
MiND 2

Streaming Network Music Player



Owner's Manual

M O O N
by SIMAUDIO

ATTENTION

Do not ingest the battery, Chemical Burn Hazard
The remote control supplied with this product contains a
coin/button cell battery.

If the coin/button cell battery is swallowed, it can cause
severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children.

If the battery compartment does not close securely, stop
using the remote control and keep it away from children.

If you think batteries might have been swallowed or placed
inside any part of the body, seek immediate medical
attention.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or another apparatus that produces heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for safety. If the provided plug does not fit into the outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. Unplug mains cord during transportation.
11. Only use attachments and accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power cord or plug has been damaged; liquid has been spilled or objects have fallen into the apparatus; or the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. No naked flame sources, such as candles, should be placed on the apparatus.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



FCC information for **MiND 2** Network Streaming Player with the **Qualcomm® aptX™ audio for Bluetooth** module and **MiND 2** Music Streamer module:

This unit contains Transmitter Module FCC ID : [SSSBC127-X](#) and Transmitter Module FCC ID : 2AJYB-S810. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



The lightning flash with the arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



Marking by the "CE" symbol (shown left) indicates compliance of this device with the EMC (Electromagnetic Compatibility) and LVD (Low Voltage Directive) standards of the European Community

Please read all instructions and precautions carefully and completely before operating your MiND 2 Network Streaming Music Player

1. **ALWAYS** disconnect your entire system from the AC mains before connecting or disconnecting any cables, or when cleaning any component. To completely disconnect this apparatus from the AC mains, disconnect the power supply cord plug from the AC receptacle.
2. The MiND 2 must be terminated with a three-conductor AC mains power cord which includes an earth ground connection. To prevent shock hazard, all three connections must **ALWAYS** be used. Connect the MiND 2 only to an AC source of the proper voltage; Both the shipping box and rear panel serial number label will indicate the correct voltage. Use of any other voltage will likely damage the unit and void the warranty
3. AC extension cords are **NOT** recommended for use with this product. The mains plug of the power supply cord shall remain readily accessible.
4. **NEVER** use flammable or combustible chemicals for cleaning audio components.
5. **NEVER** operate the MiND 2 with any covers removed. There are no user-serviceable parts inside. An open unit, especially if it is still connected to an AC source, presents a potentially lethal shock hazard. Refer all questions to authorized service personnel only.
6. **NEVER** wet the inside of the MiND 2 with any liquid. If a liquid substance does enter your MiND 2, immediately disconnect it from the AC mains and take it to your MOON dealer for a complete check-up.
7. **NEVER** spill or pour liquids directly onto the MiND 2.
8. **NEVER** block air flow through ventilation slots or heatsinks.
9. **NEVER** bypass any fuse.
10. **NEVER** replace any fuse with a value or type other than those specified
11. **NEVER** attempt to repair the MiND 2. If a problem occurs contact your MOON dealer.
12. **NEVER** expose the MiND 2 to extremely high or low temperatures.
13. **NEVER** operate the MiND 2 in an explosive atmosphere.
14. **ALWAYS** keep electrical equipment out of reach of children.
15. **ALWAYS** unplug sensitive electronic equipment during lightning storms.
16. **WARNING:** Do not expose batteries or battery pack to excessive heat such as sunshine, or fire or the like.

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Date Code: 20180622

Introduction

Thank you for selecting the **MOON MiND 2** Streaming Network Music Player as a part of your music system. This component has been designed to offer state-of-the-art high-end performance in an elegant package, while retaining all the sonic hallmarks on which Simaudio has made its reputation. We have spared no effort to ensure that it is amongst **the finest** Streaming Network Players available in its class. We have been building high-performance audio equipment for over 37 years, and the know-how gained through our cumulative experience is an important reason why the **MiND 2** is so musically satisfying.

The **MOON MiND 2** is a **Roon Ready** device, which means it can also be used with Roon software. As soon as the network setup (Ethernet or WiFi) is completed, Roon system can be used to control the unit. Please consult Roon (<https://roonlabs.com/>) for more information on the Roon software usage and installation.

The **MOON MiND 2** includes MQA pass thru technology, which enables you to play back MQA audio files and streams to external MQA DACs which in turn will deliver the sound of the original master recording. It is manufactured under licence from MQA Limited. For more information on MQA please consult : <http://www.mqa.co.uk>.

The performance of your **MiND** will continue to improve during the first 400 hours of listening. This is the result of a "break-in" period required for the numerous high quality electronic parts used throughout this streaming network music player.

Before setting up your new **MiND 2**, we encourage you to please read this manual thoroughly to properly acquaint yourself with its features. We hope you enjoy listening to the **MiND 2** as much as the pride we have taken in creating this fine audio product. We understand the power and emotion of music and build our products with the goal of faithfully capturing these elusive qualities.

The information contained in this manual is subject to change without notice. The most current version of this manual is available on our official website at <http://www.simaudio.com>

Your **MiND 2** Streaming Network Music Player incorporates many significant design features to achieve its "world class" level of performance. This is an abbreviated list of the more important features:

MiND Streaming Module Features:

UPnP Renderer (Universal Plug & Play).
DLNA 1.5 Compatibility.
Online content from TuneIn, Tidal, Qobuz and other "Music Services" upgrades.
Local Playlists, Gapless Playback & Silent track scanning.

MiND Application Control Features:

iPhone, iPad, iPod touch and Android compatible control software.
Zone selection and Permanent zone naming.
Independent control for each zone with SimLink™ equipped MOON Preamplifier or Integrated Amplifier.

Three (3) digital outputs (AES/EBU, SPDIF and TosLink) allowing for a connection to virtually any digital-to-analog converter.

Qualcomm® aptX™ audio support allows for better quality audio over Bluetooth.

Front panel LED indicators for (i) input signal PCM sampling rate and (ii) the active input / Bluetooth pairing.

IR input for external control with aftermarket infrared remote control receivers.

SimLink™ controller ports for 2-way communications with other MOON components .

Bluetooth® Qualcomm® **aptX™** integration.

Simple **wifi connectivity** using Bluetooth®.

Full-Function **CRM-3 remote control**.

Rigid chassis construction to minimize the effects of external vibrations.

Designed to be **powered up at all times** for optimal performance.

Unpacking

The **MiND 2** should be removed from its box with care.

The following accessories should be included inside the box with your Digital-to-Analog Converter:

- ✓ *AC power cable*
- ✓ *'CRM-3' remote control with two 'CR-2032' batteries*
- ✓ *'SimLink™' cable with 1/8" mini plug terminations on each end*
- ✓ *wifi antenna (2x)*
- ✓ *This owner's manual*
- ✓ *Warranty and product registration information (USA and Canada only)*

Once the **MiND 2** is unpacked, inspect it thoroughly and report any damage to your dealer immediately. We suggest that you keep all of the original packaging, storing it in a safe, dry place in case you're required to transport this product. The customized packaging is specially designed to protect the **MiND** from any potential damage during transit.

Please write the serial number of your new **MiND 2** in the space provided below for future reference.

Serial Number

Installation & Placement

The **MiND 2** requires only minimal ventilation to maintain an optimum and consistent operating temperature. However, you should avoid placing it near a heat source as this could compromise the streaming network music player's performance and reliability. As well, it should be placed on a solid level surface. The **MiND** uses toroidal transformers; even though they are well shielded, you should not place the Digital-to-Analog Converter too close to source components sensitive to EMI, such as a turntables.

screwing them into the sockets labelled "WIFI ANT" and "BT ANT", respectively.

Please visit the MiND page on our website please visit our website to vision videos on setup and usage of the application.

You must install both the included wifi antenna (longer) and bluetooth antenna (shorter) on the back panel by

Front Panel Controls



Figure 1: MiND 2 Front panel

The front panel will look similar to Figure 1 (above). The “Standby” button disengages all internal circuitry from the power supply. When switching back from “Standby” to the “on” mode, the selected ‘input’ will be memorized from the previous listening session. The blue indicator LED turns off when the **MiND 2** is in “Standby” mode.

The button labeled “Input” allows you to toggle between the 2 types of inputs: Bluetooth and Network (Ethernet and wifi). There are two (2) corresponding red LED’s located at the top left of the front panel, that when illuminated, will indicate the currently selected type of input: “BT” for Bluetooth and “NET” for network.

There are four (4) LED’s on the left side of the faceplate that indicate the PCM sampling rate of the source material currently being played:

| PCM Sampling Rate | Illuminated LED(s) |
|-------------------|--------------------|
| 44.1kHz | 44.1 |
| 48.0kHz | 48 |
| 88.2kHz | 44.1 & 2X |
| 96.0kHz | 48 & 2X |
| 176.4kHz | 44.1 & 4X |
| 192.0kHz | 48 & 4X |

The button labeled “BT” activates and deactivates the Bluetooth discovery mode. When the **MiND 2** is in discovery mode, you can pair a smart device (iPhone, iPad, Android, etc.) to the **MiND 2**. To begin, press the “BT” button and the corresponding “BT” LED will begin to blink continuously until pairing between your smart device and the **MiND 2** is successful or the 30 second time limit has been exceeded. When “MOON MiND...” appears in the Bluetooth device list of your smart device, simply select it; the “BT” LED will stop blinking to confirm that pairing is successful. This procedure only needs to be performed once for each smart device.

Note: The MiND 2 can play files of higher sampling rate than 192kHz, such as 32-bits/384kHz. However when these files are played, the player resample the signal for compatibility with the output connection, which is 24bits/192kHz.

When playing DSD file, SPDIF and AES-EBU connector will output DSD-DOP signal and a compatible DSD-DOP DAC must be used to decode this signal. In this situation the LEDs 44.1 & 4X will be lit to represent the DOP frequency used.

The **MiND 2** is capable of processing a PCM digital signal at any one of the following sampling rates: “44.1”, “48.0”, “88.2”, “96.0”, “176.4” and “192.0” (all in kHz)

Rear Panel Connections

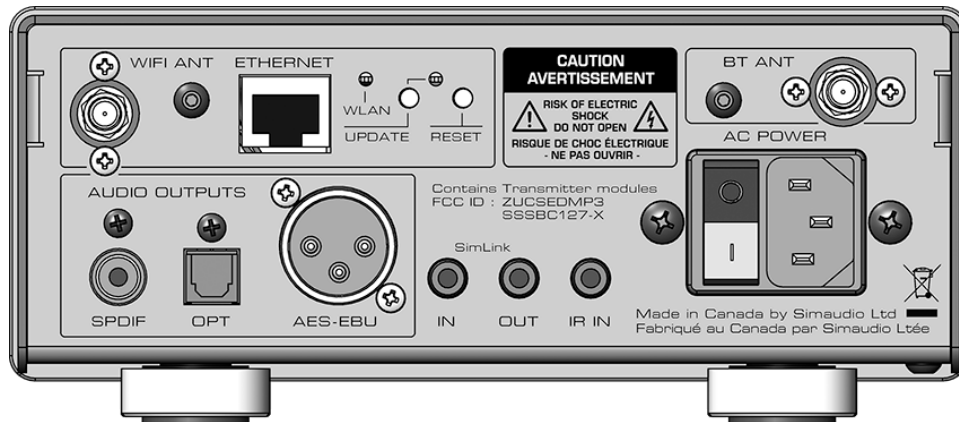


Figure 2: MiND 2 Rear panel

The rear panel will look similar to Figure 2 (above). The top left section is where you will find two MiND module inputs: “WIFI ANT” for a wifi antenna socket and “ETHERNET” for a RJ45 ethernet cable. This is followed by the WLAN status LED, a recessed “UPDATE” button with a corresponding LED for MiND firmware updates (refer to Appendix B) and a recessed “RESET” button for the hardware reset function (refer to Appendix C). The top right section is where you will find the socket for the bluetooth antenna.

There are three (3) Digital “Audio Outputs” as follows: A SPDIF output on an RCA connector which will benefit most from cables with an impedance of 75Ω; An optical output using Toslink connectors labelled “OPT” ; and finally a 3-pin XLR connector for an AES/EBU output which will benefit most from a cable with an impedance of 110Ω. Don’t hesitate to use high quality digital interconnect cables*.

The right side of the rear panel has various connectors for external communications. The **MiND 2** is equipped with two (2) “SimLink™” connectors labeled “in” and “out” on 1/8” mini jacks. Please refer to the next section entitled SimLink™ for more details. Next, there’s a 1/8” mini-jack input, labelled “IR IN”, for use with aftermarket infrared remote control receivers.

On the far right side is the main power switch (“0”=off, “1”=on) and the IEC receptacle, labeled “AC Input” for the included AC power cord. Connect the supplied AC power cable to the IEC receptacle. Ensure that the AC wall outlet you use has a functioning ground. For the best sonic performance, it is preferable that you plug your **MiND 2** directly into a dedicated AC outlet and avoid using an extension cord.

* Please speak with your MOON Authorized Retailer about the benefits of high quality cables for your system.

SimLink™

One of the main features of SimLink™ on the **MiND 2**, involves the “Standby” function. By pressing down and holding the “Standby” button for 2 seconds on the **MiND 2**, all other **MOON** components connected via the SimLink will go into “Standby” mode along with the **MiND 2**. The same logic applies when switching from “Standby” to active mode.

SimLink™ offers many features; Mute, Standby, Digital input selection, and volume adjustments (with MOON preamplifiers and integrated amplifiers) all via the “MiND” app running on your Apple or Android device.

If you are using either the 340i Integrated Amplifier with the DAC option or the 350P Preamplifier with the DAC option, you should make a SimLink™ connection between the MiND’s SimLink™ out and the 340i / 350P SimLink™ in. When you press the ► (play) button on the “MiND” App, the 340i / 350P will automatically switch to the digital input that you defined as the MiND input. As well, you can use the MiND App’s volume up, volume down and mute functions to adjust the volume level on 340i / 350P.

If you are using either a 280D or 380D DAC that is **not** equipped with a MiND module, when you press the ► (play) button on the "MiND" App the DAC will automatically switch to the digital input that you defined as the MiND input. As well, if you have the variable output version of the 380D you can use the MiND App's volume up, volume down and mute functions to adjust the volume level.

The connection rules for the SimLink™ are very straightforward. You must always connect the supplied cable between one component's "SimLink™ Out" jack and another component's "SimLink™ In" jack. There is no master component in a SimLink™ chain; no one particular component operates as the main communications controller. If you are using your **MiND 2** with an older MOON product such as a P-7, P-8 or i-7, you will need to update the software of the older product to allow for complete SimLink™ functionality. Contact your retailer for further details.

Operating the MiND

We recommend leaving your **MiND 2** powered up at all times to maintain optimal performance. When you plan on being away for a few days, it may not be a bad idea to power it off your.

Turning on your MiND 2 for the first time

Prior to turning the Streaming Network Player on for the first time, make sure that every cable is properly connected to avoid any problems. Flick the main rocker switch, located on the rear panel, labeled "POWER" to the '1' (on) position. Next, briefly press the push button labeled "Standby" located on the front panel. You will hear a very faint click sound confirming that everything is in order. The blue LED on the front panel will illuminate, indicating that the **MiND 2** is now powered up and ready for use.

On and Off Sequence

To avoid having any annoying noises (ie. "thumps" and "pops") emanate from your speakers when powering your **MiND 2** on or off, you should always power up your **MiND 2** before powering up your preamplifier, integrated amplifier or power amplifier. As well, always power down your **MiND 2** after powering down your preamplifier, integrated amplifier or power amplifier.

Remote Control Operation

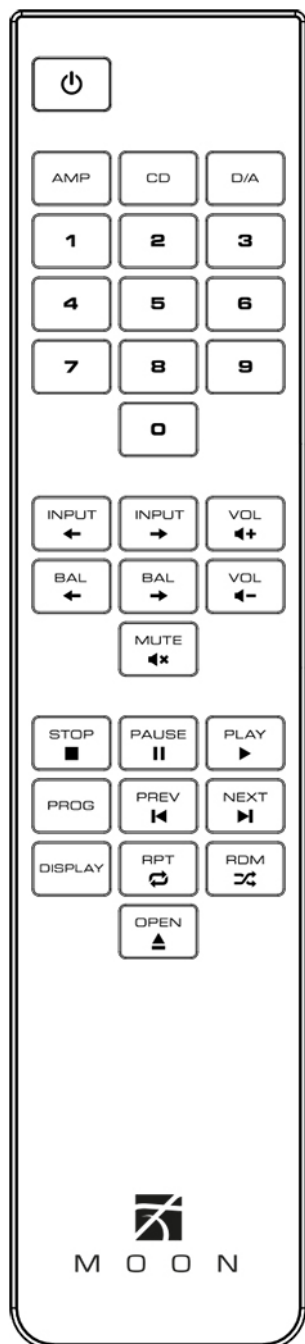


Figure 3: CRM-3 Remote Control

The **MiND 2** Network Player uses the '**CRM-3**' full-function remote control (figure 3). It operates on the Philips RC-5 communication protocol and can be used with other MOON components.

The '**CRM-3**' remote uses two CR-2032 batteries (included). To install them, simply slide the back plate off; insert the batteries in the correct direction and then replace the back plate.

To engage the '**CRM-3**' remote for use with the **MiND 2**, you must first press the button labeled **D/A**.

The **⏻** (Power) button, located on the upper left, will switch the Digital-to-Analog Converter to either 'Standby' or 'On' mode.

The 2 buttons labeled **← INPUT →** allow you to toggle between the 2 types of inputs: Bluetooth and Network (Ethernet and wifi). It functions the exact same way as the "Input" button on the front panel. Pressing and holding down this button results in only a single change to the selected input.

The **MUTE** button turns off the output volume. Pressing the "Mute" button a second time will reinstate the output volume level back to its current setting.

- Pause the track currently playing in the MiND QUEUE.
- ▶ From the paused position, resumes playback of the paused track in the MiND QUEUE or from the stopped position begins playback from the top of the MiND QUEUE.
- Stop the track currently playing in the MiND QUEUE and resets position to the top of the MiND QUEUE.
- ◀ Go back to previous track in the MiND QUEUE.
- ▶ Skip forward to next track in the MiND QUEUE.

When your selected input is Bluetooth® with a paired smart device (iPhone, iPad, Android, etc.) that is playing music, you may be able to use the above (five) 5 buttons on the **CRM-3** to navigate the music stored on your smart device. This is dependant on both the App and the smart device, as there may be compatibility issues.

NOTE: The buttons labelled **← BAL →** don't affect the operation of the **MiND 2**.

Remote operation with multiple MOON components

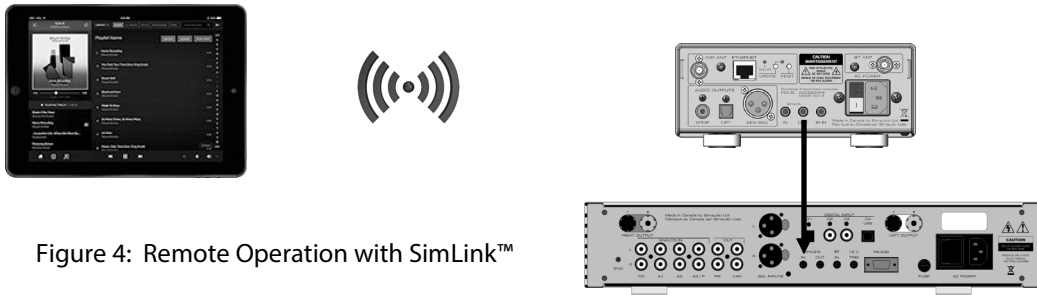


Figure 4: Remote Operation with SimLink™

In figure 4 we have a **MiND 2** connected to a **340i** Integrated Amplifier via their respective SimLink™ ports (using a 1/8" mini-jack cable). When you launch the MiND App on your Apple smart device and select this system's ZONE, the **MiND** and **340i** will both turn on. As well, the **340i** will automatically switch to the digital input that is connected to the MiND. To shut down the system, press "Off" for this ZONE in the MiND app.

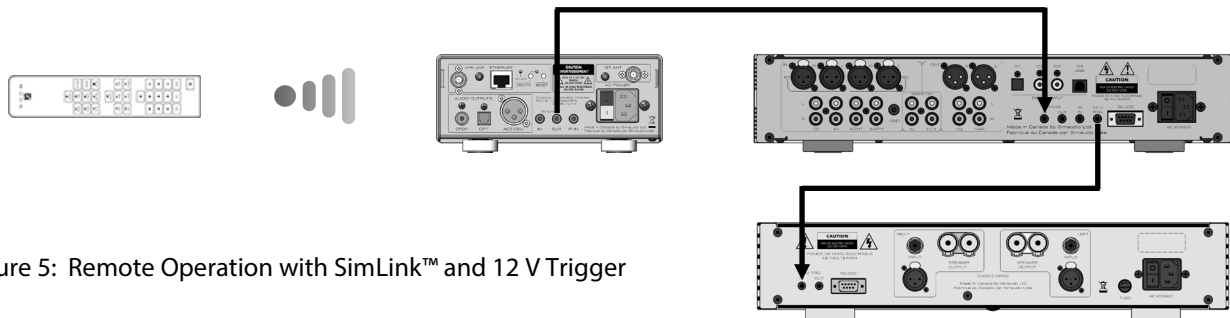


Figure 5: Remote Operation with SimLink™ and 12 V Trigger

In figure 5 we have a **MiND 2** connected to a **350P** Preamp with optional DAC via their respective SimLink™ ports (using a 1/8" mini-jack cable), and the **350P** is connected to a **330A** Amplifier via their respective 12V triggers (also using a 1/8" mini-jack cable). When you turn on the **MiND 2** via remote control or by pressing & holding its Standby button, both the **350P** and **330A** will turn on automatically. The same rule applies when you put the **MiND 2** into Standby mode.

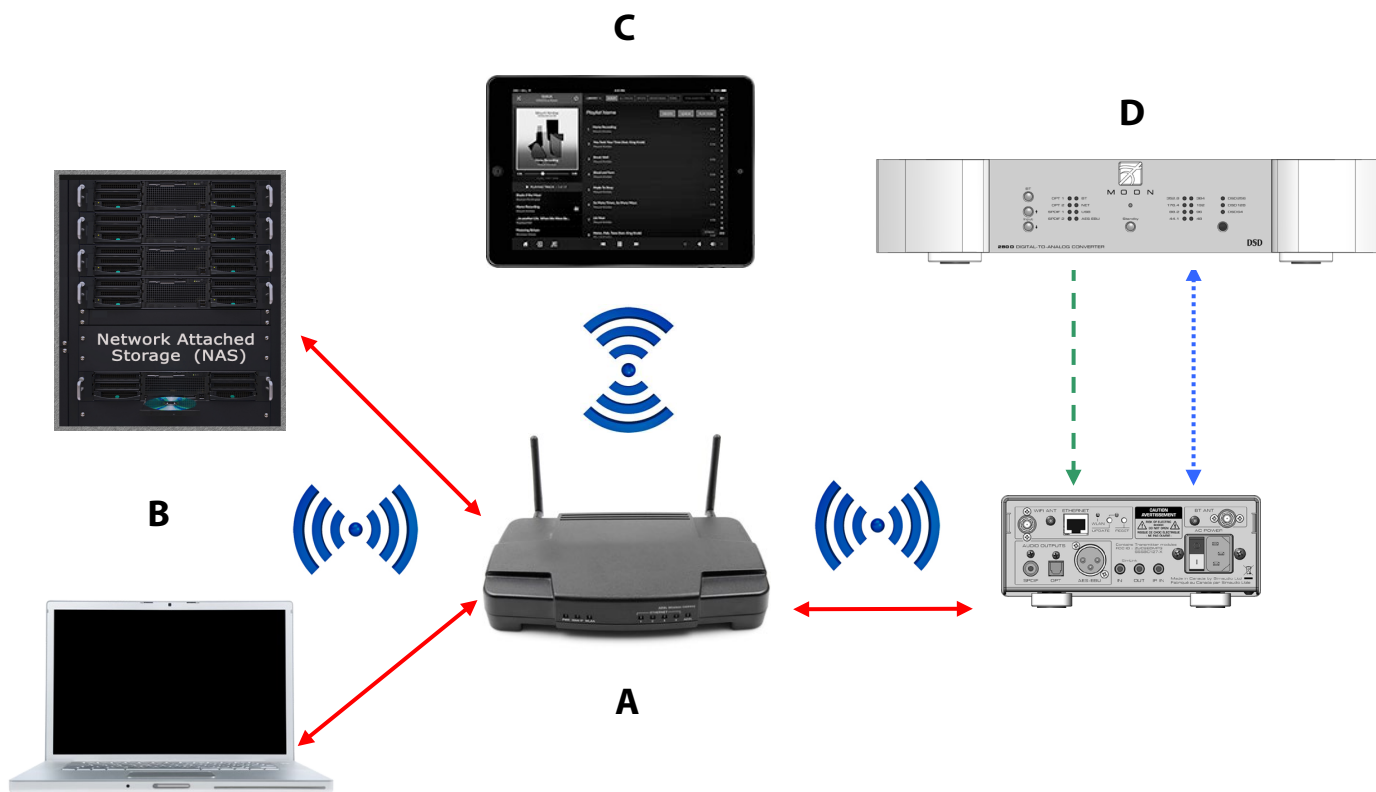
Specifications

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Supported file formats | WAVE, FLAC, FLAC HD, AIF, AAC, ALAC, MP3 (vbr/cbr), MQA, DSD(.dsf, .dff), WMA-9 and OGG Vorbis |
| PCM Bit-depth range | 16 - 24 bits |
| PCM Sampling Frequency Rates | 44.1 - 192kHz |
| Inputs | 100Base-T RJ45 Ethernet interface, IEEE 802.11 b/g/n wifi interface, Bluetooth with Qualcomm® aptX™ audio support |
| Digital Outputs (3) | AES/EBU , S/PDIF and TosLink |
| Encryption support | WEP, WPA and WPA2 wifi. |
| Remote Control | Full-Function CRM-3 |
| Power Consumption @ idle | 10 W |
| AC Power Requirements | 120V / 60Hz or 240V / 50Hz |
| Shipping Weight | 7lbs / 3.1 kg |
| Dimensions (W x H x D, inches / cm) | 7.0 x 3.0 x 11.0 / 17.8 x 7.6 x 28.0 |



Fuse Replacement: 120V version uses a 0.2A slow blow (5 x 20mm size)
230V version uses a 0.1A slow blow (5 x 20mm size)

MiND Setup Guide (Appendix A)



The above diagram depicts the various components that are required and how they must be connected for proper operation of the **MiND 2 Streamer Network Music Player**; You will need the following:

- A.** A router with wireless (wifi) capability
- B.** Computer based music files stored on a "Network Attached Storage" (NAS) device or a computer
- C.** An iPad, iPhone, iPod Touch or Android hand held device
- D.** A Digital-to-Analog Converter with SPDIF, AES/EBU or Toslink inputs (MOON 280D shown)

Legend: ↔ Ethernet connection
- - - - -> Digital Audio Signal
⋯⋯⋯> SimLink

How it all works:

Like any computer-based network, the router acts as the hub for the entire network. The main reason why it is mandatory that your router be wifi capable is for the tablet - Apple or Android to communicate and control the **MiND**. A tablet cannot connect to a network any other way. However, if you wish (or if you have no choice) to maintain a wireless connection between the computer or NAS and the router, this may have an effect in steady and proper signal transmission of music files, depending on the distance between the router and the computer/NAS, physical obstructions such as thick walls, and other factors. A wireless connection is especially likely to have an effect if listening to high-resolution (24-bit) music, whereby dropouts may be noticed. It is therefore strongly recommended to have a wired connection between the computer/NAS and your router.

Before starting the setup, verify the following:

(i) Your tablet can connect to the network broadcasted by your wireless router. (ii) Perform a firmware update on your MiND hardware; You can do this using the MOON MiND Controller app (Zone Settings menu), refer to the next section in this manual details or watch this youtube video: <https://www.youtube.com/watch?v=9Ug8POQftIA> (iii) Music server software exists on your NAS (or computer) and is correctly set up for the music on the hard drive; We recommend Asset UPnP from illustrate for Windows and Apple MAC OS based computers: <http://www.dbpoweramp.com/asset-upnp-dlna.htm> (iv) Your music files have been properly tagged with accurate meta-data information. (v) Your An iPad, iPhone or iPod Touch or Android hand held device has the latest version of the “MOON MiND Controller” app installed, available only at the Apple App Store or Google Play store.

Connecting all the components together:

Referring to the diagram on the previous page, connect your computer/NAS to one of the RJ45 ethernet connectors on your router, unless you plan on using a wireless connection. Ensure that this connection is properly discovered and configured by your computer/NAS. Install the wifi antenna to the rear connector of the **MiND 2** if you plan to stream music wirelessly. Now connect the **MiND 2** to the router using an ethernet cable. Power up the MiND via the rear panel rocker switch (**NOTE:** It is **critical** that you power up the **MiND 2** after the Ethernet cable is connected, not before!). Finally, connect the digital output of the **MiND 2** to the digital input of your DAC. You can use more than one digital output simultaneously, if desired, depending on your system setup.

Using the MiND 2 wired via Ethernet:

Once the above connections are made and your **MiND 2** is operational, you should be ready to stream music. Start up the **MOON MiND Controller** app, and wait until the app discovers your **MiND 2** on the network (may take up to 30 seconds). Next, tap on the “**MiND**” you see in the zone view; then you will see the name of your computer/NAS. Tap on that and you can then browse your music. You can give the MiND-xx-xx-xx a name (the xx-xx-xx characters you see next to the word **MiND** refer to the last six characters of your unit’s specific MAC address). You can change the name in the network settings, described below. Regarding other features of the app, please consult the **MiND App User Guide**, available on the MiND page of our website at <http://www.simaudio.com>

Using the MiND 2 wirelessly via wifi:

There are two different methods for configuring the **MiND 2** for wifi operation. Either way, you will need to have your SSID (network name), passphrase (network key) and encryption method (type of security) handy to set this up. We cannot help you determine these parameters if you do not have them – you will have to contact your network administrator.

Setup Method 1: Using Bluetooth BLE technology on your hand-held smart device with the MiND 2; **(1)** Once your **MiND 2** operational ensure that the Bluetooth feature is enabled on your hand-held smart device (IOS or Android) **(2)** Launch the **MOON MiND Controller** app on your hand-held device and wait for a device named “Unconfigured **MiND 2**” to appear in the device list. **(3)** Tap on the “Unconfigured device” and then on “configure” in the pop window that will appear. **(4)** Change the “MiND-xx-xx-xx” name to something meaningful like “MiND Living Room”. **(5)** Select the wifi network you want to connect to. The network on which your mobile device is connected should already be selected by default. **(6)** Enter the password for this wifi network (If necessary, you can go to “Advanced Settings” and change IP parameters; for example static IP configuration). **(7)** Tap on “Save”. **(8)** Within 30 to 60 seconds the **MiND** device should reappear in the device list with the name you assigned to it. The **MiND 2** is now ready for use via wifi.

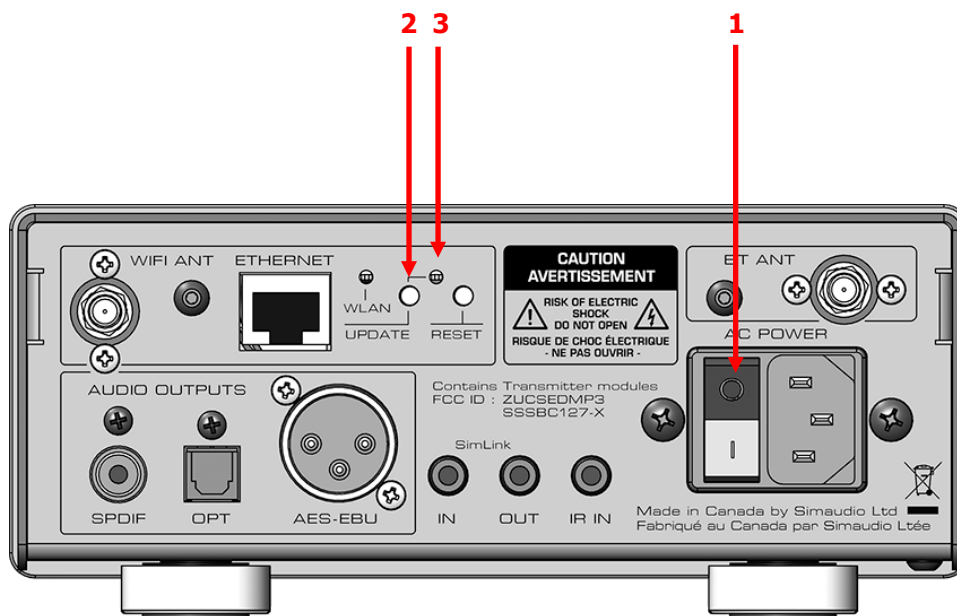
Important Considerations: (i) Compatible devices: iPhone 4s and above; iPad 3rd generation and above; iPad mini – all generations ; iPod touch 5th generation and above; Android 5.0 with “Low Energy Bluetooth” and above. (ii) The unconfigured MiND device will appear on the **MOON MiND Controller** app for ONLY the first 30 minutes after being taken out of standby. If you miss this 30 minute window, put the MiND device into standby and back into operational mode and it reappear again as “Unconfigured MiND”. (iii) If your wifi network name or password changes, you will need to power down and power on your **MiND 2** device via the rear panel rocker switch. The **MiND 2** device will go back into an unconfigured state, whereby it will discovered again by the **MOON MiND Controller** App on your hand-held smart device and then can be reconfigured using the above steps.

Setup Method 2: Using your wired ethernet connection; **(1)** Your **MiND 2** must be plugged into your router and be operational. **(2)** Launch the **MOON MiND Controller** app on your hand-held device (IOS or Android). **(3)** Tap on the edit button before selecting the "MiND zone". **(4)** Select the **MiND** zone that you want to configure. **(5)** A new window will open; Tap on "Network". **(6)** A new screen appears. The first field is called "Name". Enter the name you wish to give the zone. For example "Living Room" or "Den". Alternately, you can leave it as is. **(7)** We strongly recommend that you **do not tamper** with the settings under "IP address" unless otherwise required by your network administrator. **(8)** Under "Wireless", enter the SSID (the default is either blank or "MiND"), remove whatever is there and type in your SSID. **(9)** Select the "security type" your network is set up for. **(10)** Enter your passphrase. **(11)** Tap "Save" on the top right side, and then tap settings to go back. Now tap "Done" in the zone view. **(12)** Close down the **MOON MiND Controller** app. **(13)** Power down the **MiND 2** using the rocker switch located on the rear panel. **(14)** Remove the Ethernet cable; you will not need it any more. **(15)** Now power up **MiND 2** using the rocker switch located on the rear panel and allow the **MiND 2** to boot up (typically under a minute). **(16)** Start the app again. Your **MiND 2** should be discovered and if you changed the name, it will now appear with its new name. **(17)** Tap on it to get into your music library just like described in the wired connection above. The **MiND 2** is now ready for use via wifi.

MiND Manual Firmware Update Procedure (Appendix B)

The **MiND 2** can be updated directly from the network by following these steps:

- (1) If the app is running, double-click the home button, select the MiND application and shut it down.
- (2) Power down the **MiND 2** using the rocker switch located on the rear panel (1), but keep it connected to your network (wired).
- (3) Press and hold the "UPDATE" button (2) located on the back panel (on the right side of the "ETHERNET" cable input). This will require a small pin since the button is slightly recessed behind the rear panel.
- (4) While still holding the "UPDATE" button (2), power up the **MiND 2** using the rocker switch located on the rear panel and wait for the "UPDATE" LED to begin flashing in green (3). Then you may release the "UPDATE" button.
- (5) Allow the unit to reprogram itself; this automated process may take as long as ten minutes to complete. The "UPDATE" LED will stop flashing and turn off once this process is finished.
- (6) The **MiND 2** will automatically "Reboot" once the firmware update is complete. This will take a few seconds.



MiND Hardware Reset Procedure (Appendix C)

- (1) Take note of your network settings in your MiND App (refer to the MiND Setup Guide procedure), since a hardware reset will automatically reconfigure these settings back to their factory defaults.
- (2) Power down the **MiND 2** using the rocker switch located on the rear panel **(1)**. It does not matter whether or not you leave it connected to your network.
- (3) Insert the tip of the paperclip into the rear panel little hole labelled "Reset" **(2)**. There is a small push switch just beneath the surface of the back panel, and when you insert the paperclip properly, and push on the switch, you'll feel it click. **Hold the switch down - do not remove the paperclip until after step #4!**
- (4) While the "Reset" switch is pressed down, power up the **MiND 2** using the rocker switch located on the rear panel **(1)**. Do Not remove the paperclip!
- (5) Wait approximately two seconds, then remove the paperclip. You will notice that the WLAN LED **(3)** continues to flash. This is unrelated to the resetting of the unit, and is part of the normal boot-up process of the MiND. In a similar manner, the front-panel blue LED will continue to flash until it finally goes solid blue.
- (6) Once the front-panel blue LED stops flashing and stays on constantly, the MiND is fully booted up and ready to use. At this point you may re-enter your network settings from step 1.

