AVANTREE

BTSP-750-B

UI Specification Document

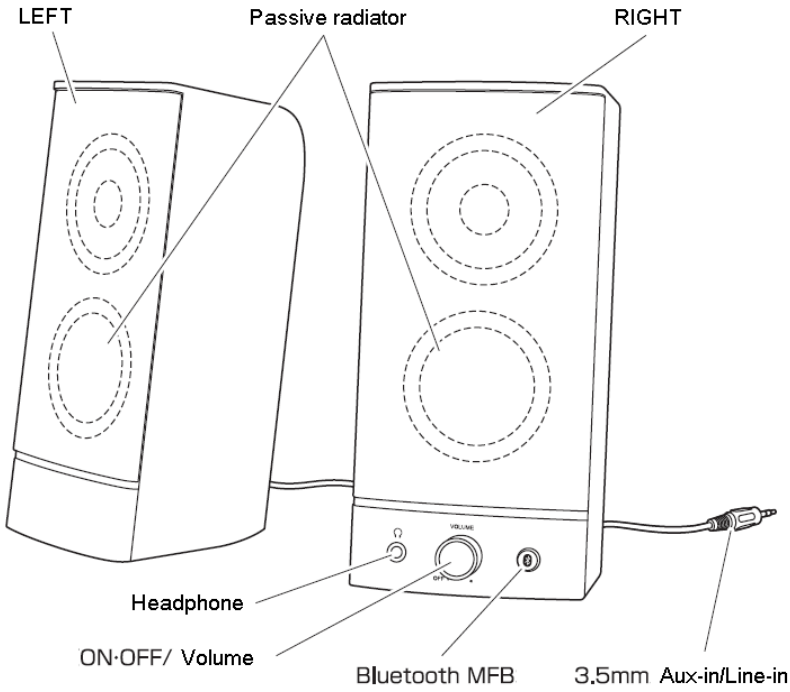

Table of Revisions:

Revision	Description	Date	Changes	Checked
0.1	Initial Draft	2016-11-29	Wilson Wong	
0.2	Change Power On LED status	2016-12-09	Wilson Wong	
0.3	Update Power consumption data	2016-12-29	Wilson Wong	

Preliminary Specification:

1.0 Introduction

"AVANTREE PC+BT" is a Computer and Bluetooth dual-function stereo speakers, support for electrical adaptor for the local power supply. Using blue LED lights to display playback and work of the state, the CSR8630 low-power stereo Bluetooth chip, Compliant with Bluetooth V4.0 specification, fully downward compatible with Bluetooth versions.

2.0 Electrical description:

1. External AC Power supply to DC 12VDC, and 1.0A
2. Driver 8 ohm speakers Dia. 58mm, and passive Radiator Dia.65.5mm

3.0 UI description:

1. Tone notice for BT: Power On(Tone), Power Off(Tone), Connected(Tone), Dis-connected(Tone)
2. LED indicator: **FF**=Fast Flash [100ms/100ms off], **SF**=Slow Flash [500mS/500mS off],
3. Power On slow flashing (BT Waiting), fast flashing (BT Pairing), Solid Blue (BT Connected)

LED status		BLUE
Pairing name : Avantree SP750	SW-ON	BT Waiting(SF), Press BT button to BT Pairing(FF)
	BT Waiting(PC mode)	SF
	BT Pairing	FF
	BT Connected	ON
	SW-OFF	X

4. Blue LED flash fast, it means that is under Pairing mode, if no one pairs within 1 mins, the unit will change to Standby mode, press MFB button to wake-up & auto connecting last paired device. User can play with mobile phone/ pad again.
5. When unit at BT mode, user can press and hold MFB button 2 seconds switch to Pairing mode, press and hold MFB button 2 seconds again to Standby mode

4.0 Product Highlights:

Connectors	1x Fixed 3.5 mm(0.14") AUX-In cable 1x 3.5 mm(0.14") Headphone Jack
Bluetooth	Supported Bluetooth Profiles:A2DP, AVRCP Supported Codec: SBC Operating Range: (2.402GHz-2.480GHz) Up to 10 meters measured in line of sight.

Controls	Volume control with ON/OFF function (Power ON, Volume adjustment)
Ideal Application	Bluetooth-enabled mobile phones, computers, iPads, iPods, and other handheld devices
Phone Function	NO

5.0 Power consumption test

ELECTRICAL CHARACTERISTICS	MINIMUM	TYPICAL	MAX	UNIT
Distribution range of input voltage	9	10	12	VDC
Standby current	48	58	70	mA
Bluetooth is connected current		58	70	mA
Playback Current (1khz, 0dB), (Player Samsung Tab2)		400 (1/2volume)	1000	mA
SNR		80		dB
Speaker output frequency response range		100-20K		HZ
Distortion + Noise (8 ohm speakers)		10		%
Frequency Range		2.4-2.48		GHZ
Transmission distance (Class 2)		10		Meter

6.0 Electro-acoustic test, Speaker Test Curve

7.0 Key definition, Operations and user interface definitions

Function	Before operation	Status switch	Volume Knob	Multi Function Button	LED Description	Remark Description
Power ON	OFF	Clockwise to turn ON			Blue light On	with a tone 6S automatically back to the connection, such as no matching records, will go to standby mode
Power OFF	ON	Anti-clockwise to turn OFF			Blue light Off	a tone
Bluetooth state	connected				Blue light On	Automatic back connection, a tone
	Connected re-pairing			Long press 2s	The blue light flashes	Manually enter the pairing, a tone. If no connect & matching records, will go to standby mode after 1 min
	Clear the memory pair			Long press 5s	Blinking blue light, clear Memory pairing	There are beeps, manually re-boot
Exit pairing mode				Long press 2s	Blue light On	Manually enter the pairing, a tone
Volume +			Turn clockwise to increase the volume			
Volume -			Turn anti clockwise to decrease the volume			

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.
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
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 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.
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.
FCC ID: **2AITF-BTSP-750-B**