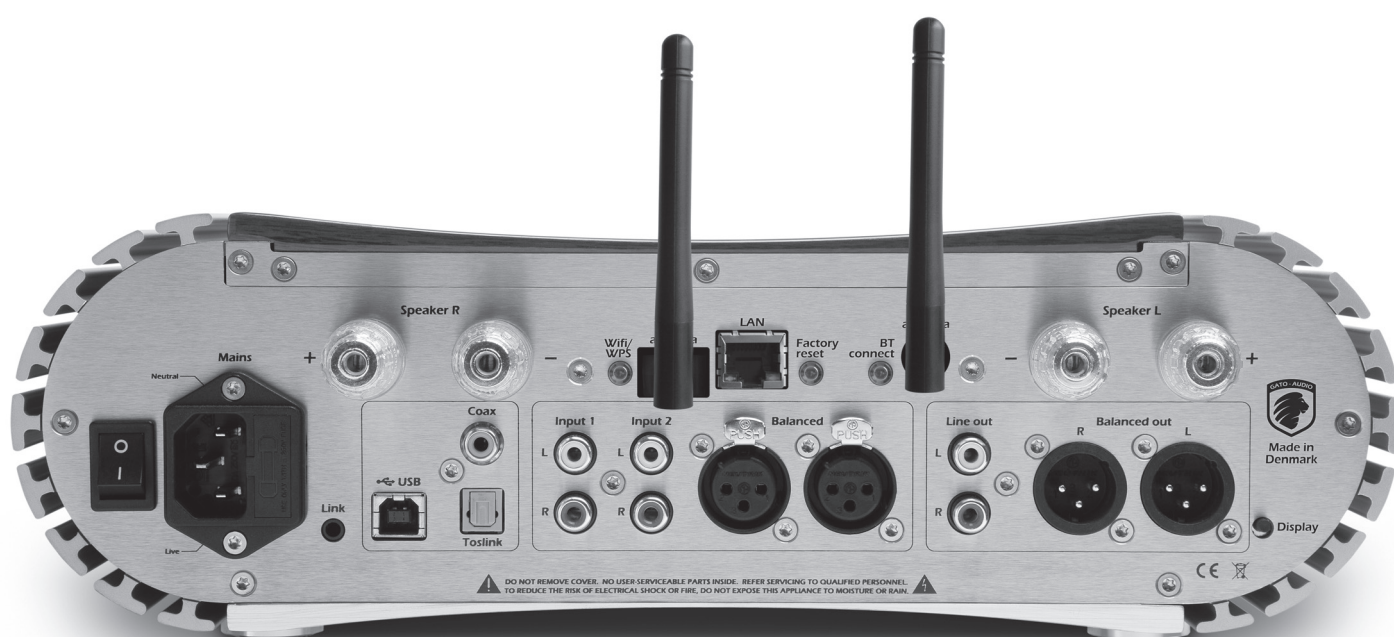




NPM

Network Player Module

User Manual

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Package contents

Following a Gato Audio product with an installed Network Player Module (NPM), please find these parts:

- 2 Antennas
- 1 USB Wi-Fi Dongle
- 1 Quick Start Guide

Overview

The Gato Audio DIA-250S, DIA-400S integrated amplifiers and the PRD-3S preamplifier are now available with the fully integrated NPM module. The NPM module compliments these high performance amplifiers with wired and wireless high end streaming capabilities. Controlled either directly by app or as an Roon endpoint.

Roon Ready

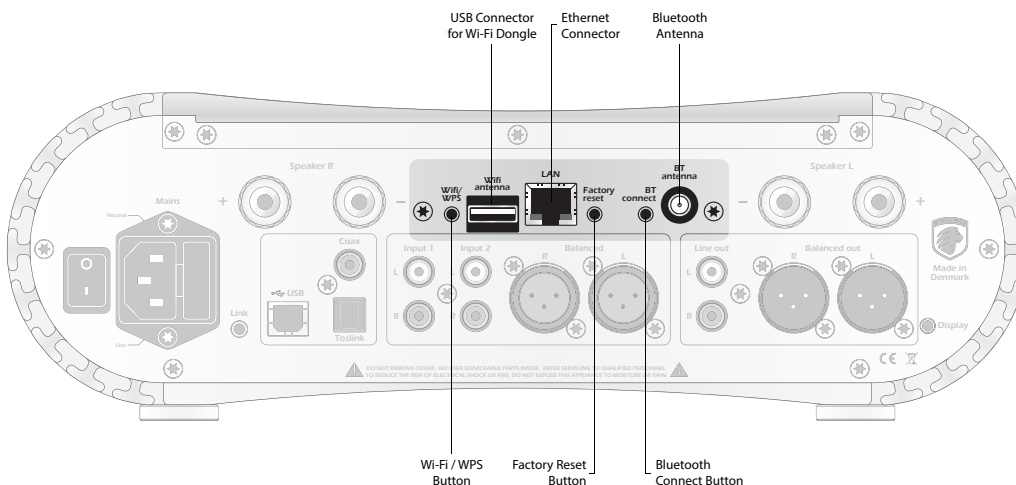
Roon is an incredibly rich and engaging way to browse and organize your music. It runs on most Mac, Windows, and Linux PCs, or on other products which include Roon Core. Being Roon Ready means that Gato Audio network players transparently discover and connect to Roon without any configuration, and bit-perfect audio is delivered from Roon to your network player. Together, Roon and Gato Audio deliver the power, flexibility, and performance of networked audio, with the easiest setup and highest reliability available. For further information about Roon please go to www.RoonLabs.com.

Bluetooth Upgrade

The Bluetooth input has been upgraded to version 4.2 aptX™ HD supporting 24Bit audio. This ensures your Bluetooth® wireless enabled device can deliver High Definition (HD) audio. It preserves sound data through the audio transmission, resulting in a “better-than-CD” listening experience.

The NET input - Volume Control

The NET input channel on your amplifier has its own separate volume control. This is done to protect your system, since the volume can be controlled by Roon and the Mconnect control app.



Button Light Patterns

Wi-Fi / WPS Button:

● Dark	Wi-Fi not connected
● Constant On	Wi-Fi connected
☀ Blinking	Wi-Fi setup network active
☀ Fast Blinking	WPS mode activated

Factory Reset Button:

● Dark	Streaming core inactive/booting
● Constant On	Streaming core active and ready

Bluetooth Connect Button:

● Dark	Bluetooth inactive
☀ Blinking	Bluetooth connected
☀ Fast Blinking	Bluetooth open for connection

Setting Up

Setting the NPM up for network audio streaming is fairly easy. You need to know some basics about connecting to your network using the name of your network (SSID) and password. You will also need to know how to use phone and/or tablet apps. The setup procedure is this:

- 1.** Connect the NPM to a network of your choice. We offer 3 ways of doing this.
- 2.** Use a phone and/or tablet app of your choice to select and stream music to NPM.
- 3.** To hear music from the network choose the NET input on your amplifier.

For accessing all of the features of the NPM, the Mconnect Control app is needed for your phone or tablet (see page 10 for download instructions). If you want to make use of subscription based streaming services, such as Tidal, Deezer, Qobuz or Roon, you will have to purchase these subscriptions separately. These are not included with the NPM.

If you want to use DLNA/UPnP features only there are lots of apps available for both IOS and Android that can be used. Feel free to download and experiment.

Connecting to a Network

Ethernet Cable

For the most easy and stable network connection we recommend establishing connection with an Ethernet cable.

Simply plug in the Ethernet cable into the socket on the back panel of the amplifier as shown on page 5. The opposite end of the Ethernet cable should be connected to a router/switch located on the network you wish to connect to.

To avoid network conflicts you should not install the USB Wi-Fi dongle into the NPM while connecting with an Ethernet cable.

Turn on the amplifier and select the NET input channel. Use the Mconnect Control app or Roon to stream music to the NPM.

Wi-Fi by WPS

If your router supports connection by WPS (Wi-Fi Protected Setup), this is the easiest way to connect to Wi-Fi.

Before setting up, make sure that the NPM is within range of the Wi-Fi router you want to connect to. To avoid any network conflicts also make sure you have not connected an Ethernet cable into the NPM while connecting to Wi-Fi.

- 1.** Screw one of the antennas on to the USB Wi-Fi dongle and insert the USB Wi-Fi dongle into the USB connector on the back panel of the amplifier as shown on page 5.
- 2.** Set your router into WPS mode (please consult the user manual of your router).
- 3.** Set the NPM in WPS mode by press and hold the Wifi/WPS button on the back panel of the amplifier for 7-10 seconds. After a short while the Wifi/WPS button will start fast blinking. Connection can take up to two minutes.
- 4.** Select the NET input channel on the amplifier when connection has been made. Use the Mconnect Control app or Roon to stream music to the NPM.

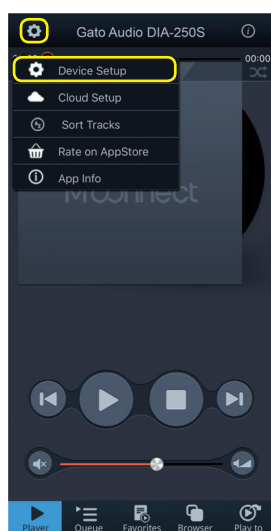
Wi-Fi by App

You can connect the NPM to your Wi-Fi network by using the Mconnect Control app available for IOS and Android (see page 10 for download instructions).

Before setting up, make sure that the NPM is within range of the Wi-Fi router you want to connect to. To avoid any network conflicts also make sure you have not connected an Ethernet cable into the NPM while connecting to Wi-Fi.



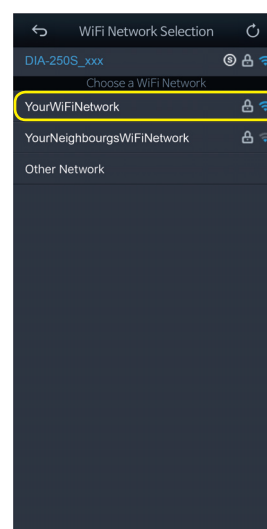
1. Screw one of the antennas on to the USB Wi-Fi dongle and insert the USB Wi-Fi dongle into the USB connector on the back panel of the amplifier as shown on page 5.
2. Turn on the NPM Wi-Fi setup network by press and hold the Wifi/WPS button on the back panel of the amplifier for 2-5 seconds. After a short while the Wifi/WPS button will start blinking.
3. Go to the Wi-Fi settings of your phone or tablet and connect to the Wi-Fi network of the NPM called (the model name of your amplifier) eg. "DIA-250S_xx". Password for this network is "password".
4. When connected, open the Mconnect Control app on your phone or tablet and select the "Setup" icon on the top left corner and then "Device Setup".
5. Select "Wifi Network Selection", then select and type in the password for the network you want the NPM to be connected to. The NPM will reset and connect to your Wi-Fi network. This will take about 40 seconds.
6. Select the NET input channel on the amplifier when connection has been made. Use the Mconnect Control app or Roon to stream music to the NPM.



Mconnect Control app:
Select the "Setup" icon on the top left Corner and then "Device Setup".



Mconnect Control app:
Select "WiFi Network Selection".



Mconnect Control app:
Select the network you want to connect to and enter your password.

Factory Reset

If you want to remove the Wi-Fi settings (SSID and password), you need to perform a Factory Reset. Press and hold the Factory Reset button on the back panel of the amplifier for 2-3 seconds. The NPM will then remove Wi-Fi settings and reset. This will take about a minute.

Connecting to Bluetooth

Before connecting the NPM to a Bluetooth device (your phone, tablet or computer), you need to screw in the antenna to the back of the amplifier where it says "BT antenna", as per the drawing on page 5. To hear music from Bluetooth choose the BT input on your amplifier.

Initial Connection

For initial connection press the "BT connect" button on the back of the amplifier once. Then go to the settings of the Bluetooth device (your phone or tablet) and connect to (the model name of your amplifier) eg. "Gato Audio DIA-250S".

Disable Bluetooth

To disable Bluetooth on the NPM press and hold the "BT connect" button on the back of the amplifier for 2-5 seconds. All connected Bluetooth devices should now be disconnected. To Enable Bluetooth again press and hold the "BT connect" button 2-5 seconds. All previously connected devices should automatically reconnect if they have Bluetooth enabled.

Reconnect

If you stopped the Bluetooth function on your phone or tablet, you will need to reconnect. Go to the settings of the Bluetooth device (your phone or tablet) and connect to (the model name of your amplifier) eg. "Gato Audio DIA-250S". Alternatively enable Bluetooth on your phone or tablet, then turn off your amplifier and turn it back on. The Bluetooth device should automatically reconnect.

Multiple Connections

The NPM Bluetooth supports multiple devices to be connected at the same time. While a device is connected, press the "BT connect" button on the back of the amplifier once. Then go to the settings of the new Bluetooth device (your phone or tablet) and connect to (the model name of your amplifier) eg. "Gato Audio DIA-250S". The first device has priority over the following devices.

The NPM Bluetooth stores up to 10 devices that have been connected. When it has stored 10 devices it will automatically make room for new by deleting the oldest device first.

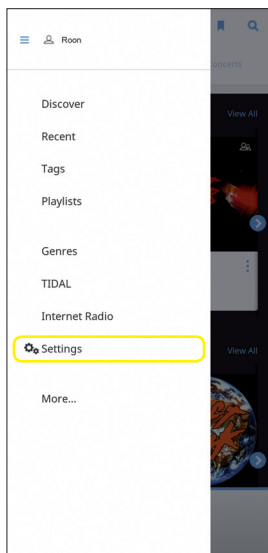


Enable Roon Ready Devices

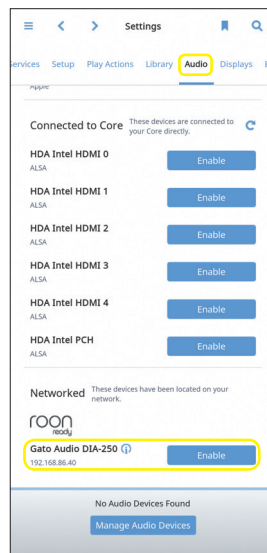
NPM is Roon Ready, which means that all you have to do is to connect the NPM to the same network as your Roon Core. Then open your Roon application on your phone, tablet or computer, choose "Settings" and "Audio" and your amplifier should be available for playback.

Make sure that you are not streaming music to the NPM by another app, while trying to connect to it in Roon.

For further information about using Roon please go to www.RoonLabs.com.



In Roon, go to Settings and choose Audio...

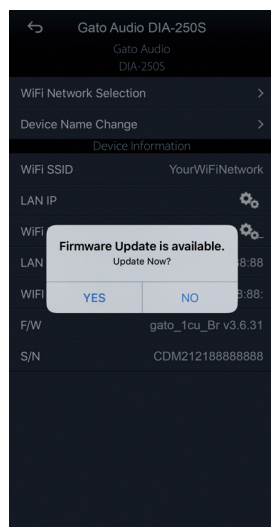


...scroll down and enable your Gato Audio device.

Firmware Update

NPM Firmware updates are performed from the Mconnect Control app (see page 10 for download instructions). In the Mconnect Control app, go to "Device Setup". From here, new firmware versions are announced and installed. We recommend you to do this once in a while to make sure that the firmware is up to date.

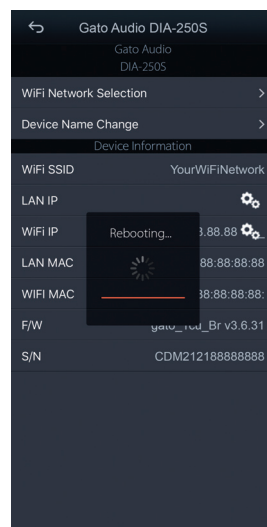
Please note! Do not interrupt the firmware update process by turning the amplifier off! Make sure the update is fully completed before turning off the amplifier.



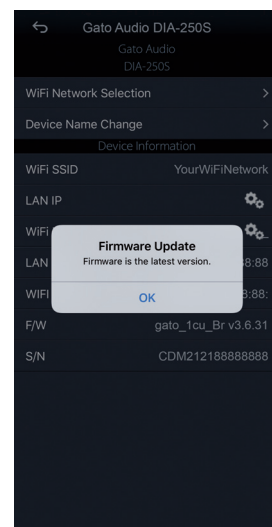
If a new firmware is available, you will be prompted in the Device setup screen.



The firmware will first download from a server, and then the update will start. This will take several minutes.



Just a little more patience. Do not turn off the amplifier until reboot has completed.



Update completed! Enjoy!

Mconnect Control App Guide

Download Mconnect Control and get Started

To be able to use all streaming features of the NPM, you will need to download the Mconnect Control app, published by ConversDigital Co., Ltd, available on Apple App Store and GooglePlay. Search for “mconnect control” should take you there. If you are using a tablet, you may want to download “mconnect control HD” app which allows using the app in landscape mode.

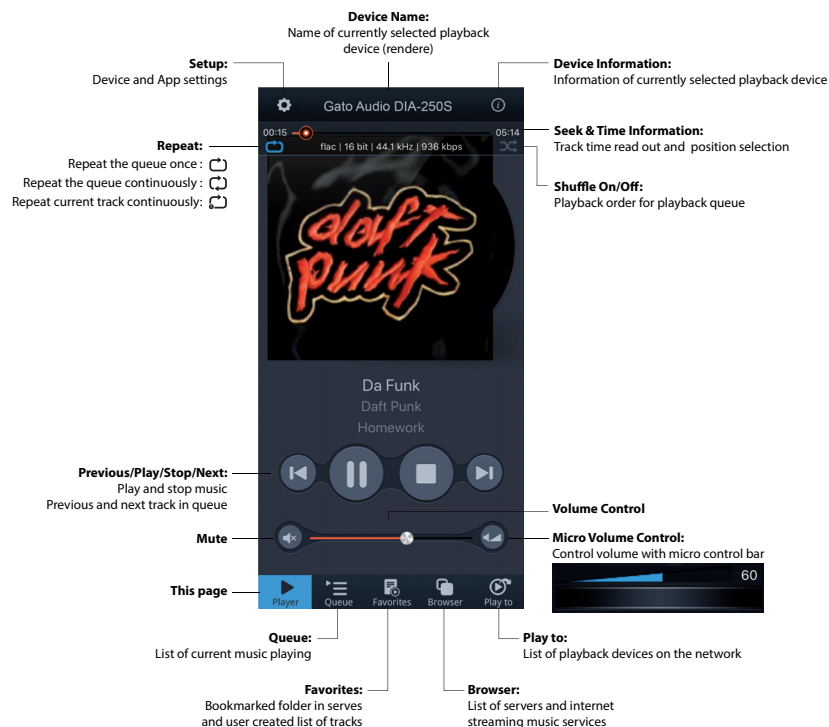
When downloaded make sure your phone or tablet is connected to the same network as the NPM.



Mconnect Control app icons

Player Screen Description

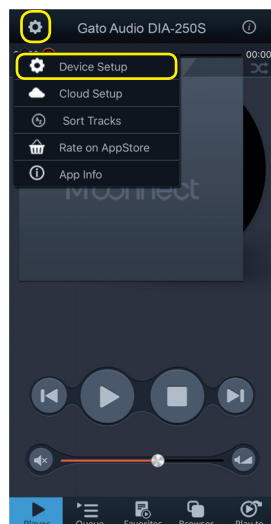
When opening the Mconnect Control app you will enter the “Player” screen of the app:





Device Setup

From the "Setup" menu on the "Player" screen you have several settings available:



Select Wi-Fi network

Device Name Change

Static IP Setting

Firmware Update

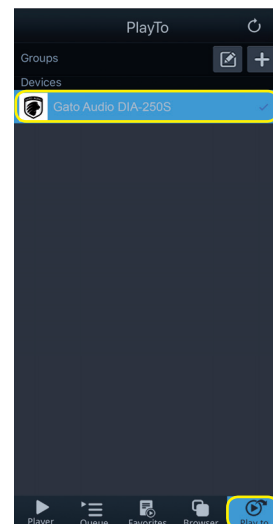
New firmware update will be notified and installed from here

From the "Player" screen press the "Setup" icon on the left corner and select "Device Setup". Then select the device you want to modify.

Select Playback Device

Select the "Play to" button and then choose the network player you want to stream music to.

Please note that the phone or tablet running the Mconnect Control app must be on the same network as the network player.



Select Music to Play

Select the "Browser" button to choose the source of the music you want to stream.

Internet Music:

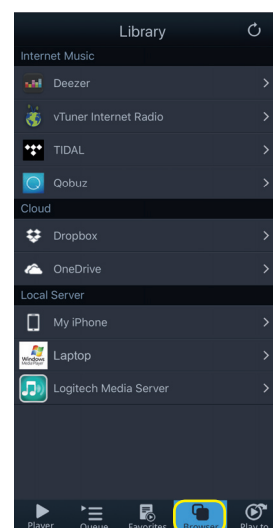
Tidal, Qobuz and Deezer streaming music services are integrated in the Mconnect Control app. If you want to make use of these services, you will have to purchase these subscriptions separately.

Cloud Storage:

Dropbox and OneDrive are integrated into Mconnect Control app. You will need a Dropbox and OneDrive account to access these servers.

Local Server:

DLNA/UPnP compatible network storages and PCs will be seen in "Local Server" list.

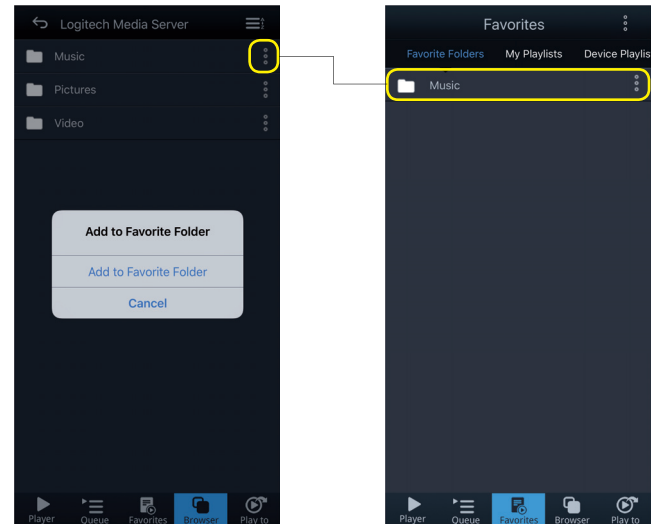


Managing Favorites and Playlists

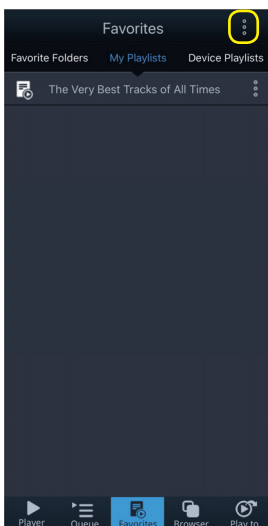
You can add folders in your servers into the “Favorite Folders” list. This can come in handy if you have several folders in your local network that you have to navigate to often.

Browse to the folder that you want to add to your “Favorite Folders” list and press the menu button to the right of the folder.

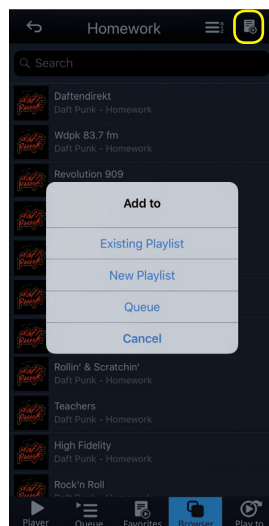
The folder can be removed from your “Favorite Folders” list again by the menu button in the favorite folders list.



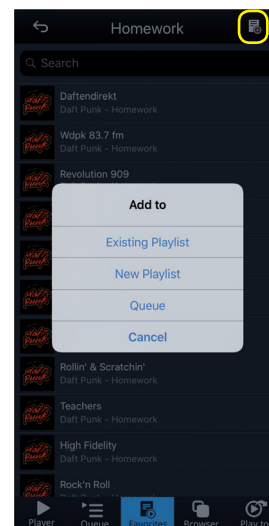
Mconnect Control can manage playlists with music files across different local servers. You can create playlists from several locations in the app:



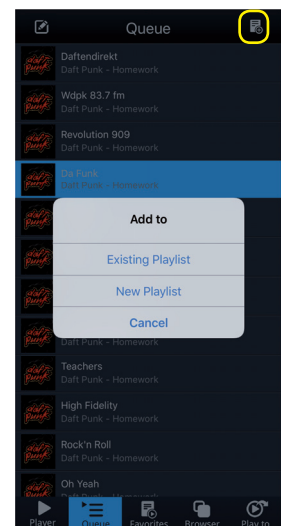
Favorites / My Playlists:
New playlists can be created by this menu button in the “My playlists” pane in “Favorites”.



Browser:
Tracks in Browser list can be added to a Playlist or to the play queue.



Favorite Folders:
Tracks in Favorite Folders list can be added to a Playlist or to the play queue.

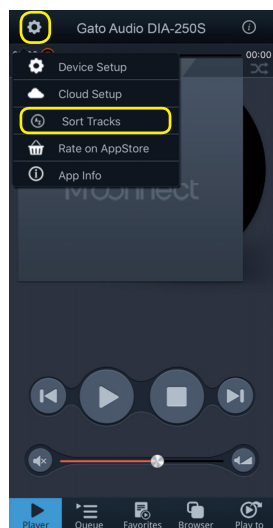


Play queue:
Tracks in Queue can be added to a Playlist.

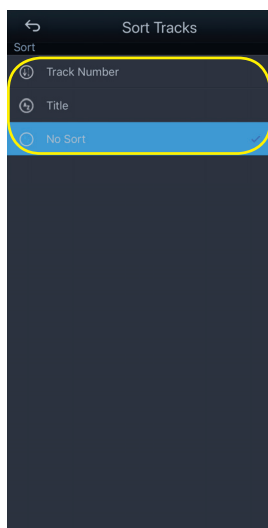


Sort Tracks

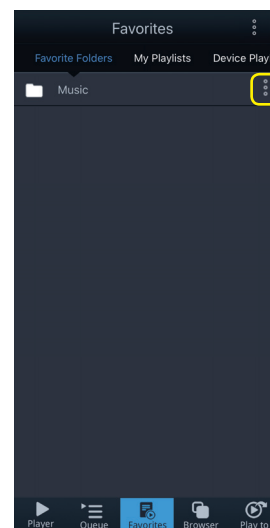
Music files in a folder can be sorted by track number and track name:



From the Player screen press the "Setup" icon on the left corner and select "Sort Tracks".



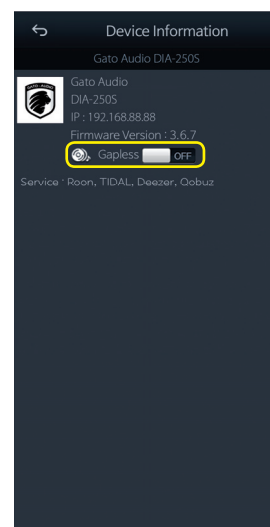
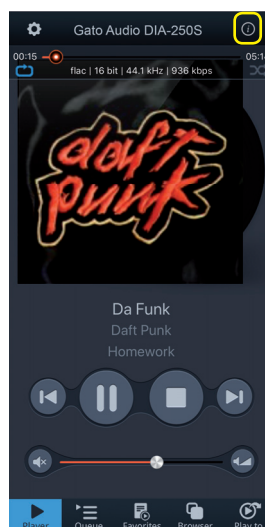
Track sorting option can also be applied folder by folder:



In the "Favorite Folders" list in the "Favorite" screen, there is sort option in the menu button.

Gapless Playback

The default setting for gapless playback is off. Turn it on from the Player screen: Press the "Device Info" icon on the upper right corner and turn it on.





Technical specifications

Resolution & Sample Rate	24bit / 192KHz
Connectivity	Wifi, Ethernet, Bluetooth, DLNA 1.5 & UPnP AV1.0, Roon Ready, Supports multi room
Integrated Internet Streaming Services	TIDAL, Deezer, Qobuz
Audio Format Support	MQA (Roon), AAC, AIFF, MP3, FLAC, WAV, WMA, Apple Lossless, OGG, Monkey's, Supports gapless playback
Dedicated Control App	iOS – UI for iPhone & iPad, Android – UI for phone & tablet
Network	Wireless: 802.11 b/g/n 2.4GHz, Cabled: Ethernet 10/100
WiFi Mode support	Client mode, Soft AP Mode (virtual router)
WiFi Setting options	WPS Push Button, Control app setup
Bluetooth features	Version 4.2, Supports aptX HD (24 bit, 48kHz)



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