LED Status Indicators

Idle: No LEDs. Power saving mode.

Standby: Green LED flashes every 2 secs. Headset ready to make/receive calls

Make Call: Green LED on, red LED flashing – 0.5s

Pairing: Red and green LEDs flash alternately

Connected: Green LED permanently on

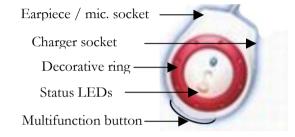
This guide was prepared by:



EskTech Ltd 24 Norfolk Road, Carlisle, Cumbria, UK, CA2 5PQ Tel: +44 (0) 1228 409098 Fax: +44 (0) 1228 409091 Email: support@esktech.com Web: www.esktech.com @ EskTech Ltd 2002

Summary of Controls

Controls: You can control the headset using the single, multifunction button. To check the status of the headset you need to view the two LEDs (one red, one green) and listen to the warning tones using the earpiece.



Switch on: Press button once. The green LED will flash and a low-to-high tone will be heard.Switch off: Press button until a high-to-low tone is heard. Both LEDs switch off.

Pairing: Press and hold the button for 8 seconds – until the green and red LEDs flash alternately – then release the button.

Cancel Pairing: Press and hold the button for 8 seconds - until both LEDs are off – then release the button.

Answer a Call: Press the button once. Reject a Call: Press and hold the button – until the ring tone stops.

Mute: Slide and hold the button. Green and red LED on.

Reset: Press and hold the button for 10 seconds. You will hear a rising then a falling tone. Both LEDs will flash on and off simultaneously.

Volume Control: Rock the button in either direction to increase or decrease the volume.



Bluetooth Headset

Quick Start Guide for Mobile Phone Use



Introduction

The Windigo Systems Bluetooth headset allows you to connect without cables to your mobile phone, PC or any Bluetooth device which supports the Headset profile.

Your mobile phone can stay in your pocket or your briefcase and you can still make (if your phone supports voice-recognition) and receive calls. Provided the headset has been "paired" with your phone and is within a few metres of the phone or PC, the headset and phone should be able to connect together.

What do I need for phone usage?

You need a mobile phone that supports Bluetooth – such as the T39, T68, 6310, 7650 and many others.

Getting Started

- 1. **Charge** the headset, using an appropriate charger for 3 hours
- 2. **Pair** the headset with your phone (Note: the first time the headset is turned on it will automatically be ready for pairing)
- 3. Alternatively, from the Idle state, press and hold the button for about 8 seconds until the green and red LEDs flash alternately.
- 4. Follow the instructions from your mobile phone manufacturer for pairing.
- 5. Enter PIN CODE: 8888 into your phone when prompted.

- 6. Successful pairing is indicated by the red LED going off and the green LED will flash every 2 seconds.
- 7. The phone will also indicate pairing status and "BTHS" should be visible on the phone's display of paired devices.

The headset is now ready to make / receive calls and will ring whenever there is an incoming call. (Note: Your mobile phone has to be enabled for hands-free operation)

Answering an incoming call

When the headset rings simply press the button to answer the call. The green LED will be permanently on once the call is connected.

Reject an incoming call

When the headset rings simply press and hold the button until the ringing stops

To make a call

Your mobile phone must support voice dialling to use this function. Press the button once. The green LED will stay on and the red LED will flash at 0.5 second intervals. Talk into the microphone and, once the call is established, the red LED will go off.

Adjusting the volume

Rock the button to one side or the other to increase or decrease the volume.

Mute / un-mute the microphone

The mute function allows you to consult with someone next to you without dropping the call. Rock and hold the volume button for 6 seconds. Both the green and red LEDs will go on. The microphone of the headset is now disabled. Repeat the operation to un-mute. The red LED will go off.

Notes:

- 1. Default Name: BTHS
- 2. PIN Code: 8888
- 3. Headset can only talk to one phone at a time after successful pairing.
- 4. Pairing mode can be cancelled by pressing and holding the button for about 8 seconds until both LEDs are off and a high-to-low tone is heard. The headset is now idle.

Federal communications Commission

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.

NOTE:

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. This equipment generates, uses and can radiated 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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



2210 O' Toole Ave. #200, San Jose, CA 95131 Tel: 408-576-1770 Fax: 408-576-1790

😵 Bluetooth

Product Brief for: PBTHST02C2M-J

Windigo Class 2 Bluetooth™ Headset Module





Тор

Bottom

PRODUCT OVERVIEW

The **PBTHST02C2M-J** Bluetooth headset module can be used with any application requiring personal audio through a lightweight, easy- to-use and easy-to-wear device, offering enhanced mobility through the use of Bluetooth wireless technology. The **PBTHST02C2M-J** allows for the host headset to be worn and used freely up to a distance of 10 meters from the connecting device. The **PBTHST02C2M-J** is BluetoothTM v1.1 complaint and comprised of two components: Bluetooth **BTM02C2XX** universal Class 2 module and a function board for headset operations.

The **PBTHST02C2M-J** software includes a Baseband implementation complete in terms of features required by the Headset profiles, as well as the underlying protocol layers L2CAP, SDP and RFCOMM. Thus, the headset is capable of connecting to other Bluetooth devices up to and including the RFCOMM layer, for the purpose of exchanging AT+ commands. In addition, the headset software includes SDP, and is thus capable of responding to SDP requests from an SDP client.

The **PBTHST02C2M-J** module offers flexible configuration, accommodating OEM requirements for microphone, speaker, audio jack, and battery options.

SUMMARY OF BENEFITS

- Complete Bluetooth Solution
 - Complete 2.4GHz Radio Transceiver and baseband
 - Full speed Class 2 Bluetooth operation
 - Operating range 10M (33 ft.)
 - Small form factor (45 mm X 36 mm)
 - Built-in Antenna
 - Speaker volume and Mic. gain control
 - Incoming call indication
 - On/Off hook request
 - Authentication and 3 level of security
 - CSR BlueCore2 chipset, incorporating 0.18 μm CMOS technology
 - Embedded Headset profile in firmware
 - Optional Audio Gateway

• BQB qualified and listed

• Fully compliant with BQB v1.1

• Low Power Consumption

- 4 hrs talk time, 100 hrs standby time
- Deep sleep mode for power savings
- Low Power standby modes
- Onboard voltage detector and charging protection
- Single cell Li-Polymer battery power supply
- Low overall systems cost
- Simplify overall design/development cycle
- Operation in both commercial and industrial temperature ranges

• Software

- Support Headset Profile
- Support Audio Gateway



Power Consumptions

Test conditions: VDD = 3.15V, Temperature =20°C, Frequency = 2.45GHz

Mode	Min.	Average	Peak	Unit
SCO connection HV3 (1s interval sniff mode)	-	31	-	mA
SCO connection HV1 (1s interval sniff mode)	-	61	-	mA
Hold mode (deep sleep turned off)	1.8	-	-	mA
Deep sleep	71	-	-	μΑ

Note: Power consumption is for the entire PBTHST02C2M module including RF chip, Flash and CODEC

Electrical Characteristics

Absolute Maximum Ratings		
Rating	Min	Max
Storage Temperature	-10°C	60° C
Supply Voltage	-0.4V	3.6V

Recommended Operating Conditions		
Operating Condition	Min	Max
Temperature	-10° C	50°C
Supply Voltage	3.0V	4.2V

About Windigo Systems - "Bluetooth Solutions Provider"

Windigo Systems was founded in February of 2001, in San Jose, California. Windigo Systems bills itself as a comprehensive "Bluetooth Solutions Provider" and offers a variety of technology applications to wirelessly connect electronic devices seamlessly utilizing the Bluetooth standard. The company's flagship product is a series of advanced Bluetooth modules that can be integrated into almost any electrical device, providing the OEM with an affordable and relatively simple method of enabling their products with Bluetooth technology. In addition, Windigo Systems has committed a team of talented engineers and development specialists to explore and develop advanced applications and new products utilizing Bluetooth technology. At the dawn of this new era in wireless communications, Windigo Systems is well on its way to becoming a successful industry leader in providing Bluetooth technology solutions to the electronics industry.