WR100
Multi-room audio-streaming adapter

INSTRUCTION MANUAL

CONTENTS

Caution !

As for all radio systems, the performances greatly depends of the environment: The distance to the router, the disposal of the rooms inside the house, the house construction materials are all parameters which influence the performances of your system.

It's recommended to place the router near the center of your house and not at one extremity. For large habitations or with second floor and concrete slab, it could be necessary to add a PLC system (Power Line Communication) to conduct the internet signal to the router.

The traffic on your home network is also very important to ensure the correct operation of your system: For example, if you watch video on-line, your router bandwidth could not be large enough to transport correctly the sound to your speaker system. If you operate your system in crowded Wi-Fi environments like a company or use a corporate router, you also might be affected by the traffic.

Before Start

1. Safety Instructions

Be sure to read the user's manual before starting the operation of the product.

Never open any part of the product to prevent a possible electric shock. No naked flame sources, such as lighted candles, should be placed on the apparatus.

Place the product in a well-ventilated and no-heat environment. **DO NOT PLACE THE PRODUCT ON ANOTHER PRODUCT PRODUCING HEAT (**example an amplifier) **IMPORTANT:** This product is not an outdoor product! Only for indoor use!

To clean the device, disconnect it from AC source. Only use a soft cloth, never use any solvent..

When you do not use the product for a long time, make sure that power cord is pulled out from the outlet. Also do not use a damaged power cord as it may cause fire or electric shock. Do not touch the AC line and AC connectors with wet hands as if may cause electric shock.

Do not put the heavy items on the product. That may cause damages not supported by the warranty.

Do not place the product or AC adaptor in a position where it is exposed to moisture or water hazards. NEVER place any water carrying vessels such as vase, etc... near the unit.

Moving the unit to a hot area from a cold one will cause condensation. If condensation occurs, leave the product in a warm, well ventilated area and do not operate it for 30 minutes or one hour or until it has dried completely.

If the unit broken accidentally, do not touch any parts with your hands. Ware protection clothes, put the parts in a bag and remit it to an electronic shop or a special waste place to treat electronic used goods.

Disposal: All electrical and electronic products including batteries should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
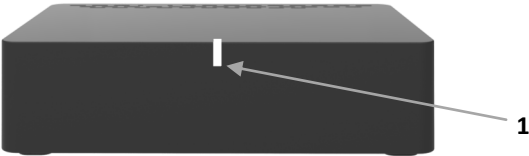
2. Accessories

Wr100   **Quick Start Guide**

DC Cable

3. Unit description and operation

Front panel

Rear panel

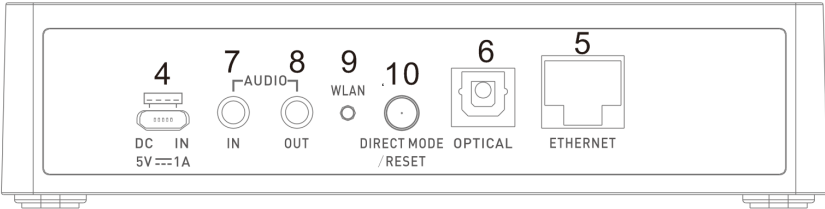| 1.	Multi-Function LED indicator	This indicator takes several colors function of the unit status: Flashing Yellow: Booting. The LED is flashing during around one minute until the WiFi operation starts. Please wait until the LED becomes white to get your WR100 operational. **White:** Wi-Fi mode: In Wi-Fi mode, the indicator can take 4 different status below: → Flashing slow: Booting and Waiting connection → Flashing fast : Connecting → Permanently white: → a. Connected to the home network; → b. Direct mode connection

4.	DC IN	Connector to plug the micro-USB to USB cable delivered to a 5V 1A DC Adapter
5.	Ethernet (LAN)	Ethernet RJ45 connector to connect a wired LAN. If this connector is used, the Wi-Fi is switched-off
6.	Optical OUT	Optical Output to connect to a stereo amplifier with optical input capability
7.	Analog Audio input	3,5 mm jack Analog Left and Right input to connect to an Aux. Source. Level is 0dBm/ 600 Ω. This input is selected by the APP.
8.	Analog Audio output	3,5 mm jack Analog Left and Right outputs to connect to your stereo Amplifier
9.	WLAN	For easy connection to your home Wi-Fi network. Press this key and the WPS key of the router simultaneously for an automatic Wi-Fi pairing
10.	DIR MODE /RESET	This key has a double function: Short press (one second): set the device in DIRECT MODE. In this mode you can stream music directly without need of a local wireless network Long press (more than 6 seconds): RESET: Return to factory setting (delivery status)

4. Get ready

1. Minimum requirements

Android Phone (4.1 minimum) or iPhone (from iPhone 4 with IOS 7.0 and later).

- Router WiFi 802.11n, with WPA2-PSK encryption (AES)

- ADSL or Optical Internet connection

- For Multi-room or High Resolution playing, a 5 GHz multimedia router (speed> 600 Mbps) is highly recommended.

- For the best operation, the router must be placed at the center of the house or apartment.

2. Download and Install the "NuPrime Audio" App to your mobile phone:

Open an account or use your existing parameters to connect on Google or Apple stores.

Android Phone : Go to Google Play Store and looking for NuPrime Audio App, then download it.

iPhone: Go to Apple Store and looking for NuPrime Audio App, then down

load it

Open the file manager and install the App.

3. Create your account:

Tap on "New here? Create your account", fill the fields and create your own password for the APP. Then register

Enter your activation key the register, the key is located at the back of the Quick start guide
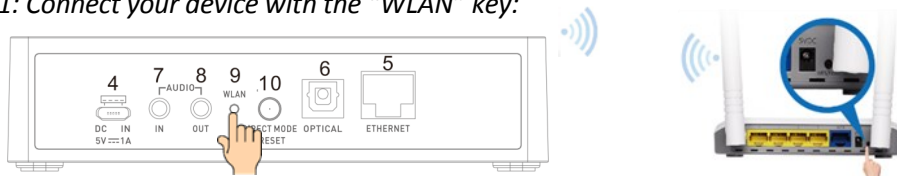
4. Connect your unit into your internet environment:

Install your unit in a dry and cool place of your living room. Care to place it on a stable support (not on another electric device producing heat).

Install the unit in a place you are sure to receive the Wi-Fi Signal from your Home Wi-Fi router.

Connect the device to a 5V DC 1A power adapter. The LED indicator turns to flashing yellow. Wait the LED turns to flashing white to get your WR100 visible by other Wi-Fi devices.

Then have several ways to associate your WR100 to your home Wi-Fi Router:

4.1: Connect your device with the "WLAN" key:

Press the WPS key of the router and the WLAN key of the WR100 simultaneously. The LED is flashing fast (white). After around 10~ 40 seconds, the Wi-Fi LED on the device becomes permanent white: The unit is connected to your network.
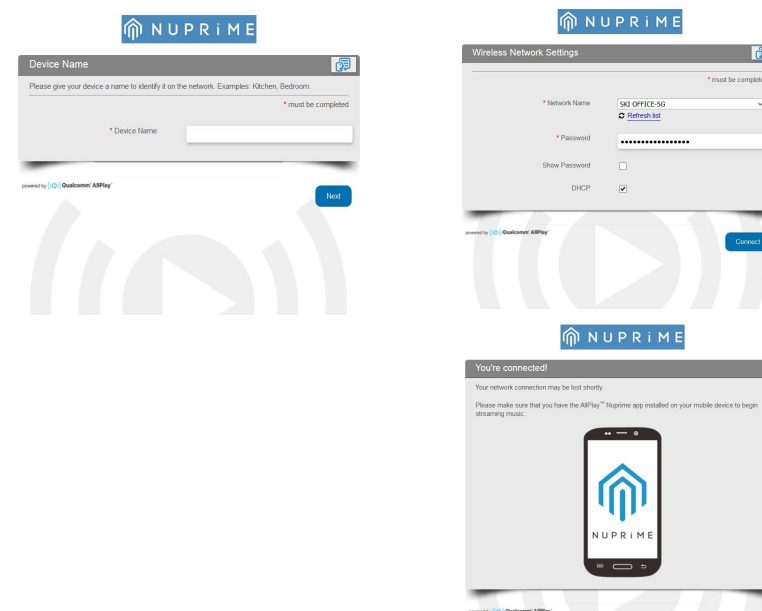
4.2: Connect your device using a browser:

If your router does not have a WPS key, open the WLAN settings on your mobile phone or on your computer and look for the Wi-Fi network:

Nuprime-WR100_xxxxxx-AJ (xxxxxx depends of your device serial number).

Select and connect to this network.

Open your browser, you will be automatically redirected on the login web page. If you are not automatically redirected, type in your browser the address: http://172.19.42.1

Input a friendly name for your unit (this is the name that will be shown on the app when you will play from your mobile phone), can be Living room, Bedroom, or whatever.

Select your network name in the scrolling menu, then input your home network password.

Click on "Connect", your device is looking for your home network, when connected the Wi-Fi LED will turn to permanent white.

5. Play music

Please make sure your mobile devices and audio devices (Wireless Audio adapter, Speakers) are connected to the <u>same</u> Wi-Fi network
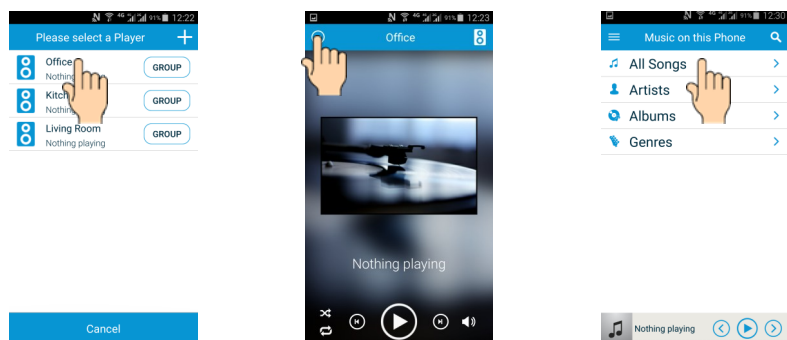
5.1 From your mobile phone/ tablet:

a. Open the NuPrime Audio app on your mobile phone/tablet and wait your unit to be displayed (Display "Wireless Adapter" or the friendly name if you setup already).
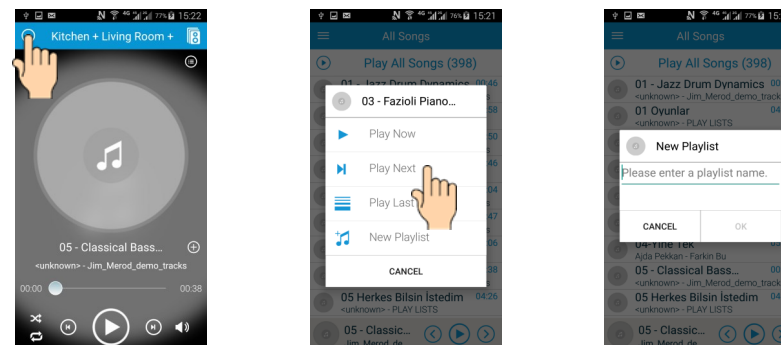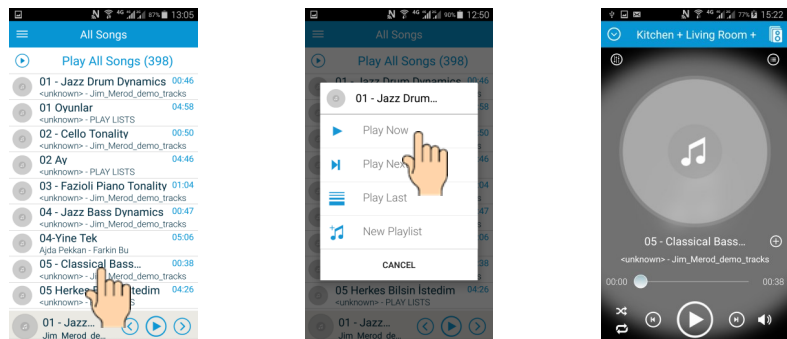
Notes: 1. if you have several audio devices connected on your Wi-Fi network, it will appear as a list.

2. Depending the speed of the network, the audio device may need up to one minute to be displayed.

b. Select the audio device on which you want to play, then press the menu button: the app asks you to select the source of the music.

c. Select "Music on this Phone" and " All Songs": the songs presents on your mobile phone/ tablet are displayed.

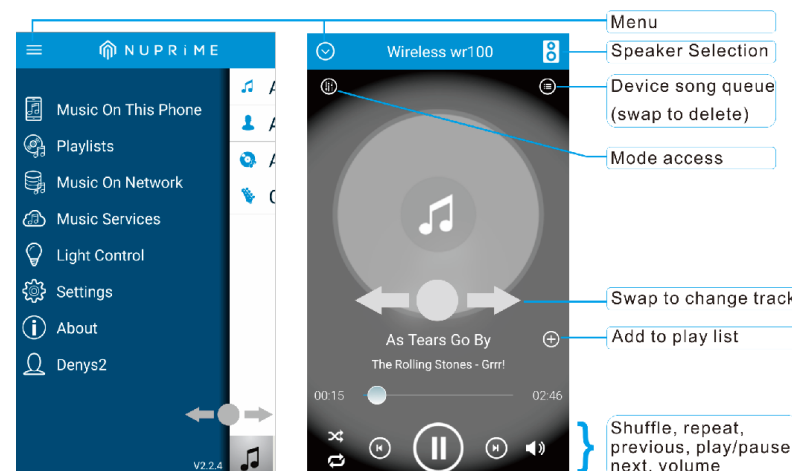d. Chose a song and tap "Play Now", the song will be played on your device

e. Press the menu button to come back to the list and add more songs.

f. After selection you can choose to play immediately (Play Now), after the song currently playing (Play Next) or at the end of the list (Play Last). You also can create a play list of the selected songs or add a song to a play list hat you already created on the APP

Notes: 1. The APP can create playlists from your local songs (songs on your phone) or from the songs present on a server but cannot mix it

2. The app can discover and play the existing playlists of your phone but cannot modify it

g. Use the button up/right as toggle function between the device song queue and the played song
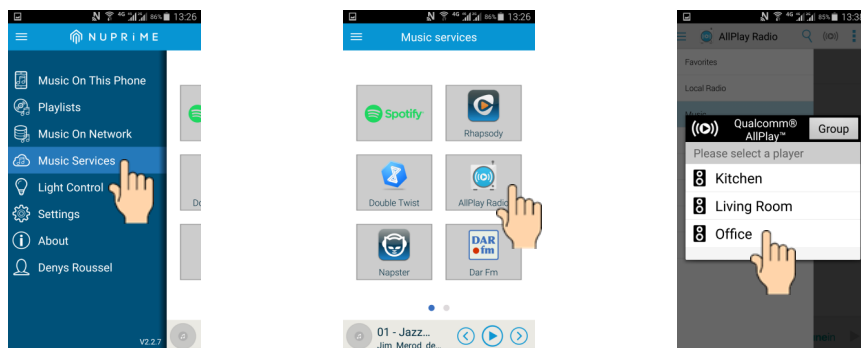
Player controls

5.2. Internet Radio

Qualcomm® AllPlay™ Radio, powered by tunein, allows you to play more than 100000 radios wordwide by Internet.

To access to the service:

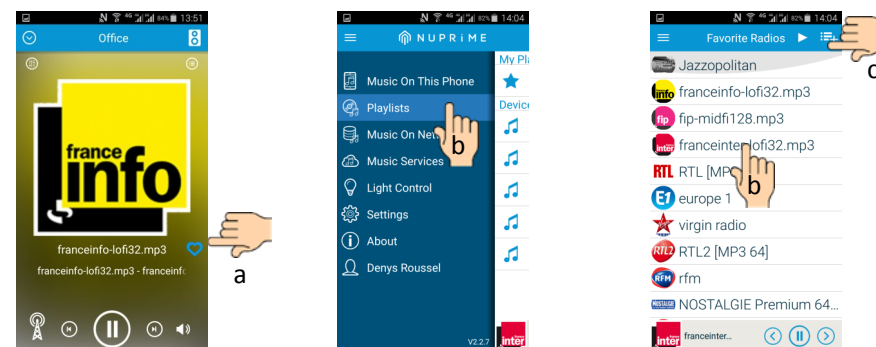Go to the APP menu, select " Music services" "AllPlay radio", download the APP and create a tunein account

c. Launch the AllPlay Radio APP, select the device on which you want to play

d. Select a radio, it will be played on your device, the return to the NuPrime APP to get the full control of your device
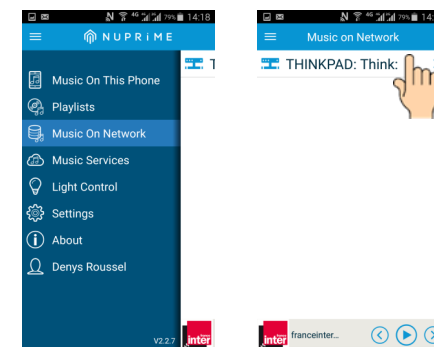
5.3. Favorites Radios

Play a radio and observe the play screen of the NuPrime APP:

a. Tap on the heart at the right of the screen to create a favorite radio

You can do it for each radio you like up to 99

b. To recall a radio: Go to the Playlist menu, select " Favorite Radios" and select the desired radio

c. Controls: The buttons on the right top bar menus allows to send the complete favorite radio list to the device or to launch the AllPlay Radio APP directly

5.4. Music on Network

The APP discovers the DLNA servers connected to your home network. It can be a NAS, a computer with DLNA server function (like windows 7 and above), or simply an hard disc connected on the USB port of your router if it has a DLNA function
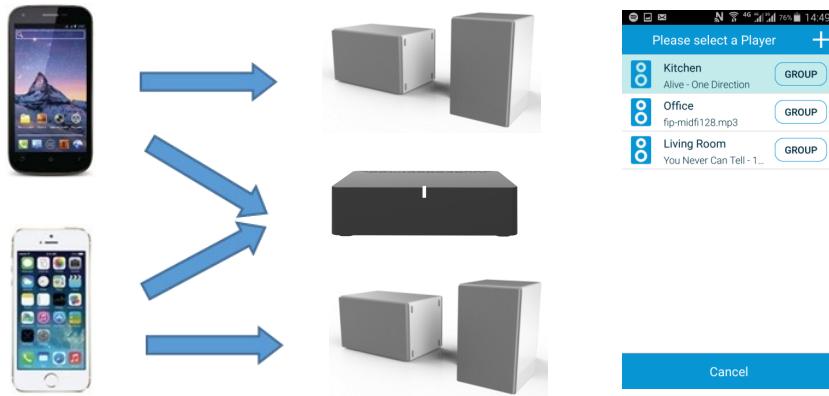
5.5. Music Services

Your WR100 allows to stream the on-line music like Spotify, Rhapsody, Napster and more. Open the Music Service tab, launch a service, download the APP and sign-in. Music services need to register and may apply some fees

5.6. Multi-control

If you have several mobile devices connected to your home network running the NuPrime Audio APP, you can build a common play list from your different mobile devices.

5.7. Multi zones:

If several audio devices (speakers, audio adapters) are connected simultaneously on your home Wi-Fi network, you can play indifferently a song on speaker 1 and another song on the speaker 2 from any mobile device connected to the network.
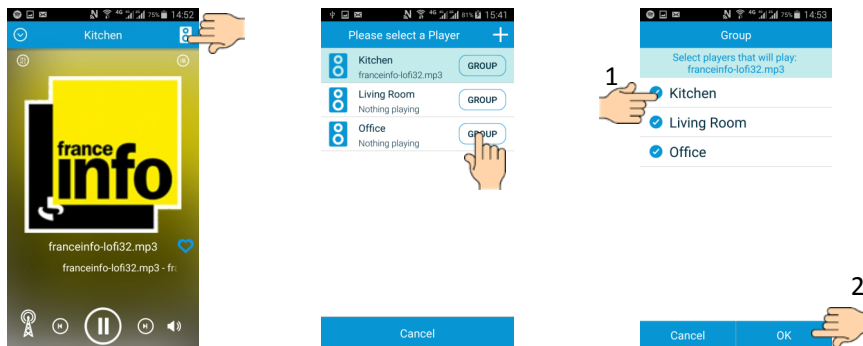
6. Multi-room operation(Party mode, or stereo)

Multi-room need two or more audio devices (up to 10 if your network can support 300 Mbps speed), the recommended operation being 2 to 4.

Notea: 1. All speakers and audio adapters must be connected on the same Wi-Fi network.

2. The speed of the network is very important to benefit of the Multi-room function. If more than two audio devices are connected, the usage of a 5GHz multimedia router is recommended. From 4 audio devices connected, this is highly recommended.

3. To play High Resolution songs (HR), you imperatively need to use a multimedia router and connect all audio devices and your mobile device in 5 GHz band. The Number of speakers and audio adapters which can be used in HR depends from the performances of your network. It's recommended to not group more than 2 audio devices.

a. Press the speaker logo on the top of the screen to display the devices list:

b. Press the "group button", and select the audio devices you want to group. Then press "OK"

c. Select the group and operate as a single speaker.

d. When touch the volume control a new screen appears allowing to adjust the volume of the speakers independently. Close this screen by pressing the symbol:

6. Settings

Press this buttons to access to system settings. In this section, you can access to various system options like:
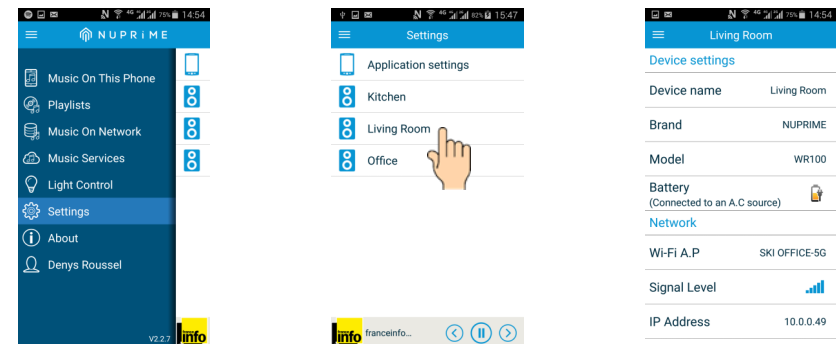
Rename your audio device

Restart the app or a device

Check the signal received by the audio device

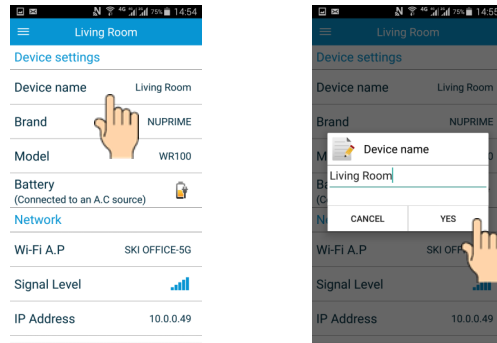Check the IP address assigned to the audio device by your home router

Assign a password to an audio device

Check if a new firmware is available for your audio device
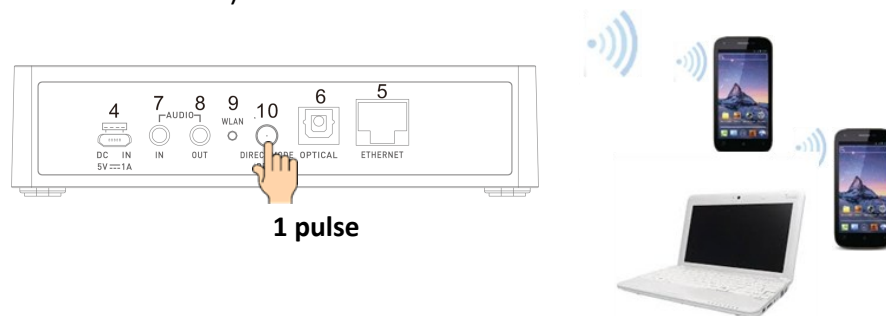
6.1: Rename your device:

a. Press the "Device name"

1. After press the Direct mode key to exit from direct mode, wait minimum 30 seconds to let to the audio device to reconnect to the Router mode

2. In Direct mode, the multi-zones and multi-room functions are not available.

3. A long press on the DIR.MODE/RESET button (more than 6 seconds) will makes the audio device goes to factory reset and clear the network SSID name, password and friendly name.

4. If a song is played when you press the Direct mode key, the song continues to be played during a certain time, this is normal.

b. Delete the current name and input the new one, then press OK.

7. Direct mode (Access Point mode)

Press the DIR.MODE/RESET button at the rear of the unit (one pulse around one second).

1 pulse

The LED indicator is flashing few times then light then becomes permanent white: the unit becomes detectable as a Wi-Fi access point.

Browse your LAN list on your mobile device and select "wireless adapter" or your device name if you already gave a name to your device, then connect your PC to the audio adapter.

Open your app and play directly.

To come back in router mode press the DIR.MODE button again (press one second).

8. DLNA router operation

Your audio puck is compatible DLNA audio.

Set the unit into Access Point mode as described in 7.

Connect your DLNA devices to the Access Point. The router function accepts DLNA audio devices, can be DLNA controller, server or renderer.

Open your DLNA controller application and wait to display the several DLNA devices connected to the network. Select a song on a DLNA server from a DLNA controller and play it on the selected renderer.

Note: As a DLNA compatible renderer, the WR100 can be seen by a DLNA controller. Select "Wireless adapter" in the renderer list to play your selected song.

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Wi-Fi is a registered mark of the Wi-Fi Alliance.

iPhone is trademarks of Apple Inc., registered in the U.S. and other countries.

9. Trouble shootings

Cannot associate my device to my router	1. Please make sure to wait at least one minute after POWER-ON before try to connect your audio device to a router. 2. Reset your device (Press the RESET key at the back more than 6 seconds, see page 4) wait one minute, and try again. 3. If the audio device was already associated to a Wi-Fi network and you want to connect it to another network, you must factory reset the device (see above} 4. Try to associate your audio device using the browser of a personal computer (see page 6).
I cannot see my device in the APP	1. Please make sure your mobile device (mobile Phone/tablet) is connected to the <u>same</u> network as your device. 2. After open the APP, wait 30 seconds to one minute to see the device, depending the speed of your network. The system need time to publish the device on the network becoming recognizable by the APP. 3. If after try to restart the App and/or the audio device, checked if all is connected to the same Wi-Fi network and still cannot see the unit, switch OFF mobile phone and disconnect the audio device from the main power and then restart all your system.
Some songs cannot be played	1. The system <u>does not</u> support the WMA format, if you have those songs, please convert it to MP3 first 2. Some songs bought on music's stores (for example Apple store) contains restricted rights and cannot be played.
Cannot see your PC on the network	Windows 7 and above only: Please check if you allow your PC to share the contents on the network (right click on Network in your PC+ share contents).
Cannot play songs from the network	Check if you don't have an active firewall which can block the streaming from the PC or from the NAS.

Main Features

- Wi-Fi connection, dual band 2.4 & 5 GHz-2T/2R
- DLNA compatible
- Quick Connect to Home Wi-Fi network function (WPS via WLAN key)
- Supports Direct Mode (direct access point) or network router connection
- Party mode (Router mode only)
- Multi-zones / Multi-room operation (router mode only)
- Operation: Multi-color LED indicator; 2 keys on back
- Power input: 5V DC - 1A (micro USB connector)
- Power consumption in ON mode : < 5 W
- Standards: CE, ERP2, REACH, ROHS

Europe – EU Declaration of Conformity

English

This product operates at 2400 - 2483.5 MHz and is designated only to be used inside a normal household environment. This product is suited for this purpose within all EU counties.

Hereby, NuPrime inc. declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

The declaration of conformity may be consulted at

HTTP://XXXXXXXXXXXXXXXXX