Precautions

Please make sure to read this entire user manual before using the product.

- Do not disassemble or modify the product.
- Do not apply excessive vibration or shock to the product.
- Do not use cables that are damaged or have exposed wires.
- Do not use the product outdoors.
- The appearance, contents, and specifications of this product are subject to change without prior notice.

A/S Information

- Free Warranty Service
  - A one-year warranty is provided from the date of purchase for any defects caused by design or manufacturing under normal use.
  - However, damage or malfunction caused by force majeure (e.g. natural disasters) is not covered by the warranty, even within the warranty period.
- Paid Service
  - Products that are out of the warranty period.
  - Malfunctions caused by user negligence.
  - Malfunctions resulting from accidents.
  - Damage due to natural disasters such as earthquakes, floods, or lightning.
  - For paid service, shipping costs are the responsibility of the customer.
- Examples of User Negligence
  - Disassembly or modification of the product.
  - Failure to follow instructions as outlined in the user manual.
- Before requesting warranty service, please carefully review this manual and the Q&A section on the product detail page of our official website.

Standard Components

- sMS-2000 Main Unit
- sMS-2000 User Manual

S O t M

Ultimate High Performance Audio

Product specifications

- **OS**
  Linux(User-proven high-end audio-grade Eunhasu OS)
- **Audio Player**
  Roon Server
  DLNA audio renderer, OpenHome support
  Music Player Daemon(MPD)
  LMS & SqueezeLite
  Shairport-sync
  LibreSpot
  MinimServer
  BubbleUPnP Server
  Diretta Host & Target
  Qobuz connect
  HQplayer Network Audio Adapter
  HQplayer Embedded will be added
  Automatic CD ripper(External CD driver required)
- **Motherboard(sMB-Q370)**
  The world-best high-end audio-grade motherboard(sMB-Q370)
  Intel i7-9700 processor(supports 9th and 8th gen Intel Core processors)
  Intel i7-9700K processor(supports 9th and 8th gen Intel Core processors)
  Intel i9-9900K processor(supports 9th and 8th gen Intel Core processors)
  Synchronized by external 10MHz master clock
  PCIe 3.0 x16, x4, x1 slot
  2 x M.2 M key 2280 connector
  2 x M.2 E key 2230 connector
  6 x SATA 6Gbps port
  1 x Display port, 1 x HDMI port
  4 x USB 3.1 gen 2, 2 x USB 2.0 port
  1 x Ethernet port
  Extra-large passive CPU heat sink with flat heat pipe
- **Audio Clock**
  The world-best high-end audio-clock installed(sCLK-EX)
  Ultra Low Noise Regulator
  Active noise-cancelling circuit
  50 Ohm(or 75 Ohm) BNC connector for master clock input
- **High-End Audio-Grade USB Output**
  The world-best high-end USB host card installed(tX-USBx10G)
  Supports USB 3.1 Gen 2 port(maximum 10Gbps)
  External type A and internal type E connectors
  External power input jack
  USB power on/off switch
  USB audio class 2.0 support
- **Network Interface**
  The world-best high-end Ethernet card installed(sNI-1G)
  External power input jack
  Extra onboard Ethernet port
  All Ethernet port support WOL(Wake On Lan)
  Synchronized by external 10MHz master clock
- **High-End Audio-Grade Power Supply**
  ATX power supply(sPM-ATX100)
  Synchronous buck topology
  Superior second-stage ripple noise filter on each output
  ATX power supply compatible
  OVP, UVP, OTP, Short circuit protection
  All output powers synchronized by one clock source
- **Storage**
  500GB M.2 SSD for the standard option
  1TB M.2 SSD when ordered i7-9700K option
  4TB M.2 SSD when ordered i9-9900K option
  One additional M.2 SSD can be installed
  Maximum of 6 SATA SSD can be installed
- **Power requirement**
  AC power input voltage & current :
  100 ~ 120Vac / 8A >
  220 ~ 240Vac / 4A >
  Fuse ratings
  100 ~ 120Vac : T10AL 250Vac
  220 ~ 240Vac : T5AL 250Vac
  DC input voltage & current(optional)
  USB port for audio device : 7 ~ 9Vdc, 3A >
  Ethernet port for audio device : 7 ~ 9Vdc, 1A >
  5.5mm OD, 2.1mm ID DC jack
- **Operating environment**
  Operating temperature : 0 ~ +30℃
  Storage temperature : 0 ~ +40℃
  Operating & storage humidity : 10% ~ 90%
- **Dimensions**
  445mm x 394mm x 115mm
- **Weight**
  18Kg >

Product Appearance

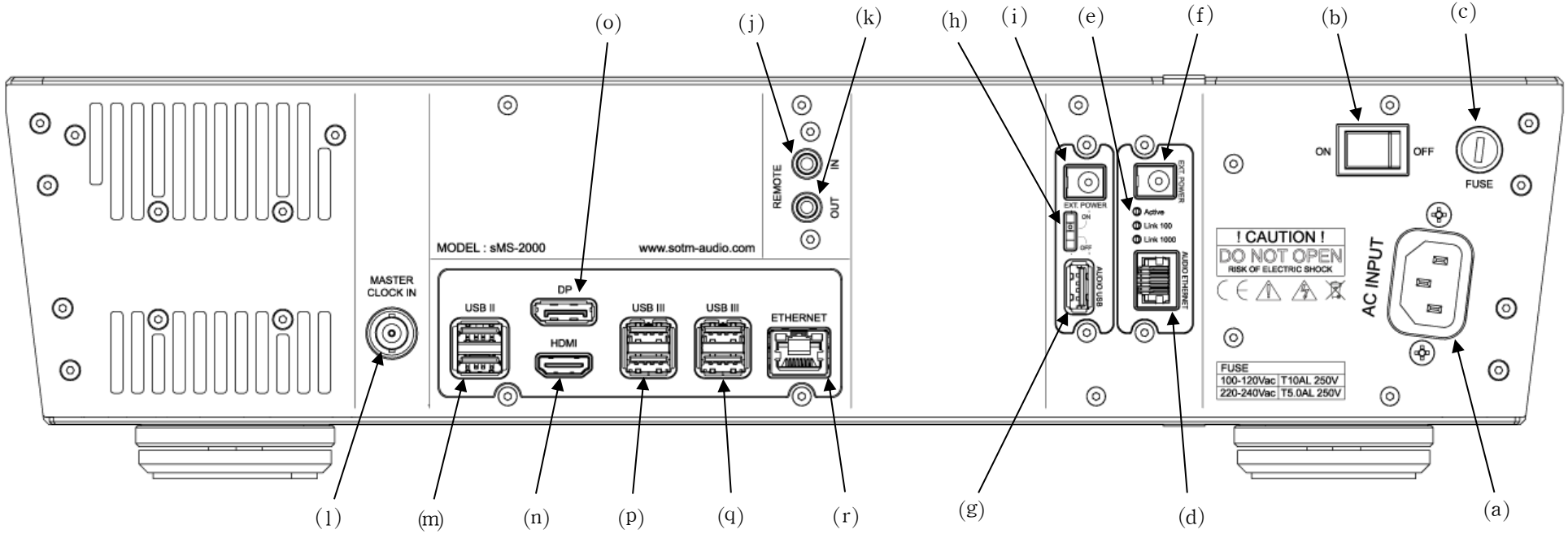
- Front Panel

(a) Power Indicator LED : Indicates the operating status of the device.
When AC power is supplied via the rear AC power connector and the AC power switch is turned on, a dim light will appear, indicating that the unit is receiving power.
When the touch switch on the right side of the front panel is pressed, the LED will brighten, confirming that the unit is now operating.

(b) Front USB Connector : When the cover is opened, a USB 3.0 port is accessible.
An external storage device can be connected here if needed.

(c) Touch Switch : When AC power is supplied, the LED ring around the touch switch will rotate three times and then turn off, indicating the unit is in standby mode.
To power on the unit from standby, press and hold the center of the touch switch for about 0.5 seconds. The LED ring will light up, and the device will begin operating.
To power off the unit during operation, press and hold the center of the touch switch again for about 0.5 seconds. The LED ring will light up briefly, then the unit will power down and return to standby mode.

- Rear Panel



(a) AC Power Input Connector : Connect the AC power cable here..

(b) AC Power Switch : Used to turn the AC power to the device ON or OFF.

(c) AC Power Fuse : A socket for installing a fuse that protects the device from overvoltage and overcurrent.

(d) Audio grade Ethernet Port : A dedicated Ethernet port for network audio streaming. Use an Ethernet cable to connect to audio devices that support direct Ethernet connection, or to an internet router or Ethernet hub.

(e) Audio grade Ethernet Port Indicators : LED indicators showing the network status:

Green: Network operating

Yellow: 100 Mbps connection

Orange: 1000 Mbps connection

(f) External Power Input Jack for Audio grade Ethernet Port : An external power input jack for the audio grade Ethernet port. Connect to an external power supply.

(g) Audio grade USB 3.0 Port : A USB 3.0 port dedicated to USB audio devices. Use a USB cable to connect your USB audio device.

(h) Audio grade USB 3.0 Port power switch : Turns the +5V power supply of the audio grade USB 3.0 port ON or OFF.

(i) External Power Input Jack for Audio grade USB 3.0 Port : An external power input jack for the audio grade USB 3.0 port. Connect to an external power source.

(j) Remote ON/OFF Input Jack : A jack for receiving remote ON/OFF signals. Connect to a device capable of remote control output using a 3.5mm plug remote control cable.
When the remote ON/OFF signal is ON, the device starts operating.
When the signal is OFF, the device stops and enters standby mode.

(k) Remote ON/OFF Output Jack : A jack for outputting remote ON/OFF signals. Connect to a device that can receive remote control input using a 3.5mm plug remote control cable.
When the device starts operating, the remote ON/OFF output signal turns ON.
When the device stops and enters standby mode, the output signal turns OFF.

(l) Master Clock Input Jack : 10MHz master clock input signal jack. Depending on the order option, use a 50Ohm or 75Ohm BNC cable to connect to a 10MHz master clock device.

(m) Dual USB 2.0 Ports: : Two USB 2.0 ports for connecting peripherals such as a keyboard or mouse.

(n) HDMI Video Output Jack: Use an HDMI cable to connect to a monitor or TV..
- If using the Eunhasu OS, connecting the HDMI video output is not necessary.

(o) DisplayPort Video Output Jack : Use a DisplayPort cable to connect to a monitor or TV..
- If using the Eunhasu OS, connecting the HDMI video output is not necessary.

(p) Dual USB 3.0 Ports : Two USB 3.0 ports supporting SuperSpeed USB connections for external storage devices or other compatible USB equipment.

(q) Dual USB 3.0 Ports : Two USB 3.0 ports supporting SuperSpeed USB connections for external storage devices or other compatible USB equipment..

(r) Auxiliary Ethernet Port : An additional Ethernet port for network connection. If the audio grade Ethernet port is used for connecting to audio devices, use this port to connect to a router or Ethernet hub..

Product Installation

- Precautions for Installation

- Be sure to read the entire installation guide before installing the product..
- Before installation, turn off all audio devices and disconnect their AC power cables..
- Carefully check all input and output connections and connect the cables properly.

- Installation Procedure

- Turn off the power of all audio devices.
- Place the sMS-2000 on a flat and stable surface, such as an audio rack. Make sure there is at least 10cm of space around all sides of the device. Relocate the unit if necessary to ensure adequate ventilation.
- Set the AC power switch to the OFF position
- If using the remote ON/OFF input/output function, connect it to compatible devices using a 3.5mm plug remote cable.
- Use a USB cable to connect the audio grade USB 3.0 port to your USB audio device.
- Use an Ethernet cable to connect the audio grade Ethernet port to an audio device that supports direct Ethernet connection, or to a network router or Ethernet hub.
- If the audio grade Ethernet port is connected to an audio device, use an Ethernet cable to connect the auxiliary Ethernet port to a router or Ethernet hub.
- If using external power for the audio grade USB 3.0 port or the audio grade Ethernet port, connect external power sources to the corresponding power input jacks.
- If using a master clock device, connect it using a 50Ohm or 75Ohm BNC cable depending on the order option.
- If using Windows OS, connect the monitor or TV using an HDMI or DisplayPort cable.
- Make sure all cables are connected correctly.
- Connect the AC power cable to the AC power input connector.

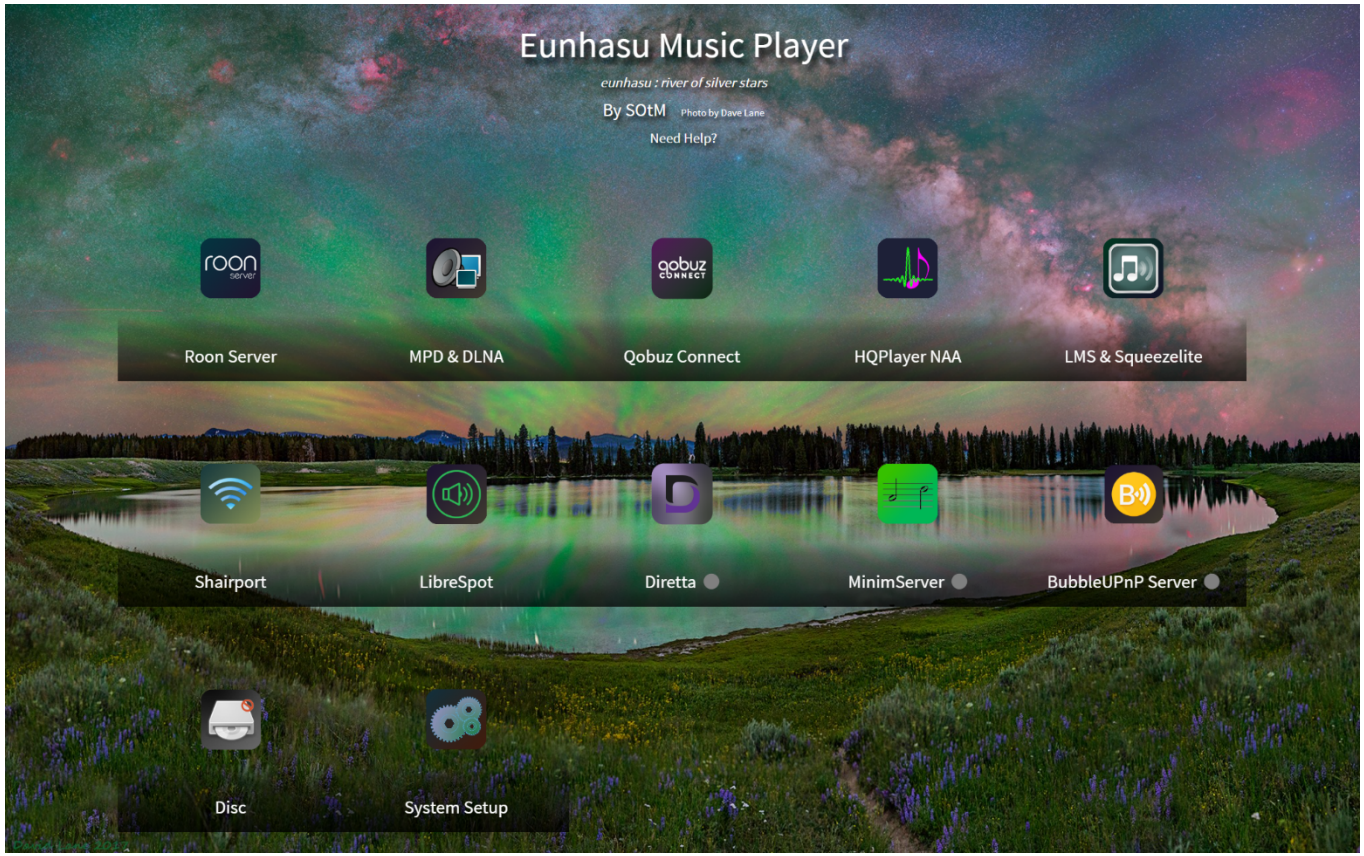
- Powering On the Device and Operation

- Turn on the power of all other audio devices.
- Set the AC power switch to ON, then, the LED ring around the front touch switch will rotate three times and then turn off and the SOtM logo (S mark) on the front left will light up dimly.
- If a 10MHz master clock device is connected, one LED on the touch switch ring will light up and slowly rotate counterclockwise. This indicates the external master clock device is connected and functioning.
- Lightly press the center of the touch switch for about 0.5 seconds and release. The LEDs on the touch ring will all light up, and the product will begin operating.

After a moment, the unit will fully power on, the SOtM logo will become brightly lit, and the touch ring LEDs will turn off.

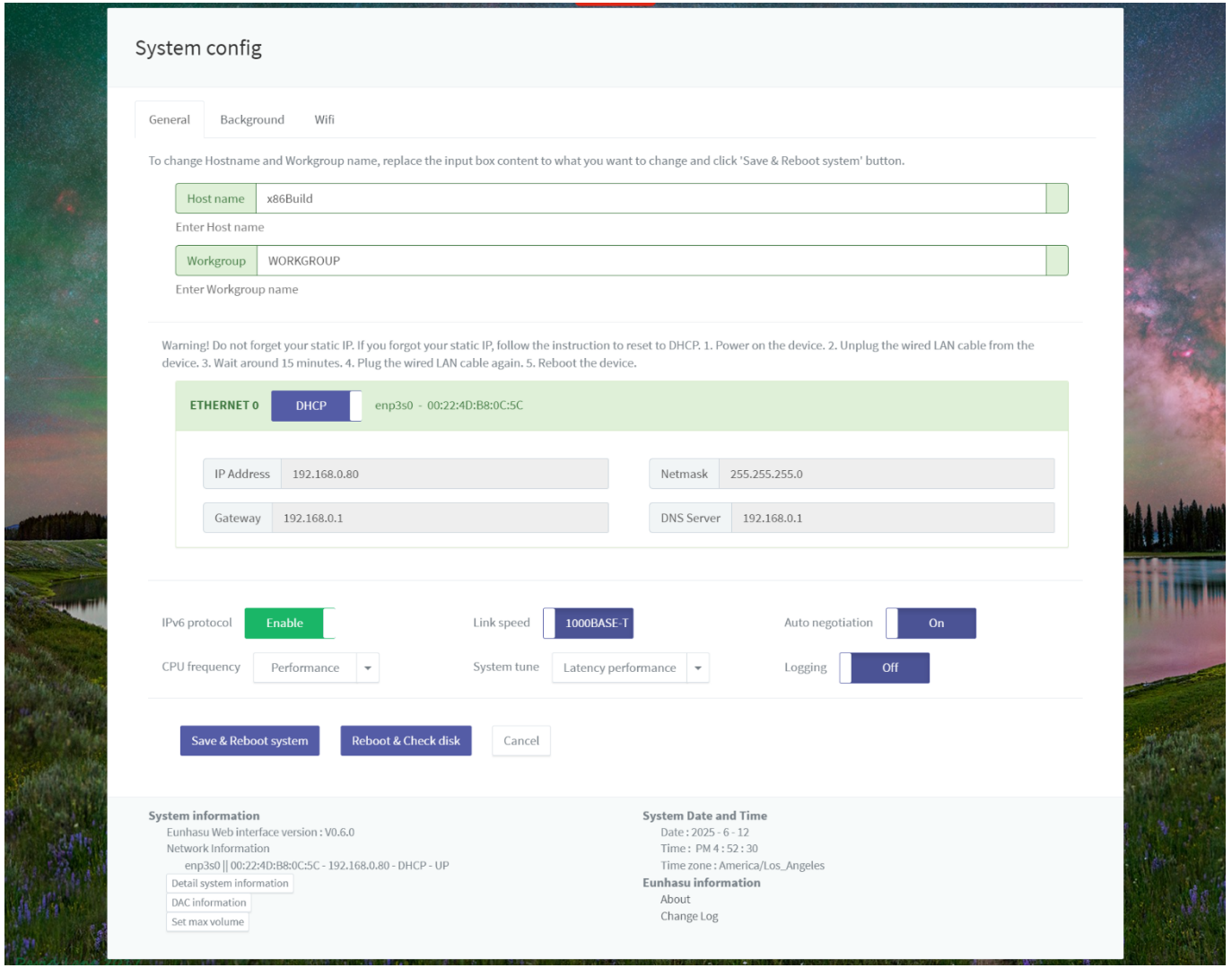
- Connecting to Eunhasu OS

- For smartphones or tablets, connect the smart device via Wi-Fi to the same network as the sMS-2000.
- Install and run the Eunhasu Browser application. The device running Eunhasu OS will appear on the screen.
- Select the desired device to access the Eunhasu Web GUI.
- For PC users, open a web browser(Chrome is recommended) and go to www.sotm-audio.com/my. Devices running Eunhasu OS will be listed.
- Click "Connect to Eunhasu" next to the desired device to access the Web GUI interface as below.



- System Configuration

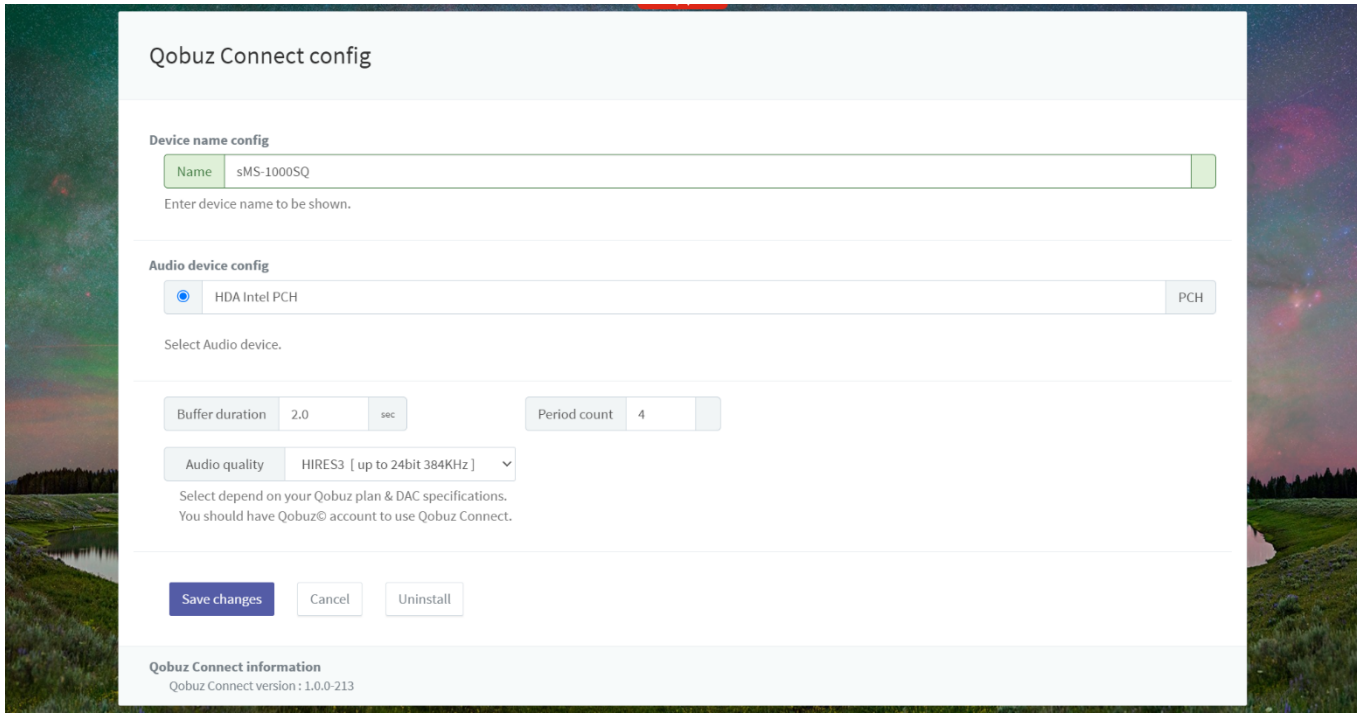
- Move the cursor or touch the System Setup . Small icons will appear. Click on the System Config icon to open the system configuration page as below.



- Normally, no changes are needed, but you may modify settings if required. Click the Save & Reboot system button to apply changes and restart the device.
- Click the Cancel button to return to the main screen, or the main screen will reappear automatically after the reboot is complete.

- Music Playback Program Setup and Operation

- Touch or hover over the icon of the desired music playback program and related icons will appear. Click the Config icon to open the settings for the selected playback program (e.g., Qobuz Connect)



- Change any settings as needed and click **Save changes** to save and return to the main screen.
- Touch or hover over the playback program icon again and click **Start** to launch the selected program.

  Some programs like **Diretta**, **MinimServer**, and **BubbleUPnP server** can also be started from their settings screen.
- Run the corresponding controller app on your smart device, configure audio output and other settings, and connect it to the program running on Eunhasu OS.
- Choose music file to play or stream and start playback..

Note : For more detailed usage instructions for Eunhasu OS, please refer to the link below:

https://docs.sotm-audio.com/doku.php?id=en:eunhasu:start