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S M S L B2 USB Bluetooth Digital Interface Receiver

S M S L B2 USB Bluetooth Digital Interface Receiver User Manual

Contents

S.M.S.L

S M S L B2 USB Bluetooth Digital Interface Receiver

Product Information

Specifications

- **Brand:** SMSL
- **Model:** B2
- **Supported Codecs:** LDAC/APTX-HD/SBC/AAC
- **DAC Chip:** Cirrus Logic CS43131
- **Signal-to-Noise Ratio:** 128dB
- **Output Level:** 2Vrms
- **Total Harmonic Distortion + Noise (THD+N):** 0.0002% (113dB)
- **Compatibility:** Windows 7/8/8.1/10/11, Mac OSX 10.6+, Linux
- **Bit Depth:** 24-bit
- **Supported Sample Rates:** PCM 44.1kHz, 48kHz; LDAC 24bit/96kHz, aptX-HD 24bit/48 kHz, aptX 16bit/48 kHz, SBC 16bit/44.1 kHz, AAC 16bit/44.1 kHz

Product Usage Instructions

Connecting the SMSL B2

1. Connect the SMSL B2 to your audio source using the provided USB cable.
2. Ensure the device is powered on.
3. Select the desired codec on your audio source for optimal performance.

Configuring Audio Settings

Adjust the audio settings on your device to match the supported sample rates and codecs of the SMSL B2 for the best audio experience.

Listening to Audio

1. Play your desired audio content on your connected device.
2. Enjoy high-quality sound output through the SMSL B2 DAC.

Frequently Asked Questions

Q: What operating systems are compatible with the SMSL B2?

A: The SMSL B2 is compatible with Windows 7/8/8.1/10/11, Mac OSX 10.6+, and Linux.

Q: What is the supported signal-to-noise ratio of the SMSL B2?

A: The SMSL B2 has a signal-to-noise ratio of 128dB for clear and high-fidelity audio output.

Safety Notes

- Install this unit in a well-ventilated, cool, dry, clean place away from direct sunlight, heat sources, vibration, dust, moisture, or cold.
- Use the voltage specified on this unit Only. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, or personal injury.
- Our company will not be held responsible for any damage resulting from the use of this unit with a voltage other than that specified.
- Do not attempt to modify or fix this unit by yourself. Contact a salesperson or customer service when any service is needed. The cabinet should never be opened for any reason.
- When not planning to use this unit for long periods (i.e. when going on vacation), disconnect the power cable from the AC wall outlet.

Important note:

- The product specifications and information mentioned in this manual are for reference only. The content of this manual is subject to change without notice.

Warranty Terms

1. The term of service Foshan Shuangmusanlin Technology Co., Ltd. promises good quality products. If the product is defective by normal use within 7 days after purchase, the customer can choose to send it back for return or repair (only the product does not affect the secondary sales can be returned). Faulty for free within one-year warranty normal use.
2. The date of purchase is under the date on the invoice or receipt used by the seller, online shopping can show the screenshot of the trade.

3. The following situation can not enjoy "Three Guarantees Service":
      - **a.** All damages by human factors, including use in non-normal working environments and not following manual instructions.
      - **b.** User privately disassembles, modification, and maintenance.
      - **c.** Use non-designated or approved accessories to cause damage.
      - **d.** QC or warranty stickers damage on the cabinet.
      - **e.** Can not provide a valid purchasing proof.
      - **f.** Not belong to SMSL product.
4. **How to guarantee:** These terms are only suitable for China mainland, and other regions please refer to the policy of the local sales agents and nations.

Features

- The latest Qualcomm Bluetooth module, supports LDAC, APTX/HD, SBC, AAC;
- The latest audio decoding chip from Cirrus Logic, CS43131, has an RCA output dynamic range of up to 128dB;
- Supports coaxial and optical output;
- Aluminum alloy CNC processing panel technology, using touch switches, exquisite workmanship, and great tactile sensation;
- Using a 1.9-inch color screen, Bluetooth playback supports a lyrics display.

B2 Packing list

- 1 x SMSL B2
- 1 x USB Cable
- 1x User manual
- 1 x Warranty card
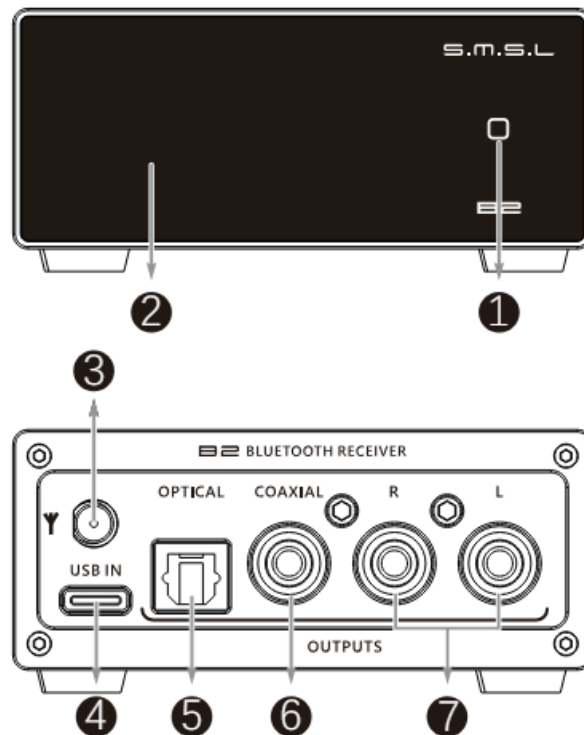- 1 x Bluetooth antenna

Specifications

- **Input.**……………………………………………………………………….Bluetooth, USB
- **Output.**………………………………………………………Optical, Coaxial, Line out
- **Output level..**………………………………………………………………………….2Vrms
- **THD+N..**………………………………………………………………….0.0002%(113dB)
- **Dynamic range**……………………………………………………………………128dB
- **SNR**………………………………………………………………………………128dB
- **USB transmission**…………………………………………………….A synchronization
- **USB compatibility**………………Windows 7 / 8 / 8.1 / 10 / 11(Needs Driver)
- **Bit depth**……………USB
- **Sampling rate** …..USB PCM Mac OSX10.6+ Linux(Driverless) 24bit 44.1 48kHz

Bluetooth specification:

- **LDAC .**………………………………… 24bit/96kHz (990kbps/660kbps/330kbps)

- **aptX-HD** ……………………………………………………………….24bit/48 kHz_576kbps
- **aptX .**……………………………………………………………….16bit/48 kHz_352kbps
- **SBC** …………………………………………………………….16bit/44.1 kHz_328kbps
- **AAC .**…………………………………………………………..16bit/44.1 kHz_320kbps
- **Power Consumption**…………………………………………………………………<1W
- **Standby power…..**……………………………………………………………………..<0.1W
- **Size…**……………………………………………………………77 x 35 x 90mm (WxHxD)
- **Weight.**……………………………………………………………………150g/0.33lbs

Display Interface and Instructions

1. Switch
2. Display screen
3. Bluetooth antenna
4. USB input(5V 0.2A)
5. Optical output
6. Coaxial output
7. Line output

Instructions for Use

Push-button

- Long press to turn off the power, short press to turn on the power.
- Short press to switch the input source, and the input will switch between USB and Bluetooth.
- **Noted:** The operation should not be too fast to leave enough response time for the system!

Operating instructions

- Connect the relevant wires and install the Bluetooth antenna before powering on the device.
- Please use a USB TYPE-C cable to connect to the SMSL B2. The screen will light up and the current input information will be displayed, ready for operation at any time.
- **First Bluetooth playback:** After the device is powered on, the Bluetooth of the device is in a searchable state. Please short-press button 1 on the device to switch input sources and confirm that "Bluetooth&Pairing" is displayed on the screen.
- On the other hand, please open the Bluetooth on your phone/computer, in the Bluetooth interface, you can see the option to "search for devices", clicking on it will automatically search for nearby Bluetooth devices that are in a "searchable" state (some phones will automatically search after Bluetooth is turned on, and users do not need to manually click).
- In the "Available Devices" column, we can see the Bluetooth named "SMSL B2" that has been searched.
- Finally, click confirm" to complete the Bluetooth matching.
- **Using a computer for playback:** Simply connect B2 to any USB interface on the computer through a USB TYPE-C cable.
- Once plugged in, your computer will automatically recognize external devices. You can click on the speaker icon in the bottom right corner of the computer desktop to switch to the B2 speaker for playback.
- If not, you need to install the corresponding driver.
- **http://smsl-audio.com/**

Documents / Resources

S.M.S.L B2 使用说明书 http://smsl-audio.com/	**S M S L B2 USB Bluetooth Digital Interface Receiver** [pdf] User Manual B2, B2 USB Bluetooth Digital Interface Receiver, USB Bluetooth Digital Interface Receiver, Bluetooth Digital Interface Receiver, Digital Interface Receiver, Interface Receiver, Receiver

References

- **-SMSL |**
- **User Manual**