk Time	4.3hrs
Standby time	200hrs
Packaging	To be confirmed
Rechargeable battery	160mA 2.4V
Power Adapter	DC 5V adapter

2.2 Function button/ indicators

Symbol	Functions
TALK button	Pairing; Answer a phone call forwarded from Bluetooth Audio Gateway device; Power on/off; Forward calls to phone
Volume Up button (+)	Adjust volume up
Volume Down button (-)	Adjust volume down
Green LED	Flashes 5 times when headset is turned on; Flashes once every 3 seconds during Power ON mode and Pairing-Standby mode; Flashes twice every 3 seconds during Incoming-call Mode; Flash 4 times every 3 seconds during Connected mode; LED off during power off mode.
Red LED	Flashes when battery is low, battery is charging; Solid red light when charging is completed; Flashes 5 times when headset is turned off.
Earphone	
Microphone	
Earphone socket	
Charger socket	
Strap hole	
Clip	

2.3 User Interface

Source: CSR BlueCore2 – Headset Extra User Guide

The profile that is in use depends on the profile the Bluetooth device supports or is currently operating. During each connection, there is only one profile in use. Both profiles can not exist at the same time in a connection. Please refer to the user's manual of the Bluetooth device.

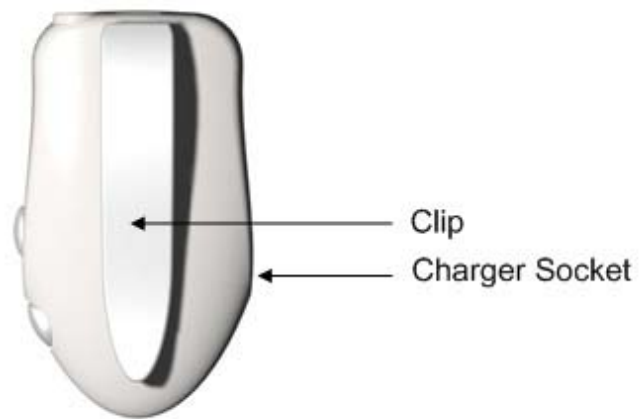
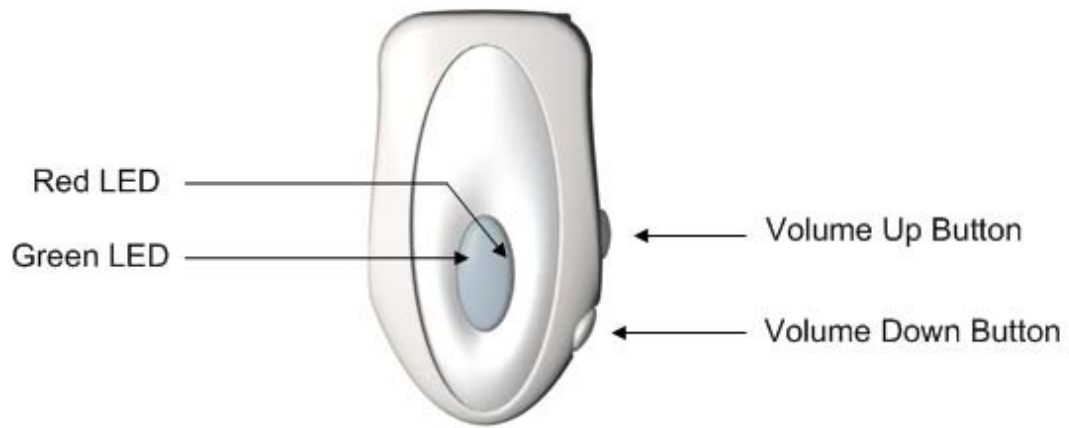
Headset Profile:

	Talk		Volume Up or Down	
	Short Press	Long Press	Short Press	Long Press
Off	-	Power ON	-	-
Waiting for a call	-	Power OFF	-	-
Start Voice Dial	Cancel Voice Dial	Power OFF	-	-
Ringing	Answer	Power OFF	-	-
Call Active	End call	Power OFF	Adjust volume by one step	Mute

Hands Free Profile:

	Talk		Volume Up or Down	
	Short Press	Long Press	Short Press	Long Press
Power Off	-	Power ON	-	-
Waiting for a call	Initiate Voice Dial	Power OFF	Adjust volume by one step	Last Number Redial
Setting up Voice Dial	Cancel Voice Dial	Power OFF	-	-
Ringing	Answer	Reject	-	-
Call Active (Audio in headset)	End call	Power OFF	Adjust volume by one step	Mute
Call Active (Audio in headset), second call coming into phone	End call	Power OFF	Adjust volume by one step	Adjust volume continuously

2.4 Figures



3. REGULATION COMPLIANCE300

Compliant with

FCC Part 15 Class B,

ETS 300 328, ETS300 826

Bluetooth Test Specification v1.1 compliant.

4. ENVIRONMENT REQUIREMENT

4.1 Drop and Vibration Test

Anti-Static Voltage

4KV of static voltage testing onto the body should not cause system fail.

Vibration Test

The vibration test is performed under the frequency of 5 ~ 500Hz and the pressure of 1.3g in vertical and horizontal directions for 30 minutes, and the test should not cause any damage on product.

Package Drop Test

Dropping the package from the height of 50cm and collide each of the six surfaces to a hard-wood floor should not cause any product damage.

4.2 Usage Condition

Temperature Range

Operating -0°C ~ +55°C

Storage -20°C ~ +70°C

Temperature Shock

The one cycle of reliability test is keeping -20°C for 2 hours, switching temperature up to +60°C within one hour, and testing at +60°C by 2 hours, and switching temperature to -20°C within one hour. Three cycle should be tested and without any product fail.

Humidity

Operating	0% to 70%
Storage	0% to 95%, Non-condensing

5. GETTING STARTED

Before you start using the headset, you should charge the battery until it is fully charged. Then first pair the headset with a Bluetooth-enabled device and connect in order to access an incoming call or other requests.

5.1 Charging

The GL2BHS83 is powered by a built-in rechargeable battery and the battery is not fully charged when the headset was packaged. Therefore, before using the headset in the first time, please charge the battery using the enclosed 5.0VDC power adapter.

To charge the headset, you need to:

1. Connect the lead from the charger to the charger connector and the charger to an AC wall socket.
2. During charging, Red LED blinks continuously. It takes 2 to 2.5 hours to fully recharge the battery.
3. When the battery is fully charged, Red LED will shut off.

If Red LED flashes in standby mode or the headset beeps in talk mode, it means the battery is low and the battery needs to be recharged.

5.2 Normal Operation Position

The body of the headset can hang on the necklace by threading the strap on the body. A clip kit can be installed instead of the strap depending on the user's preference. The strap and the rubber pad at the back of the headset body needs to be removed before installing the clip.

After wear the necklace, plug the earphone connector to the socket on the headset and the earphone to your ear.

To have a good quality of voice transmission, please avoid covering the area below TALK button, at which the antenna is installed.

5.3 Turning the headset ON and OFF

Turning the headset ON

1. Press and hold the TALK button for at least 3 seconds until 2 beeps are heard
2. At the same time, Green LED flashes 5 times rapidly for a few times
3. The headset is now turned on. Green LED will flash once every 3 seconds.

Turning the headset OFF

1. Press and hold the TALK button for at least 3 seconds until 2 beeps are heard
2. At the same time, Red LED flashes 5 times rapidly for a few times
3. The headset is now turned off.

6. INSTRUCTIONS

6.1 Pairing the headset

Before you can use the headset, you must pair it with an audio gateway device you want to use. To pair the headset with the device, you need to:

1. Turn the headset OFF
2. Press and hold the TALK button. 2 beeps would be heard after 3 seconds. After 4 more seconds, the two LEDs would cross-flash RED/GREEN. Release the TALK button.
3. The headset is now in pairing mode and is ready to be paired with a Bluetooth-enabled device.
4. Pair the headset with the device according to the instructions provided by the device's user guide. The default headset passkey is 0000.
5. When pairing success, Green LED flashes every 3 seconds. If the LEDs still cross-flashes RED/GREEN, it means the pairing was failed. You need to go back to Step 1 and pair again.

6.2 Answering incoming calls

When a call is forwarded from the paired device to the headset, a ring tone will be heard at the earphone. Press TALK button to answer the call. Green LED will then flashes 4 times for every 3 seconds periodically.

NOTE: If your headset is paired with NOKIA cellular phone. The phone will control the headset to auto-accept incoming calls after 2 rings.

6.3 Earphone volume control

Change volume

- Press Volume Up button to turn the volume up.
- Press Volume Down button to turn the volume down.

Mute/Un-mute the microphone

- Press and hold either volume button for at least 2 seconds to mute. The headset will make a periodic low-tone beep warning that the microphone is muted.
- Press either volume button once to un-mute.

6.4 Ending a call

To finish a call, short-press TALK button or press the CANCEL button on the phone. Either button has to be pressed to release a call and also the connection with the paired device.

6.5 Making a call

To make calls using the headset, Voice Dialing needs to be used since there is no keyboard built on the headset. Please check if your phone supports Voice Dialing and then follow the phone's user guide to record voice tags.

The steps of making a call from the headset are:

1. Press TALK button
2. Wait for a beep and then say the name of the person you want to call
3. Please refer to the previous sections for the instructions of earphone volume control and ending a call.

Federal Communications Commission (FCC) Statement

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)

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.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

FCC RF Radiation Exposure Statement:

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.