

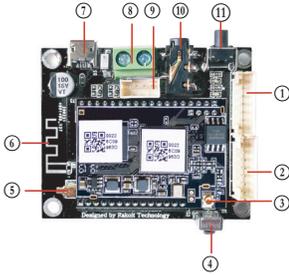
# Up2Stream Mini User Manual

## 1. Introduction

Up2Stream Mini is WiFi and Bluetooth audio receiver board that can be easily integrated to your existing audio hardware devices to enable them with network and bluetooth streaming capability. With Up2Stream installed and using app 4STREAM, it allow you to stream music from cloud, phone, NAS, and famous streaming services, such as spotify, deezer, qobuz, tidal..etc. It also support multiroom and multizone control and music playback with multiple units connected .

## 2. Interface

L\*W\*H: 55.0\*45.0\*12mm Screw type: M3



- ① Extension Port
- ② IIS-Out, SPDIF Out
- ③ WiFi Antenna
- ④ IR Receiver
- ⑤ External BT Antenna Connector
- ⑥ On-board Bluetooth Antenna
- ⑦ Micro USB (Power/Playback)
- ⑧ 5V 1A Power in
- ⑨ Line Out
- ⑩ 3.5mm Line-out
- \* ⑪ Power Button

LED Status :  
 Power on :White light on  
 System Booting :White light blink fast  
 Ready for Connection: White light blink slowly  
 Ready to play : White light on steady  
 Bluetooth Pairing: Blue light blink  
 Bluetooth Connected :Blue light on steady

\*⑪ **Power Button**: Short press to power off and on; When in WiFi mode, long press (press and hold the button for more than 5 seconds) to reset WiFi settings and enter the paring mode; When in Bluetooth mode, long press to terminate current connection.

### Further Notes

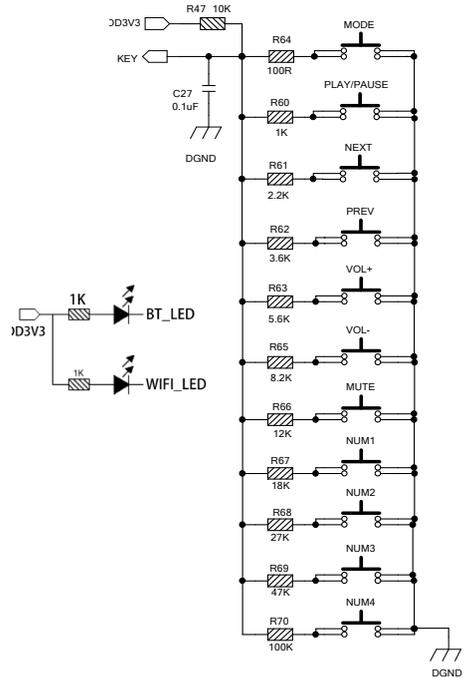
① **PH2.0-7P: BT\_LED, WIFI\_LED, GPIO2, GPIO1, ADC\_KEY, GND, VCC\_3V3 (top to bottom)**

GPIO2 and GPIO1 is used to connect a coding key, should be used for volume control. KEY is a ADC key port, reference the diagram below for key definitions. BT\_LED, WIFI\_LED are used to extend the LED, and are common-anode connected. You should connect 3.3V to a current limit resister and then to LED and then to the pin. (reference the diagram below)

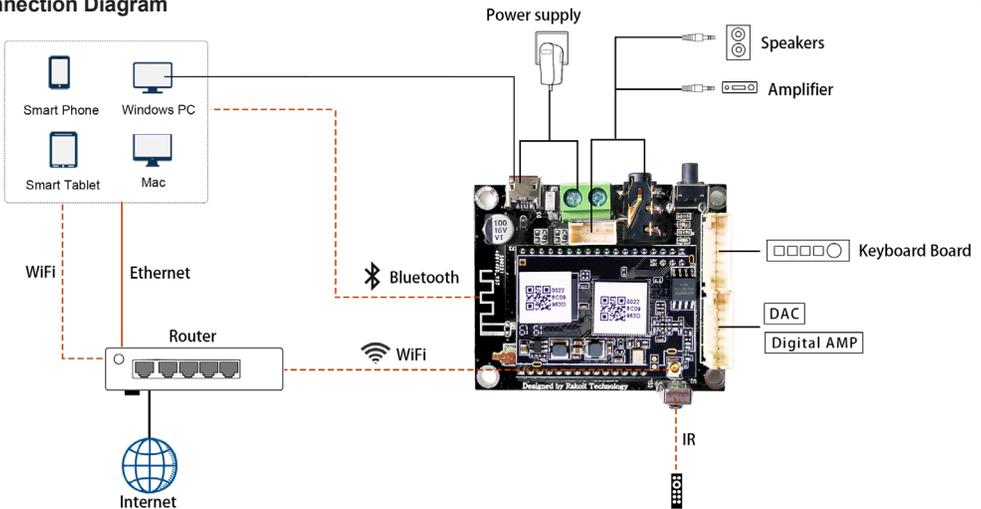
② **PH2.0-7P: SPDIF, MCLK, IIS\_DATA, BCLK, LRCK, GND, VCC\_3V3:**

This is the digital audio output extension. For the IIS, BCLK is 2.8MHz, the LRCK is 44.1KHz, the MCLK is 11.288MHz, the DOUT following the standard IIS data format and have 16 bits depth. The system is running in master mode, you should make sure the IIS port of connected device is running in slave mode.

③ **PH2.0-4P: ROUT, GND, LOUT, GND:** For analog output to amplifier board, it has same signal with the 3.5mm Aux jack.



## 3. Connection Diagram



## 4. Specification

Connectivity	Wireless network	IEEE802.11 b/g/n 2.4G
	Bluetooth	5.0 SBC/AAC
Power Input *		5V-1A/2 pin connector
		5V-1A micro USB input
Audio output		Analog 3.5mm/4 pin connector
		Digital I2S, SPDIF(44.1KHz)
Frequency response		20Hz to 20kHz
SNR		100dB @ 0dBFS, 1KHz
THD+N		0.03% @ 0dBFS, 1KHz

Music Format	FLAC/MP3/AAC/AAC+/ALAC/APE/WAV
Decoding	Up to 24bit/192kHz
Protocols	AirPlay, DLNA, UPnP, Spotify Connect, Qplay
NAS Support	NAS with DLNA support
Dimensions	55*45*12mm
Accessory	4Pin 220mm PH2.0 Cable
	Pin 220mm PH2.0 Cable 2Pin 220mm Power Cable User Manual

\* Warning: Up2Stream Mini must use 5V-1A DC input, higher voltage power supply may damage the board.

## 5. How To Use

### 5.1 App download

Download the 4STREAM application from App Store for iOS based devices and Google Play Store for Android based devices.

The application supports English, Spanish, French, German, Italian, Portugese, Korean, Simplified Chinese, Traditional Chinese and Japanese



### 5.2 Connection via app

1. Power up the device.

2. Direct Mode: If you don't have router, please choose direct mode, then you can play your music from your storage from 4STREAM app .

3. Network Mode : Connect your phone to SoundSystem WiFi.

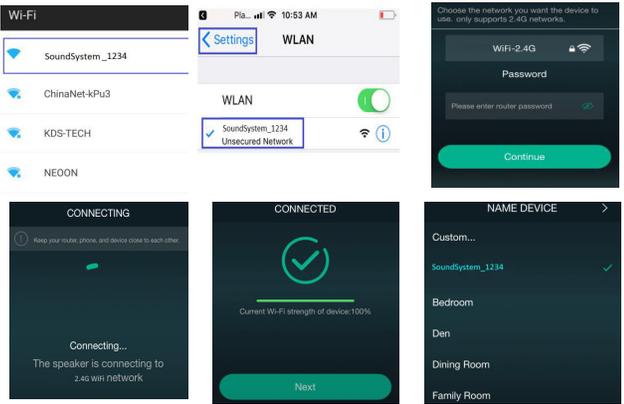
3.1. Go for mobile device WLAN settings> Connect mobile device to WiFi hotspot SoundSystem\_ xxxx you will see a WiFi logo . (short press the reset button if the Wi-Fi hotspot is not found)

3.2. Open the 4STREAM application, follow the guides

3.3 Choose the 2.4G network( first time connection require connect your router 2.4G channel), enter router password>wait for the device to be configured.

\* For multiple units connecting to same router, router password will be saved .

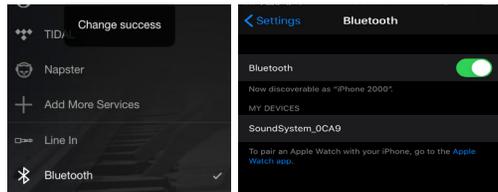
\*If change router or router password, please press WiFi reset button on the product .



\*Attention for Android users  
Different brand mobile phones may ask you to allow to use SoundSystem WiFi network, please choose yes, if not, you may not able to set up successfully . It may also ask you to authorize other things, please choose yes or it may affect your usage.

### 5.3 Bluetooth

To use bluetooth ,please swtich to bluetooth via app or by remote controller,then find bluetooth device SoundSystem\_XXXX from your phone bluetooth setting and pair it .

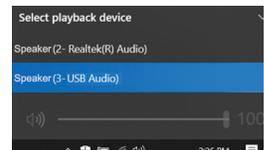


### 5.4 USB audio

Connect the Up2Stream Mini to your PC with USB cable (make sure it's a data cable including the signal wires). The PC will automatically discover a USB sound card, and when you activated it as the system main output, the PC will send the audio output over Up2Stream Mini in digital (44.1KHz/16bits).

You can stream to other Up2Stream devices over multiroom connection.

NOTE: there's about 3 seconds delay for multiroom slave devices.

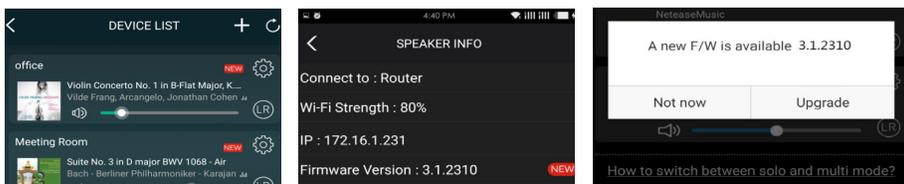


### 5.5 Audio Effects Tool

Connect the Up2Stream Mini to your PC with USB cable (make sure it's a data cable including the signal wires). And open the program ACPWorkbench (only support Windows.), and you can tune audio effects conveniently, including Music Noise Suppressor, Virtual Bass, Stereo Widener, Exciter, 10 bands EQ, etc. After editing the audio effects, you can save the changes to the device so the tuned effects will remain. You can get ACPWorkbench from our website [www.arylic.com](http://www.arylic.com)

### 5.6 Firmware update

The application will notify you in app when there is a new firmware version available.It's recommended to update firmware whenever available as this might not only correct bugs or improve security,but also can add new features or services.



Scan the QR codes below for more



Complete User Manual



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