

G2Link DAC Streamer

user manual
revision 1.0

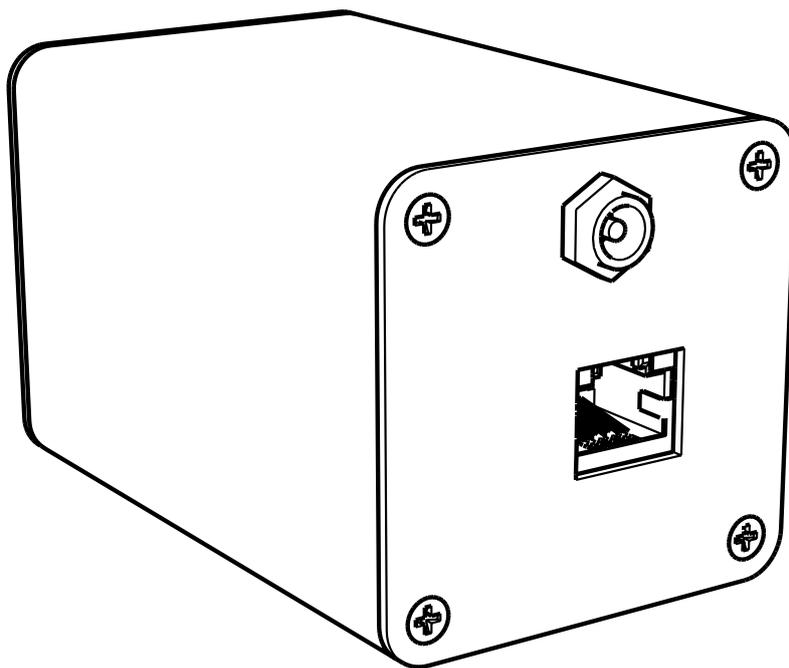
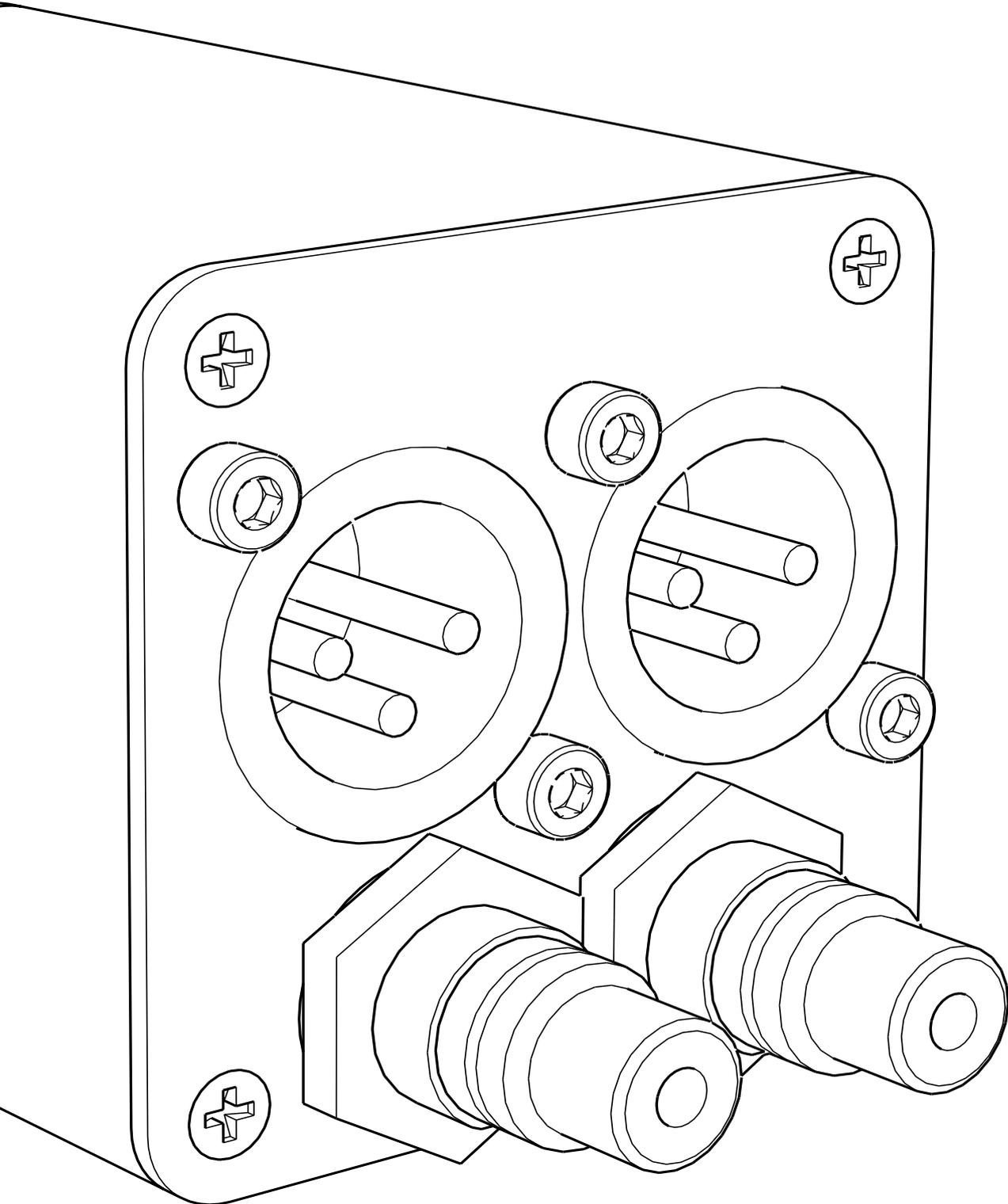


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Included in the package

1x G2Link DAC Streamer



Overview

G2Link DAC Streamer is developed by G2 Labs and is a product by enthusiasts for enthusiasts. G2 Labs vision is to deliver products without compromise to the parts of great importance. That is why each component, in terms of both hardware and software, is carefully chosen, developed and listened to. The product is a result of many years of development and has been run through hard and long tests before released on the market. Each internal section of the circuit has custom made, dedicated power supplies. These are constructed specifically for audio to separate electrical noise from the digital to analog conversion. The software is equally thought through and kept minimalistic to not stress the processor more than necessary and in return keep the ground noise floor as low as possible.

The D/A Converters are dual 24-bit stereo audio DACs with integrated op-amp drivers, powered by the industry proven Sabre DAC technology. With Time Domain Jitter Eliminator, the G2Link DAC Streamer delivers jitter-free studio quality audio. Designed without the need for output dc-blocking capacitors, it is of course pop-noise free.

G2Link DAC Streamer can be used either in a single end (RCA) or a balanced (XLR) setup. It is prepared for plug and play to an existing Local Area Network and works with multiple playback protocols and lossless formats with streaming services like Qobuz, Tidal, Roon and of course a NAS. To get the most out of the G2Link DAC Streamer we recommend using a balanced stereo setup and stream preferably Wave files from a NAS.

Power requirements

5VDC (PSU is not included)

Configuration

G2Link DAC Streamer doesn't need any hardware configuration.

Technical details

PCM up to 24-bit/192 kHz

DSD up to DSD512

DNR: 112 dB

THD+N: 0.002 %

Interchannel Isolation: 100 dB

Protocols

UPnP/DLNA

Roon

Airplay

Inputs

5VDC

Ethernet

Outputs

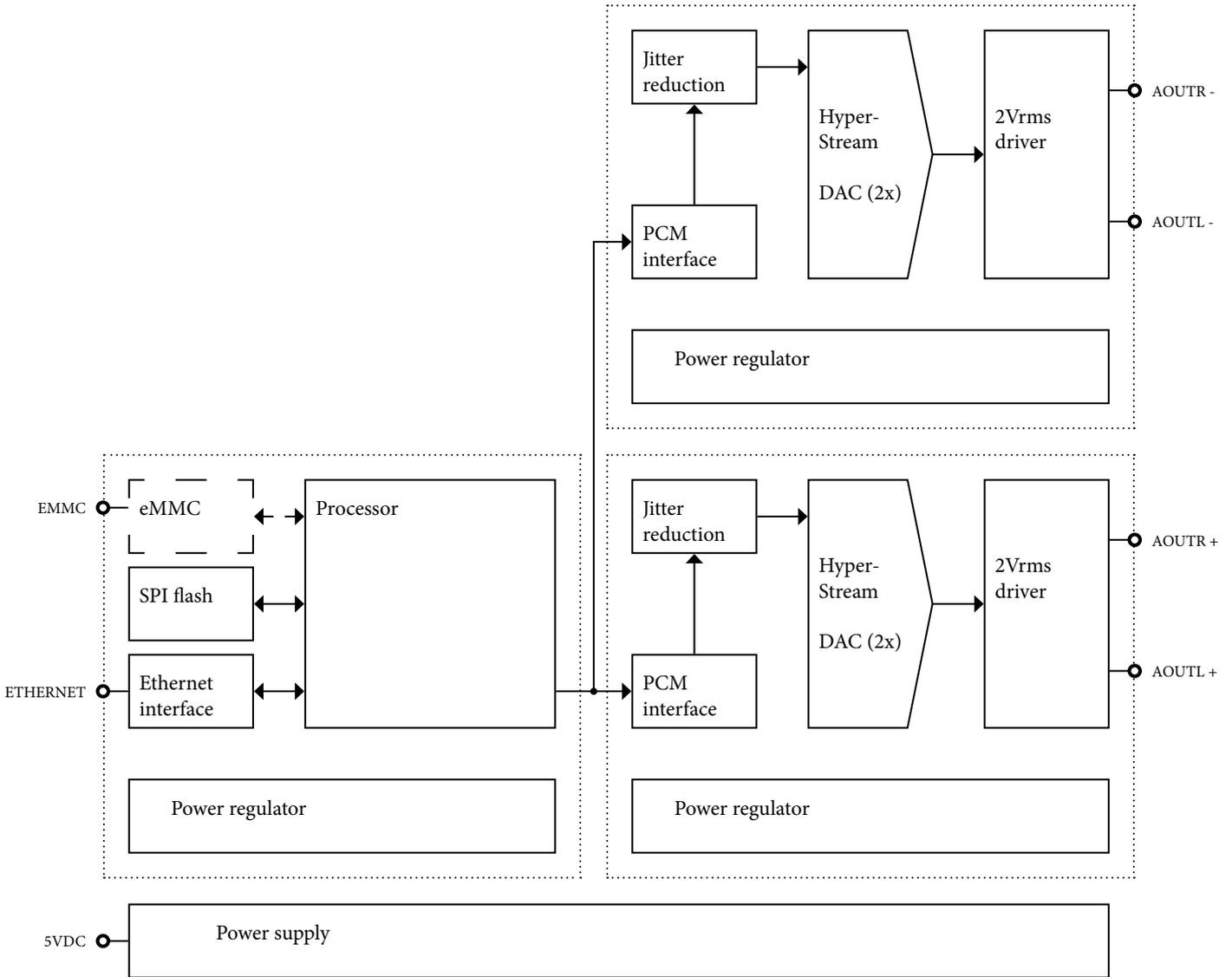
L/R Balanced XLR

L/R Unbalanced RCA



Block diagram

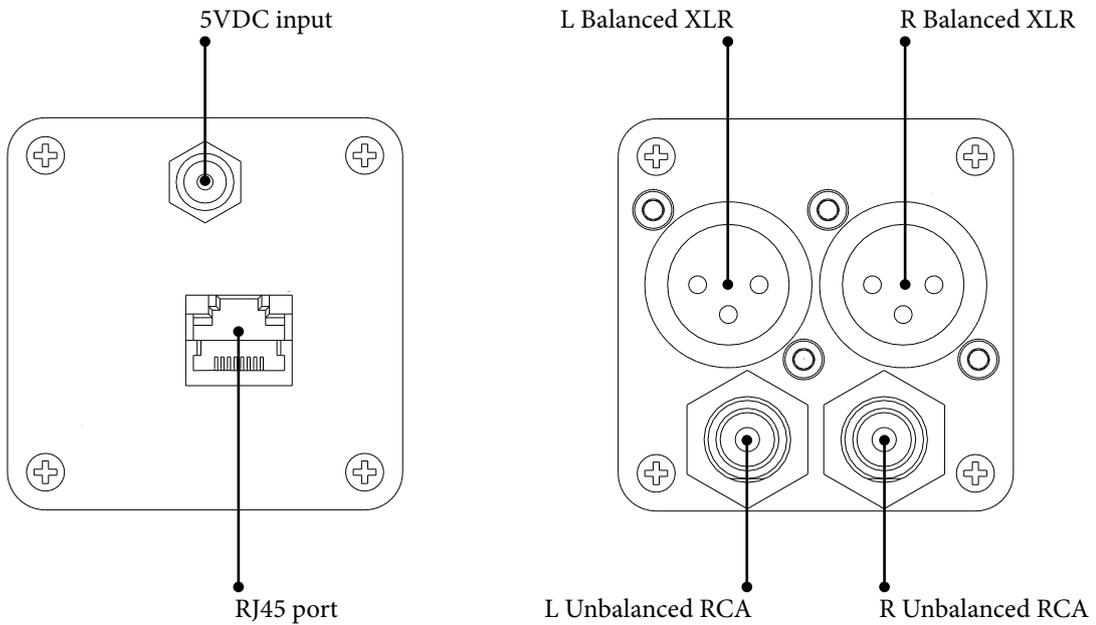
Simplified technical block diagram



Get started

It's easy to get started with G2Link DAC Streamer. Simply follow the below steps:

1. Connect an Ethernet cable from your Local Area Network to the RJ45 port.
2. Connect either L/R Balanced XLR cables or L/R Unbalanced RCA cables to your amplifier or active speaker.
3. Connect a 5V Power Supply to the DC input (power supply is not included).
4. After a minute you will be able to find your G2Link DAC Streamer among your network devices.
5. Use preferred service and enjoy.



Software

Once G2Link is connected, up and running you can use different software and protocols to stream your music. For handheld Android devices we recommend using BubbleUPNP or BubbleDS app. For handheld IOS devices we recommend using mconnect Player Lite, mconnect Player or mconnect HD.

Simply follow the below steps to get started

1. Download and install one of the following the apps:

App Store (IOS)

mconnect Player Lite (free)
mconnect Player
mconnect HD



Google Play (Android)

BubbleUPNP (free)
BubbleUPNP License
BubbleDS



2. Make sure your handheld device is connected to the same network as your G2Link DAC Streamer.

3. Follow one of our app guides on the following pages to get started with your handheld device.

mconnect Player

Instructions to get started with mconnect Player IOS app

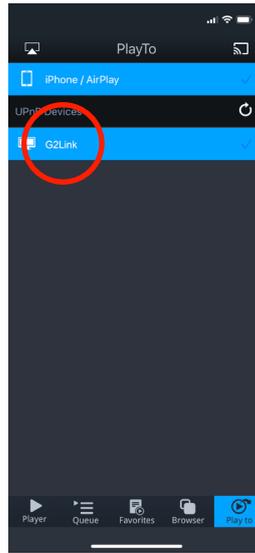
1. Start the app



2. Click "Play to"



3. Select G2Link



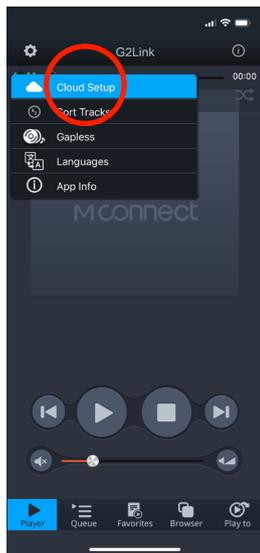
4. Click "Player" and check the volume level is not too loud



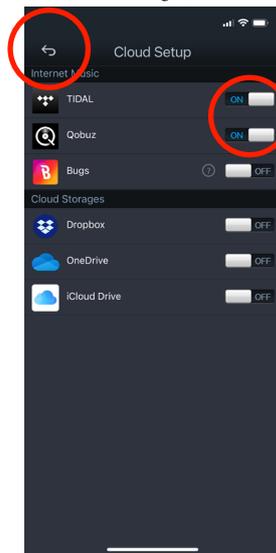
5. Click on the "Gear" icon



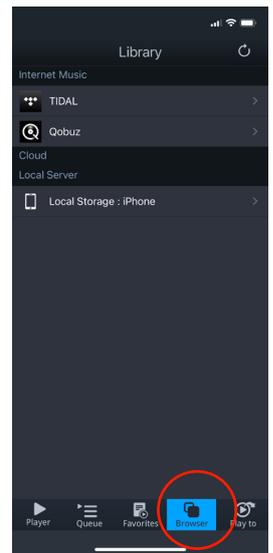
6. Choose "Cloud Setup"



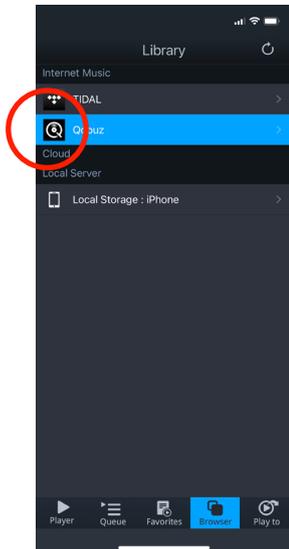
7. Make sure the services you want to use are active. Eg Qobuz/Tidal and return



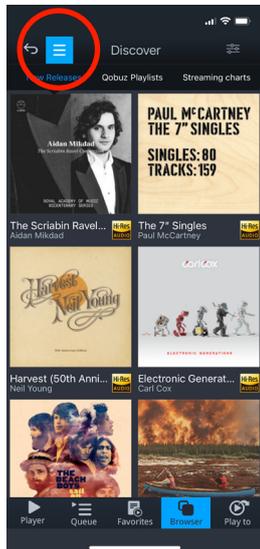
8. Click "Browse"



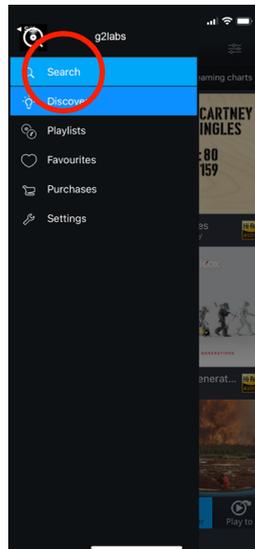
9. Choose your preferred streaming service and sign in with your credentials



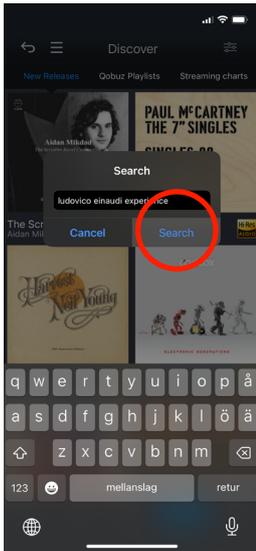
10. Click the menu icon



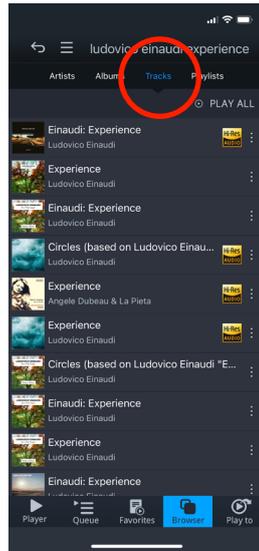
11. To search for music click "Search"



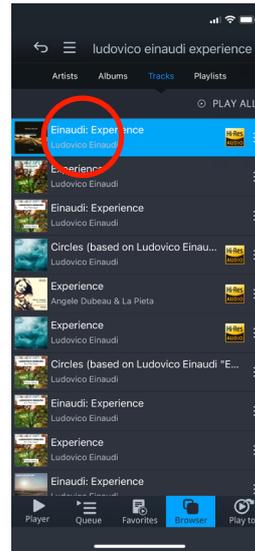
12. Write search criteria. Eg artist, album or title and click "Search"



13. Choose how to filter your result by Artis, Album, Tracks or Playlists



14. Choose one of the results to play



15. During play you can pause, skip, back, stop, change volume, etc.



16. Tip! Click on volume icon to change sensitivity of the volume slider



* Remark

mconnect Player is a third party software which can not be supported by G2 Labs.

This is a simplified guide to get started. mconnect Player app GUI can look slightly different depending on your handled unit and version of the app.

For more support and guides please visit the software developers website and official support:

<http://www.conversdigital.com>

<http://www.conversdigital.com/kor/product/product04.php>

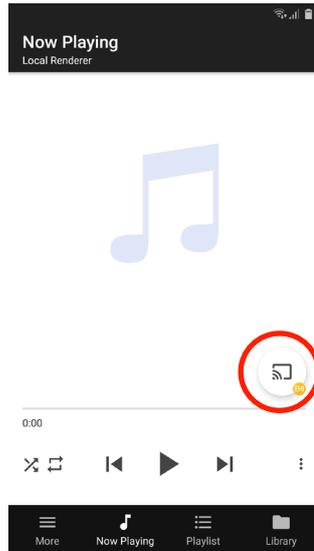
BubbleUPNP

Instructions to get started with BubbleUPNP Android app

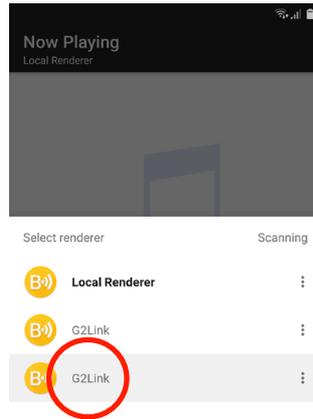
1. Start the app



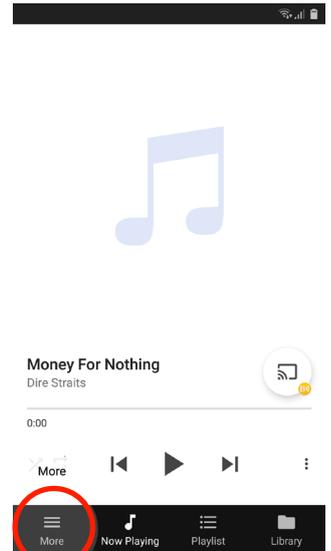
2. Click on the devices icon



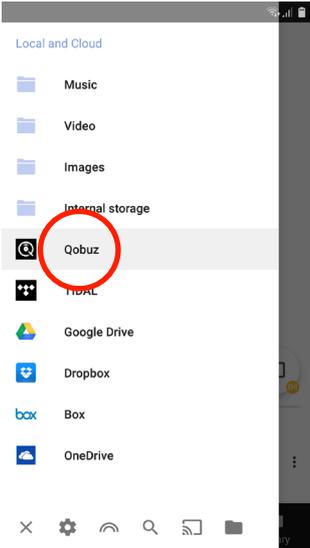
3. Select G2Link



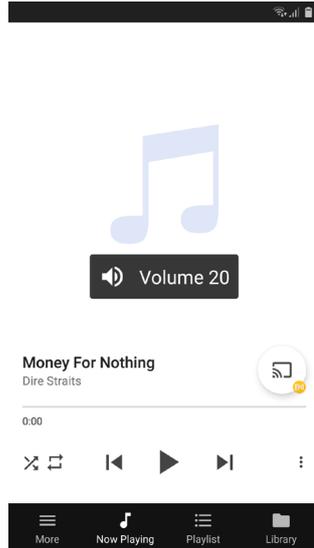
4. Click "More"



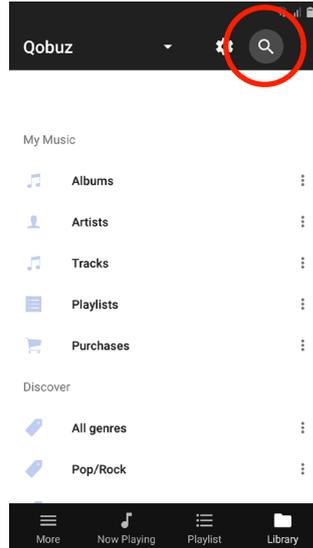
5. Choose your preferred streaming service and sign in with your credentials



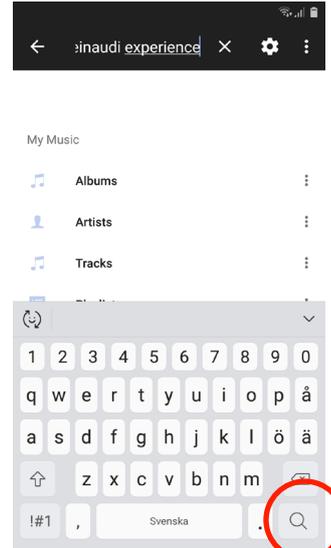
6. Use the physical volume buttons and check the volume level is not too loud



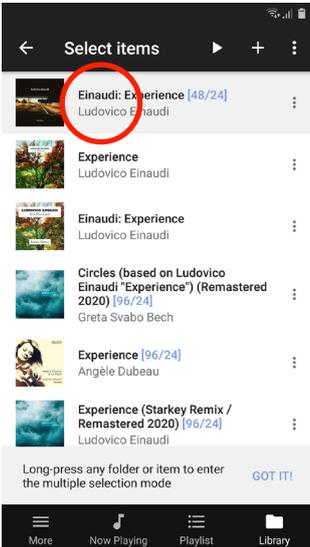
7. Click on the search icon



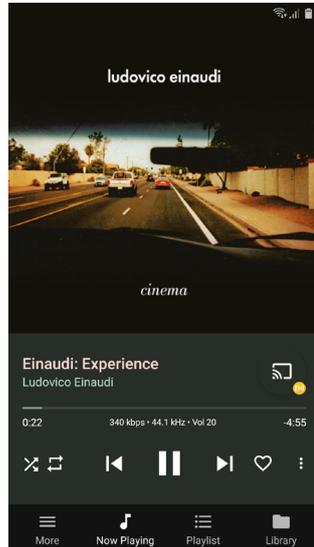
8. Write search criteria. Eg artist, album or title and click the search icon



9. Choose how to filter the results by Albums or Tracks and choose a result



10. During play you can pause, skip, back, stop, change volume, etc.



* Remark

BubbleUPNP is a third party software which can not be supported by G2 Labs.

This is a simplified guide to get started. BubbleUPNP app GUI can look slightly different depending on your handled unit and version of the app.

For more support and guides please visit the software developers website and official support:

<http://www.bubblesoftapps.com>

<http://groups.google.com/g/bubbleupnp>

<http://forum.xda-developers.com/showthread.php?t=1118891>



Audio renderer

G2Link DAC Streamer is the result from many years of development and each component, in terms of hardware and software, is carefully chosen.

G2Link audio renderer is running on Linux OS on a single board computer, which uses a Rockchip RK3308 processor.

The OS is a minimalistic Ubuntu compilation and our approach is to both support and use open-source code. The G2Link DAC Streamer is prepared with several rendering software. GMediaRender which supports UPnP/DLNA and Shairport Sync which supports Airplay. On top of that the G2Link DAC Streamer is Roon ready which in turn offers multiple protocols with a wide flexibility.

Since we use open-source we also provide the ability to SSH into G2Link DAC Streamer to give the ability for developers and DIY'ers to customize and develop the software.

Note that we support but are not responsible for bricked products. SSH is done on own risk.

In case a product is bricked we can offer our most updated firmware image and instructions how to re-install it.

SSH Credentials

Username: rock

Password: rock

Localisation of the IP adress can easily be done through any of the apps we recommend. Use the steps on the following page.

Firmware

We develop and improve our products continuously. This is an ongoing work and we will offer current and future firmware updates through the web link below.

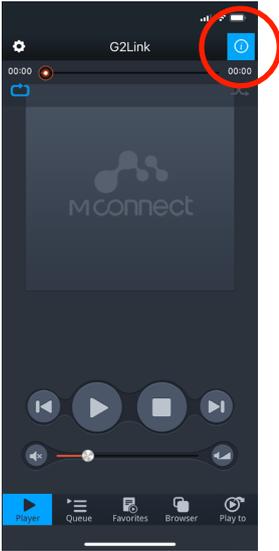
downloads.g2labs.org



Locate the IP address through mconnect Player

How to easily locate IP address of the G2Link DAC Streamer

1. Click on the info icon



2. The IP address will show here



Locate the IP address through BubbleUPNP

How to easily locate IP address of the G2Link DAC Streamer

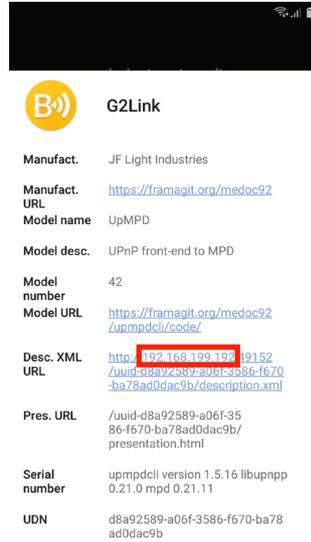
1. Click on the icon of your G2Link

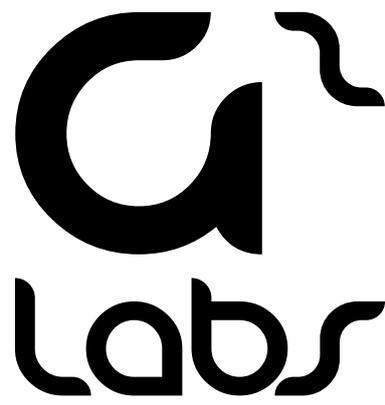


2. Click "Info"



3. The IP address will show here





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