

# IW-BT260 Product Profiles

## 1. Product Specification:

### ✧ Features:

- Bluetooth V5.0
- USB disk input
- TF card input
- AUX analog input
- LED display
- 60W x 2 (max) @4Ω power amplifier
- Aluminum panel with plastic box housing

### ✧ Product Picture:



### ✧ System Operational Theory:

- ATS2819 BT controller handles Bluetooth function and system management, includes BT/USB/TF Card/Line In/ inputs, LED display control, IIC signal and I/O pins control are communicated btw system controller, power amplifier and so on.
- The combined DSP audio processor at ATS2819 BT chip processes the high-quality audio streaming.
- MA12070 60W\*2 power amplifier chip drives the R/L channel speakers.
- SCT2321 DC converter converts +24VDC input to +5VDC for the low voltage devices operation.
- Si-4015 P-MOS power switch operates to supply the high power for audio power amplifier smoothly and works with power amplifier mute /unmute to decrease the pop noise at system powering on.

- LED display shows the system operation status include: various source input modes, USB disk playing time, BT connection, etc.

✧ Function List:

- Bluetooth:
  - ✓ Operating Frequency Band: 2.4~2.8GHz unlicensed ISM band
  - ✓ Output Power Class: Class 2
  - ✓ Supports AFH (auto frequency hopping)
- USB Interface:
  - ✓ Supports USB2.0 and down compatible USB1.1
  - ✓ USB Disk Mode:
    - ◆ Supports file formats: FAT16/FAT32/ExFAT/FAT64
    - ◆ Capacity: >32G
- Input Connector:
  - ✓ USB connector
  - ✓ TF card connector
  - ✓ 3.5mm AUX earphone connector
- Power Amplifier:
  - ✓ Class D type with 2.0 design
  - ✓ 60W x 2 (max) output power @4Ω 1kHz
  - ✓ Frequency response: 55~26kHz
  - ✓ THD+N: <0.1@50W/ch
  - ✓ SNR:
    - ◆ Digital input: > 90dB
    - ◆ Analog input: > 86dB

✧ PCB Version: v0.4

✧ Firmware Version: v200401

✧ PCB Antenna Gain: 0dBi (Max)

✧ Power Adapter:

- AC IN: 100~230V 50-60Hz
- DC Output: +24V/3A

✧ Dimensions: T.B.D.

✧ Weight: T.B.D.

## 2. Operational Manual:

✧ Function Illustration:



✧ Descriptions:

- <1>: USB port
- <2>: LED display
- <3>: 3.5mm AUX input jack.
- <4>: Knob
  - ✓ Clockwise turn right as volume up.
  - ✓ Counter clockwise turn left as volume down.
  - ✓ Short press the knob will cycle the input source selection.
  - ✓ Long press the knob till the voice prompting “disconnected” “wait for connection” to force releasing the current Bluetooth connection.
- <5> Preview the music playing
- <6> Play / Pause the music playing
- <7> Forward the music playing, long press the key can toggle the system power on/off

### FCC Warning

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.

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.

### Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.