



# **HS323 Bluetooth Ear Bud Headset**

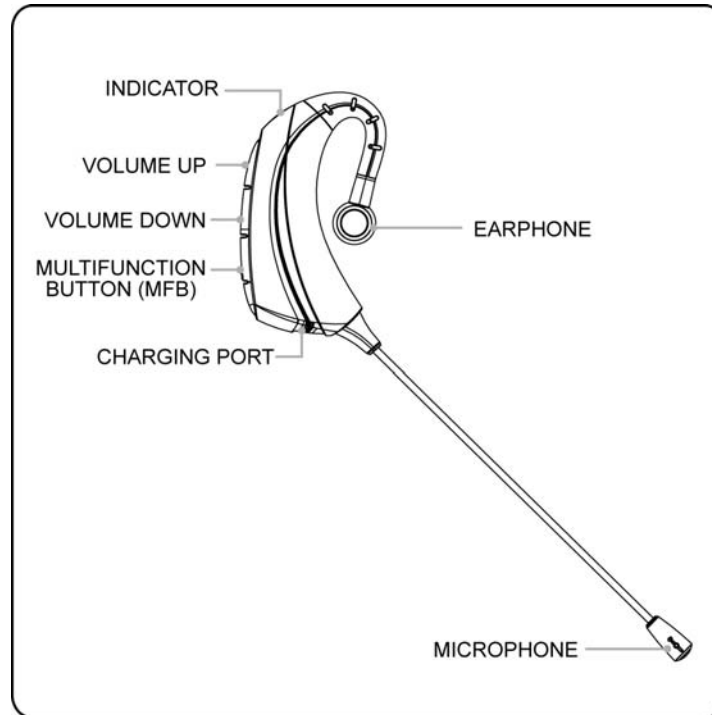
## **Product Specifications**

Date: 16<sup>th</sup> January  
2009



# HS323 Bluetooth Ear Bud Headset Specification

## 1. Product Outlook



## 2. Device Name : HS323

## 3. Pin Code : 0000

## 4. Indications : Amber ( A ) , Blue ( B )

- |     |                           |   |
|-----|---------------------------|---|
| 4.1 | Pairing                   | : ( B ) Blink rapidly                                     |
| 4.2 | Standby without Connected | : ( B ) Blink rapidly once every 3 second                 |
| 4.3 | Connected and Standby     | : ( B ) Blink 1 times every 2 second                      |
| 4.4 | During Communication      | : ( B ) Blink 2 times every 2 second                      |
| 4.5 | Low Battery               | : ( A ) continuing blinking(Blink 1 times every 5 second) |
| 4.6 | Charging                  | : ( A ) light on  |
| 4.7 | Re-charging Completed     | : ( A ) light off   |

## 5. Operation Button and Symbol Definition :

- |     |                           |  |
|-----|---------------------------|--|
| 5.1 | 「Short Click: “+”」        | : Click and release less than 1 second           |
| 5.2 | 「Long Press: “+ +”」       | : Press and release for 2 seconds                |
| 5.3 | 「Press and Hold: “+ + +”」 | : Press and hold the key for more than 6 seconds |
| 5.4 | 「Double Click: “v v”」     | : Click twice within 0.5 second                  |

## 6. Function Table

Profile	Function	MFB	+	-	State
HSP / HFP	Power On	++			Power Off
	Power Off	++			Connectable Connected Connecting
	Pairing	+++			Power Off
	Pick Up	+			Incoming Call
	Hang Up	+			Active Call
	Reject Call	++			Incoming Call
	Last Number Redial	VV			Connectable Connected
	Transfer Audio	++			Active Call
	Voice Dial	+			Connectable Connected
	Voice Dial Cancel	+			Voice Dial
	Mute On			++	Active Call
	Mute Off			++	Active Call
	Volume Up			+	Active Call
	Volume Down				+

## 7. Specification

PRODUCT	
Model Number	HS323
Product Description	Bluetooth ear bud headset
Bluetooth Standard	Bluetooth version 2.1 EDR compliant
SPECIFICATION	
Bluetooth Chipset	CSR BlueVox II_QFN
Operation Distance	Class II
Bluetooth Protocol	HEADSET, HANDSFREE v1.5 profiles
Number of Paired Devices Stored	8 devices
Support Pin Code	0000
Power	3.7V Rechargeable battery
Microphone	6 $\Phi$ , -44dB $\pm$ 2
Speaker	10 $\Phi$ , 32 $\Omega$ , 30~50mW
Battery	120mA, Li-Battery
Talk Time	<= 7.5 hrs
Standby Time	<= 240 hrs
Function Keys	3 buttons
LED Indicators	Amber, Blue
Dimension	63 x 32 x 13 mm
**Weight	TBD
Features	Pick up / Hang up / Volume up / Volume down / Mute *Last call redial *Voice dialing *Call transfer *Reject call Note : The above functions which are remarked with * can act on only if the mobile phone supports HFP.
Accessories	1. USB 8 Pin Car charger(Input:12~24V, Output 5V) 2. USB 8 Pin Home charger(Input :110V, Output:5V) 3.Ear bud for different size * 2

\*\*To be finalize when tooling be made.

## Appendix:

### a. Charge/Discharge & Power Supply

ITEM	Min	Typ	Max
Adapter Power	5V 0.7A Switching Power		
Battery Type & Capacity	3.7V Li-Polymer Rechargeable Battery/120mAH		
Line Input Voltage	4.75	5.0	5.25
Rapid Charging Current		0.5	
Charging time		2.5	
Cut Off Voltage	2.8		4.28

### b. Power Consumption

ITEM	Min	Typ	Max	Unit
Operating Voltage(Li-polymer Battery)	3.0	3.7	4.2	V
Power Consumption Off Mode			10	$\mu A$
Power Consumption Standby			1	mA
Power Consumption ON Mode(No Audio)			1	mA
Power Consumption ON Mode(Talking Streaming)		29.5		mA

### c. RF Characteristics :

ITEM	Min	Typ	Max	Unit
Frequency Range & Channels	Frequency Range 2402 ~ 2480MHz. Each channel has 1MHz spacing, Totally 78 channels. It's base on GFSK modulation.			
Equivalent Isotropic Radiated Power	2			dBm
Antenna Efficiency	40			%
Antenna Gain	-5.96		-3.07	dBi
Antenna Impedance		50		$\Omega$

**d. Environmental Characteristics :**

<b>ITEM</b>	<b>Min</b>	<b>Typ</b>	<b>Max</b>	<i>Unit</i>
Operation Temperature Range	-10		50	°C
Storage Temperature Range	-20		70	°C
Operation Humidity Range	20		80	%
Storage Humidity Range	5		95	%