

**BT3080**  
**User Manual**

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## 1. GENERAL DESCRIPTION

BT-3080 Bluetooth universal headphone supports 4 Bluetooth profiles and they are:

- ④ BT-3080 supports headset and hand-free profiles to work as a wireless headset with mobile phones or VOIP to manage phone call.
- ④ BT-3080 supports advanced audio distribution profile (A2DP) to work as a wireless headphone with MP3 phones, MP3 players or computers.
- ④ BT-3080 supports audio video remote control profile (AVRCP) to work as a wireless remote control.

BT-3080 is an light weighted dynamic supra-aural wireless ear loop type mini headphone. Its 27 mm speakers are tuned to emphasis bass to provide better listening experiences for pop and rock music. BT-3080 is extremely portable and one of the smaller of its kind. Tecom's BT-3080 Bluetooth universal headphone mini is an all-in-one mobile accessory that come in an miniature package.

## 2. TYPICAL APPLICATIONS

- ④ Wireless headphone
- ④ Wireless mobile phone headset
- ④ Wireless VOIP headset

### 3. General Specifications

Bluetooth Standard:	Bluetooth V2.0 Qualified
Range:	Up to 10 meters (66 feet) in open space
Listen Time:	Continuous music play time (A2DP) up to 10 hours
Talk Time:	Continuous talk time (hand-free, headset) up to 12 hours
Stand-by Time:	Up to 250 hours
Speaker:	27 mm Neodymium
Battery type:	250 mAh Lithium Polymer
Charge	2.5 hours
Others:	④ Noise reduction with DSP technology ④ Remember last 5 paired devices ④ USB charging capability
Dimension	Diameter: 40 mm Thickness: 18 mm w/o ear cap, 23 mm w/ ear cap

#### 4. USER INTERFACE



**Figure 4.1 Left Ear User Interface**

1. Play/Pause/Call Multiple Function Button
2. Bluetooth Status Blue LED
3. Next/Previous button
4. Microphone Boom



**Figure 4.2 Right Ear User Interface**

1. On/Off switch
2. Mini USB port for charging and firmware upgrade
3. Charging indicator LED

**CONFIDENTIAL MATERIAL**

**TABLE 4.1 BT3080 USER INTERFACE**

Placement	Description	Abbreviation
<b>Button</b>		
Right ear	Power On/Off Button	Power
	Forward Button	Next
	Backward Button	Prev
	Multi-functions :Pairing/ Play/ Pause/ Stop/ Call Answer/ Call End	MF
	Vol+ Button	Vol+
	Vol- Button	Vol-
<b>LED</b>		
Right ear	Charging Indicator	O (Orange)
Left ear	Red LED: Mute/ Low battery/ Pairing	R (Red)
	Blue LED: Power on/ Mono or Stereo active	B (Blue)

**TABLE 4.2 BT-3080 LED STATUS**

State	LED on (ms)	LED Repetition Cycle Time (ms)	LED Mapping
Turn off	0	0	All LED go off
Turn on/ Connectable	100	10000	Blue
Pairing/ Incoming/ Outgoing call	100	600	Red & Blue
Stereo active	100	6000	Blue
Connected to phone	200 <sup>Note 1</sup>	10000	Blue
Mono active	100	3000	Blue
Microphone Mute	100/100	6000	Red
Low battery warning	300 <sup>Note 2</sup>	10000	Red
Charging	Steady ON	OFF (when fully Charge)	Orange

⌘ Note 1: Flash 2 times every 10 seconds

⌘ Note 2: Flash 3 times every 10 seconds

**TABLE 4.3 BT3080 PHONE CALL MMI**

<b>Function</b>	<b>Action</b>	<b>Button</b>
Turn on HS	Switch to ON	Power
Turn off HS	Switch to Off	Power
Activate pairing	5s Hold	MF
Call answer	One press	MF
Call reject	1s Hold	MF
Call end	One press	MF
Outgoing call cancel	1s Hold	MF
Volume up	One press	Vol+
Volume down	One press	Vol-
Mute – microphone	2s Hold	Vol+ and Vol-
Initiate last dialed call	1s Hold	Next
Initiate last received call	1s Hold	Pre

**TABLE 4.4 BT-3080 REMOTE CONTROL MMI**

<b>Function</b>	<b>Action</b>	<b>Button</b>
Play	Press once	MF
Pause	Press once	MF
Stop	Press twice	MF
Forward	Press once	Next
Backward	Press once	Pre

## 5. ELECTRICAL SPECIFICATIONS

**TABLE 5.1 BT3080 POWER CONSUMPTION**

<b>Mode</b>	<b>Average</b>	<b>Unit</b>
Standby	0.8	mA
Inquire scan, 1.28 sec. interval	18	mA
Page scan, 1.28 sec. interval	20	mA
ACL connection, sniff mode, 40 ms interval	0.8	mA
SCO connection (Mono)	22	mA
Streaming music @ 44.1KHz sample rate (Stereo)	25	mA

**TABLE 5.2 BT3080 BATTERY LIFE**

<b>MODE</b>	<b>LIFE</b>
Battery Type	Lithium Polymer
Battery Capacity	250 mAh
Charging Current	125 mA
Charging Time	2.5 hours
Stand-By Time	Up to 270 hours
Stereo Mode (Audio Streaming)	Up to 10 hours
Mono Mode	Up to 12 hours



TABLE 5.3 BT3080 RF Specifications

Description	Min.	Typ	Max.	Unit
Frequency specification				
Frequency range	2402		2480	MHz
Modulation characteristics				
$\Delta f1$ (ave)	140	155	175	MHz
$\Delta f2$ (max)	115			MHz
$\Delta f1$ (ave)/ $\Delta f2$ (ave)	0.8			
Initial carrier frequency accuracy	-75		+75	KHz
Carrier frequency drift				
One slot packet	-25		+25	KHz
Five slot packet	-40		+40	KHz
Max drift rate (KHz/ 50us)			20	
Transmit specification				
Tx power (for Class 2)	-2	0	+2	dBm
Tx power (for Class 1)	15	17	19	dBm
20dBc occupied bandwidth			1	MHz
In-band spurious emission				
2MHz offset			-40	dBm
>3MHz offset			-60	dBm
Out-band spurious emission				
30MHz to 1GHz operating mode			-55	dBm
1GHz to 12.75GHz operating mode			-47	dBm
1.8GHz to 1.9GHz			-60	dBm
5.15GHz to 5.3GHz			-47	dBm
Receive specification				
Receiver sensitivity (BER < 0.1%)		-79		dBm
Max usable signal level	-10			dBm
Co-channel interference		8	10	dB
Adjacent channel interference		-4	-3	dB
Adjacent channel interference (2MHz)		-38	-35	dB
Adjacent channel interference ( $\geq$ 3MHz)		-43	-40	dB
Intermodulation	-39	-36		dBm
Receiver spurious emission				
30MHz to 1GHz			-57	dBm
1GHz to 12.75GHz			-47	dBm

## 6. ACOUSTICS SPECIFICATIONS

SPEAKER TYPE	
Size	27 mm Neodymium
SPEAKER FREQUENCY RESPONSE	
Telephony	300 Hz to 4 kHz (CVSD u-Law)
Stereo Audio	20 Hz to 20 kHz (16 bit 48kHz SBC Coding)
Distortion	<3%

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.

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

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the  antenna or the device is permitted. Any change to the antenna or the device could result in the device  exceeding the RF exposure requirements and void user's authority to operate the device.