NA3 Series Quick User Guide
(V1.2)

Power-On Setup：

Default Settings for First Use：

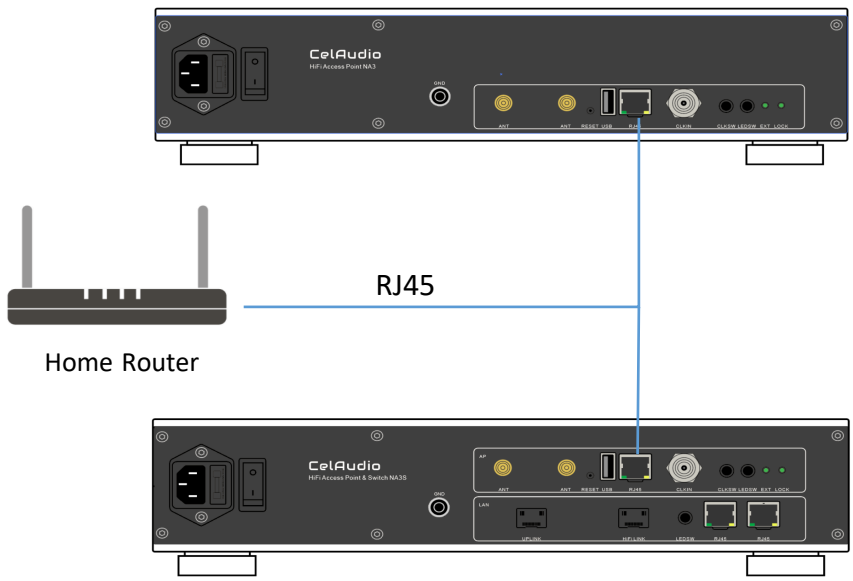
1. When NA3/NA3S is powered on, it is set to AP (Access Point) mode by default. It needs to be connected to a home router via the RJ45 interface to automatically obtain an IP address. It is recommended to complete various configurations according to the connection shown in the diagram below.

2. Default WiFi SSID： CelAudio， Password: CelAudio. When the network port is connected to a home router or optical modem, terminals connecting to the "CelAudio" network will obtain IP addresses the same as the home network.

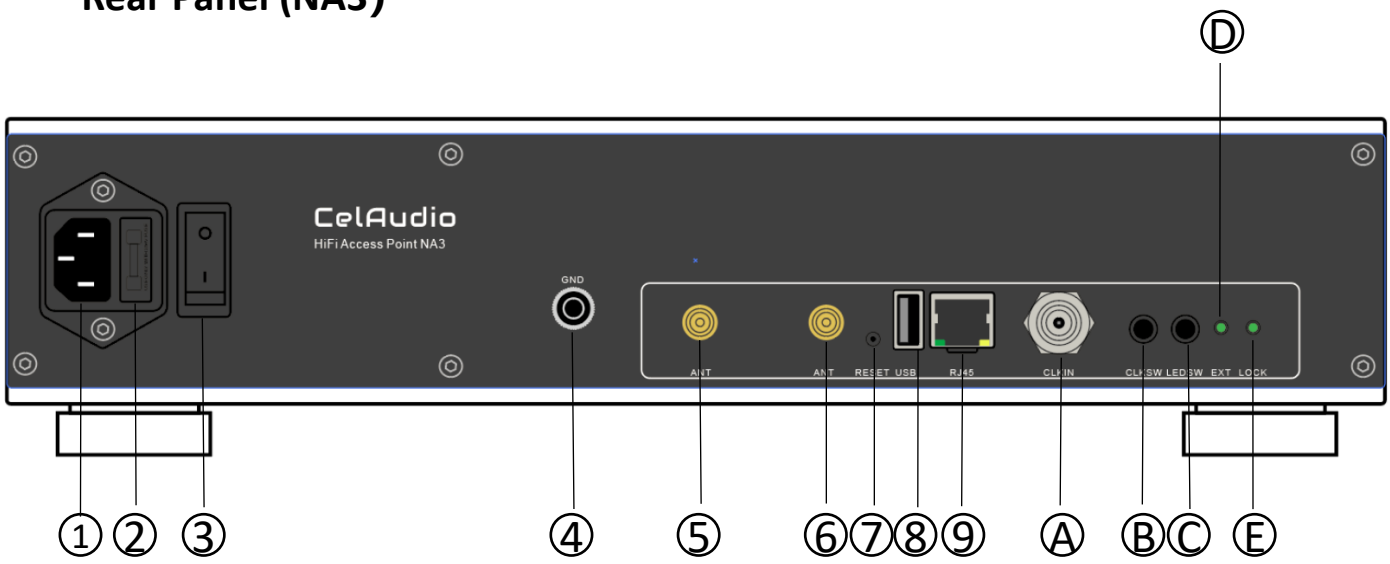
3. Install the nManager APP on your mobile phone, and it will automatically detect NA3/NA3S. Click the device icon to enter the CelWOS 4 configuration interface. On a PC, open a browser and enter na3.local or na3s.local to access the configuration page. First, check if there is a newer firmware version available. It is recommended to upgrade to the latest version. For specific upgrade and configuration methods, please refer to the software user guide.

Note 1: NA3/NA3S is wireless device. If there are single-ended direct-heated tube amplifiers on the equipment rack, it is recommended to maintain a distance of more than 50cm to avoid interference. For single-ended direct-heated tube headphone amplifiers (especially 300B tube headphone amplifiers driving high-sensitivity headphones), the distance should be adjusted according to actual conditions.

Note 2: Due to the uncertain placement of NA3/NA3S in practical use and to cover large rooms, the devices are factory-equipped with 7dBi antennas by default. If the wireless signal is strong enough in actual use (with excess performance) and further reduction of wireless interference is desired, a pair of compact 3dBi antennas can be purchased separately for replacement.



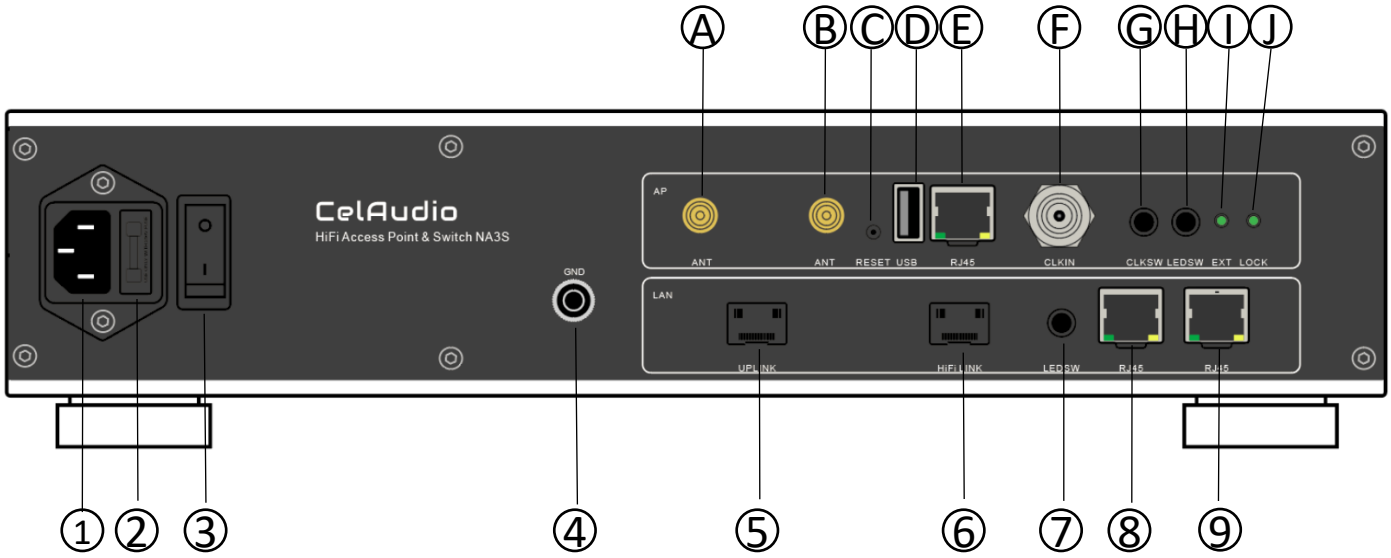
Rear Panel (NA3)



NA3 rear panel ports：

1	Power AC Socket
2	Fuse, 5*20mm, 1A slow-blow
3	Power On/Off Switch
4	Grounding Post
5	WiFi Antenna
6	WiFi Antenna
7	Factory Reset Button： • First, turn on the indicator switch and power on the device. • After the network port indicator light turns on, press and hold the reset button. • Release the button when the network port indicator light turns off twice, and the device will be restored to factory settings.
8	USB 2.0 Port
9	10/100/1000M RJ45 Ethernet port
A	BNC Clock Input，50Ω，10MHz，≥0.6V RMS
B	Clock Input Switching. Press to select external clock.
C	LED Indicator Switch for Network Port and Clock Status. Pop out to turn off the indicators，and press in to turn them on.
D	External Clock Input Indicator： • Light on: BNC input • Light off: SMA input
E	External Clock Input Lock Indicator： • Light on: Lock successful • Light off: External clock not locked

Rear Panel （NA3S）



NA3S rear panel ports：

1	Power AC Socket
2	Fuse, 5*20mm, 1A slow-blow
3	Power On/Off Switch
4	Grounding Post
5	Upstream SFP Interface. This interface can be configured via software for power-off, completely isolating the impact from the front-end network.
6	Downstream HiFi Interface
7	LED Indicator Switch for Network Port. Push out to turn off the indicators， and press in to turn them on.
8	10/100/1000M RJ45 Ethernet port
9	10/100/1000M RJ45 Ethernet port

NA3S rear panel ports（Continued）：

A	WiFi Antenna
B	WiFi Antenna
C	Factory Reset Button： • First, turn on the AP zone indicator switch and power on the device. • After the E network port indicator light turns on, press and hold the reset button. • Release the button when the network port indicator light turns off twice, and the device will be restored to factory settings.
D	USB 2.0 Port
E	10/100/1000M RJ45 Ethernet port
F	BNC Clock Input，50Ω，10MHz，≥0.6V RMS
G	Clock Input Switching. Press to select external clock.
H	LED Indicator Switch for Network Port and Clock Status. Push out to turn off the indicators，and press in to turn them on.
I	External Clock Input Indicator： • Light on: BNC input • Light off: SMA input
J	External Clock Input Lock Indicator： • Light on: Lock successful • Light off: External clock not locked

Notes

Interfaces 5 and 6: SFP ports are gigabit-locked and do not support other rates.

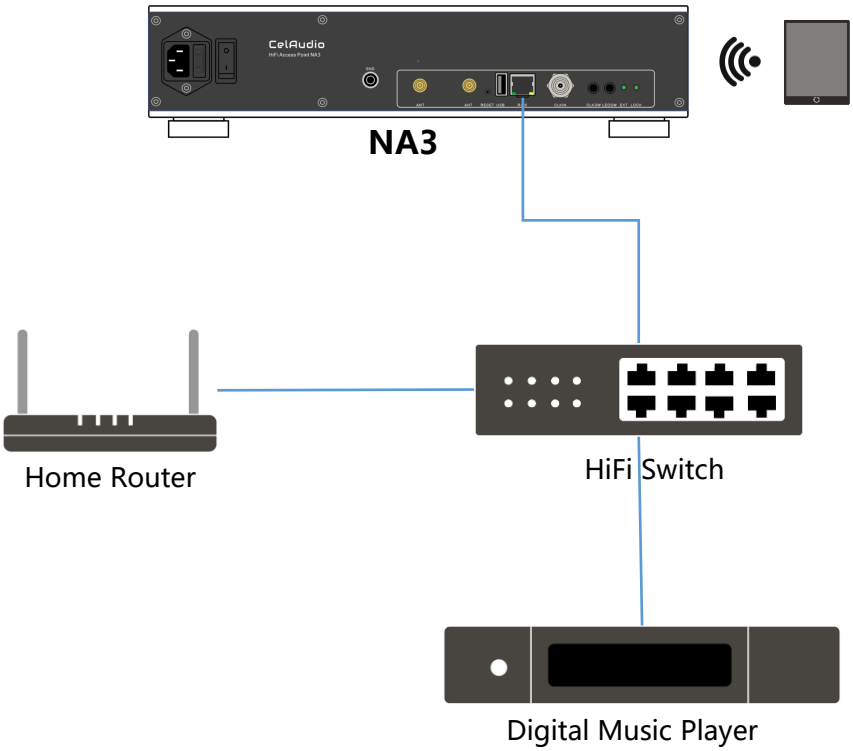
Upstream SFP Interface (Interface 5) is used to connect to the home network. To enable software-based network disconnection, an SFP optical fiber module or SFP-to-Ethernet electrical module must be used. SFP-DAC modules **cannot** achieve software-based network disconnection.

Downstream SFP Interface (Interface 6) is used to connect to HiFi switches or network audio players.

AP Zone RJ45 Network Port E needs to be connected to LAN Zone RJ45 Network Port 8 or Port 9.

Typical Device Connection

Scenario1— NA3 AP Mode



The home router acts as the DHCP server to assign IP addresses.

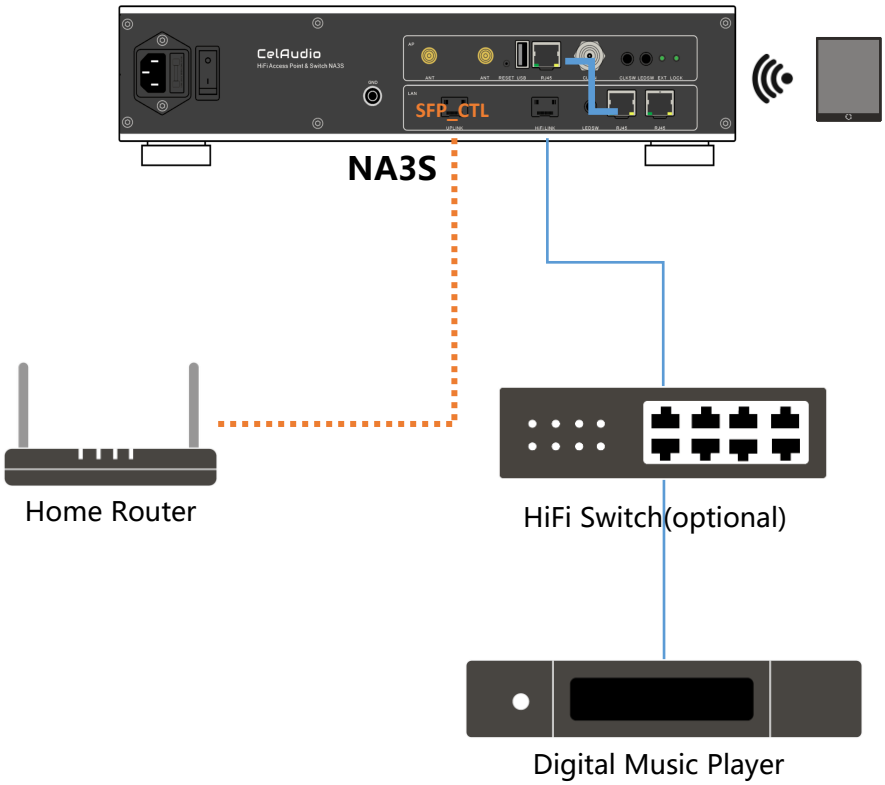
1. NA3, by default, automatically obtains an IP address when powered on by connecting the RJ45 of the AP card to a home router.

2. Default WiFi SSID： CelAudio， Password: CelAudio. When the network port is connected to a home router, terminals connecting to the "CelAudio" network will obtain IP addresses the same as the home network.

3. Install the nManager APP on your mobile phone, and it will automatically detect NA3. Click the device icon to enter the CelWOS 4 configuration interface. For specific configuration method, please refer to the software user guide.

Scenario2— NA3S AP Mode, with SFL_CTL controlling the upstream

There are two schemes for the NAS3 AP mode (see Scenarios 2 and 3)， and you can choose according to the requirements for sound quality and usage habits.



The home router acts as the DHCP server to assign IP addresses.

1. NA3S, by default, automatically obtains an IP address when powered on by connecting the RJ45 of the AP card to a home router.

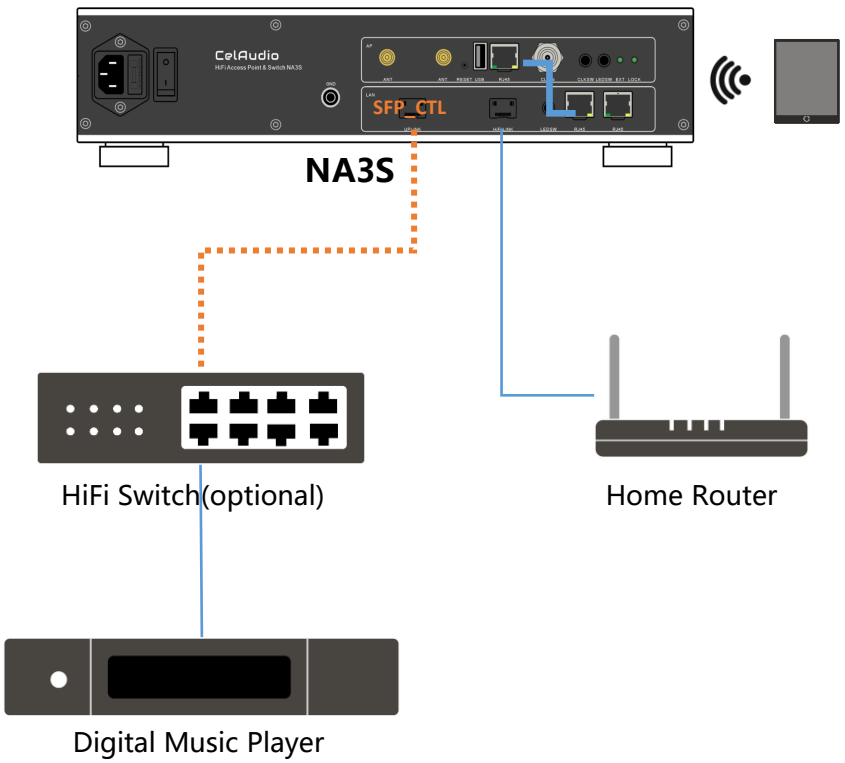
2. Default WiFi SSID： CelAudio， Password: CelAudio. When the network port is connected to a home router, terminals connecting to the "CelAudio" network will obtain IP addresses the same as the home network.

3. Install the nManager APP on your mobile phone, and it will automatically detect NA3S. Click the device icon to enter the CelWOS 4 configuration interface. For specific configuration method, please refer to the software user guide.

4. On the NA3S configuration homepage, you can choose to disconnect the SFP_CTL . When the SFP_CTL is set to disconnect, it will stop supplying power to this interface, thereby disconnecting the home network (this method is ineffective for SFP_DAC cables that do not require power supply). At this point, wireless terminals connected to the NA3S will be unable to access the home network and the Internet, but they can still control devices in the HiFi network.

Scenario3— NA3S AP Mode, with SFL_CTL controlling the downstream

In internal tests, the scheme in Scenario 3 can provide better local playback quality, but it is impossible to control the devices in the HiFi network before re-enabling the SFP_CTL interface.



The home router acts as the DHCP server to assign IP addresses.

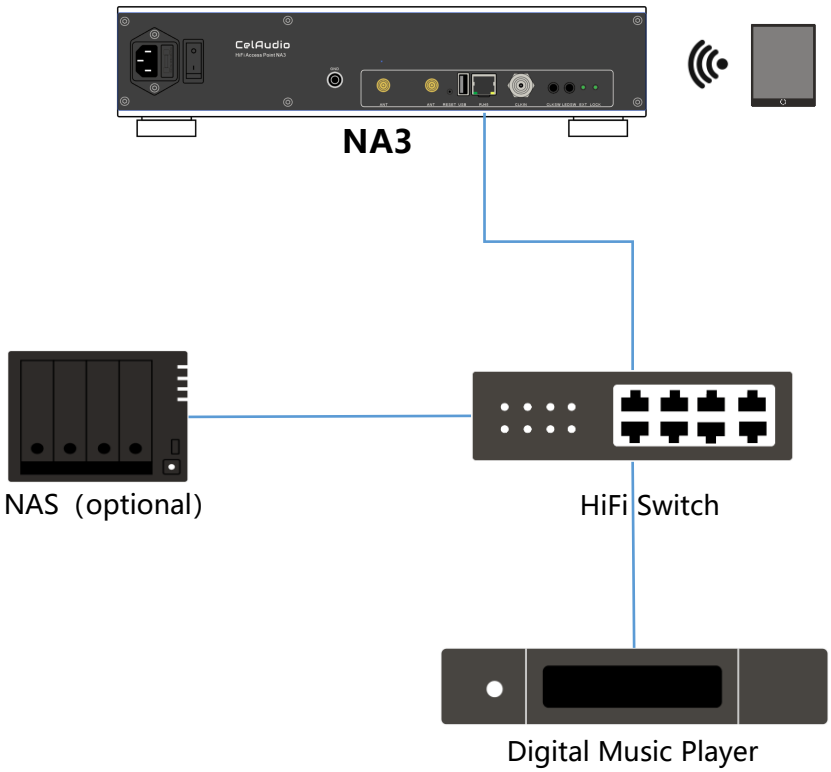
1. NA3S, by default, automatically obtains an IP address when powered on by connecting the RJ45 of the AP card to a home router.

2. Default WiFi SSID： CelAudio， Password: CelAudio. When the network port is connected to a home router, terminals connecting to the "CelAudio" network will obtain IP addresses the same as the home network.

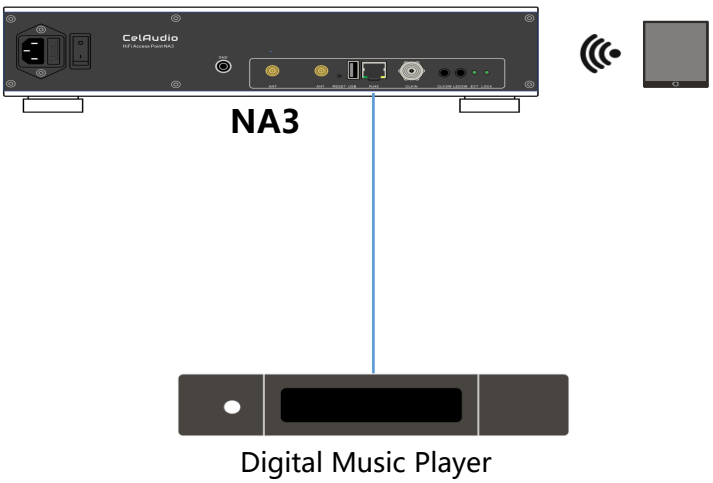
3. Install the nManager APP on your mobile phone, and it will automatically detect NA3S. Click the device icon to enter the CelWOS 4 configuration interface. For specific configuration method, please refer to the software user guide.

4. On the NA3S configuration homepage, you can choose to disconnect the SFP_CTL. When the SFP_CTL is set to disconnect, it will stop supplying power to this interface, thus disconnecting the HiFi (this method is ineffective for SFP_DAC cables that do not require power supply). At this point, the wireless terminals connected to NA3S will only be able to access the home network and the Internet, and cannot control the HiFi network devices.

Scenario4— NA3 AP+DHCP Mode （1）



Scenario5— NA3 AP+DHCP Mode （2）



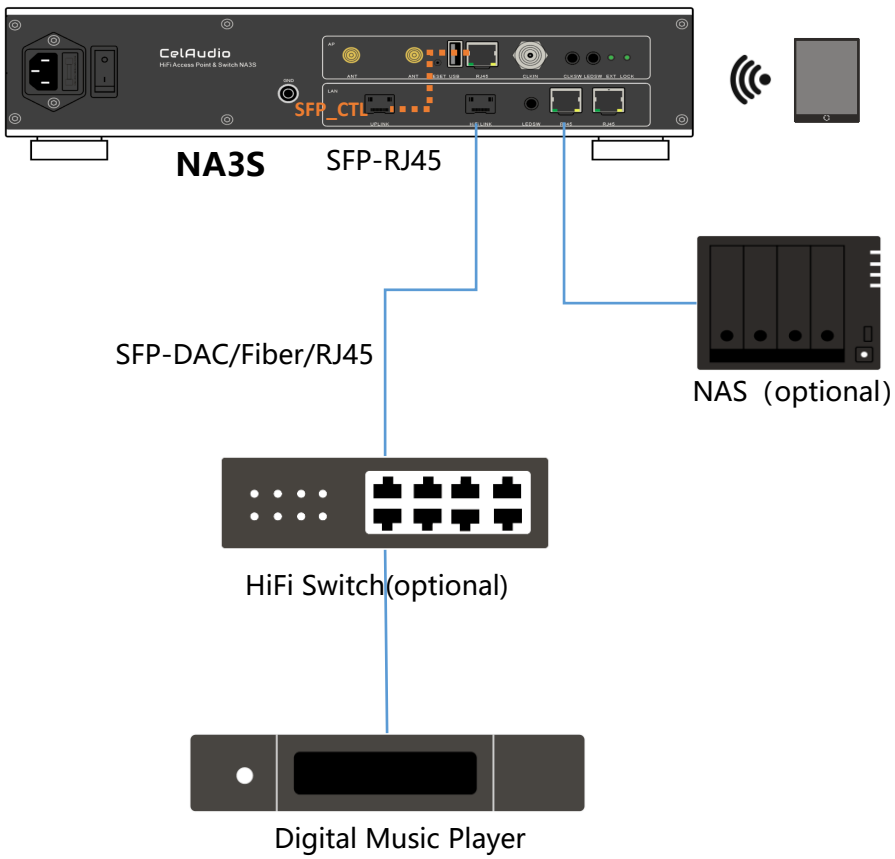
For scenarios where there is no need to listen to internet music , NA3 provides DHCP server and wireless network access functions.

1. Connect according to the Power-On Setup on the first page. In nManager, select Network Settings -> AP + DHCP Mode, and set the wireless SSID and PASSWORD. Restart NA3 as prompted on the screen.

2. In AP+DHCP service mode, the network address segment is 10.1.10.0/24. Please make sure to disconnect from your home network when using this mode to avoid potential IP address conflicts.

Note: Due to routing isolation, devices connected to the home network cannot access devices in the HiFi network.

Scenario6— NA3S AP+DHCP Mode



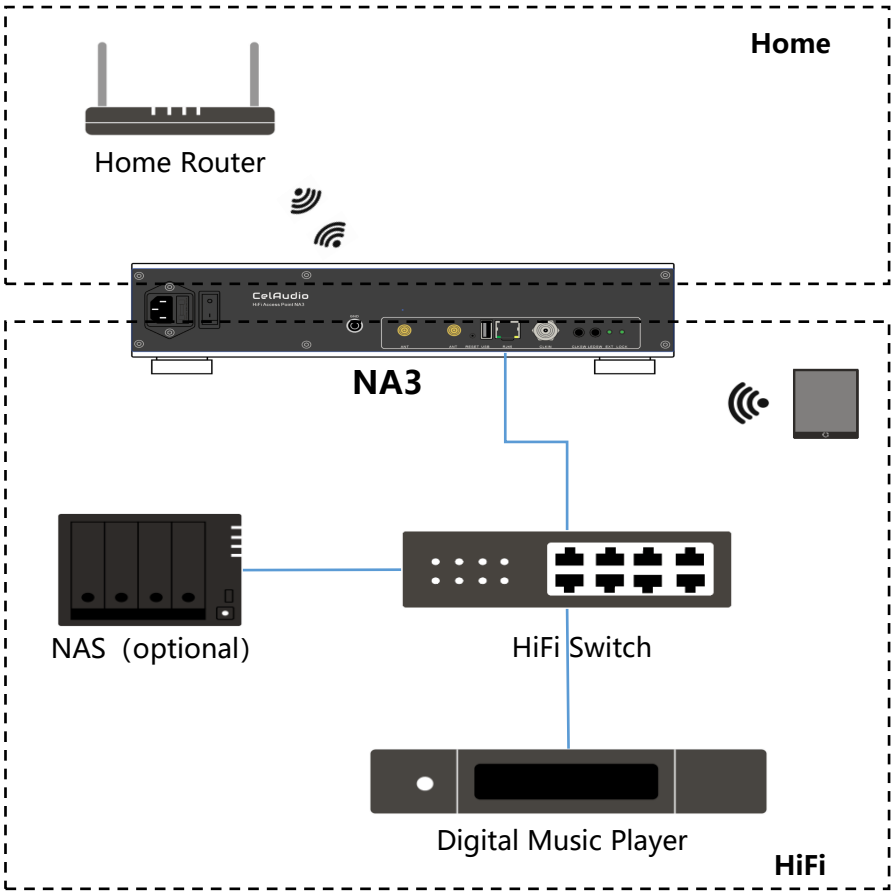
For scenarios where there is no need for streaming listening, NA3S provides DHCP server and wireless network access functions.

1. Connect according to the Power-On Setup on the first page. In nManager, select Network Settings -> AP+DHCP Mode, set the wireless AP SSID and PASSWORD. Restart NA3S as prompted on the screen.

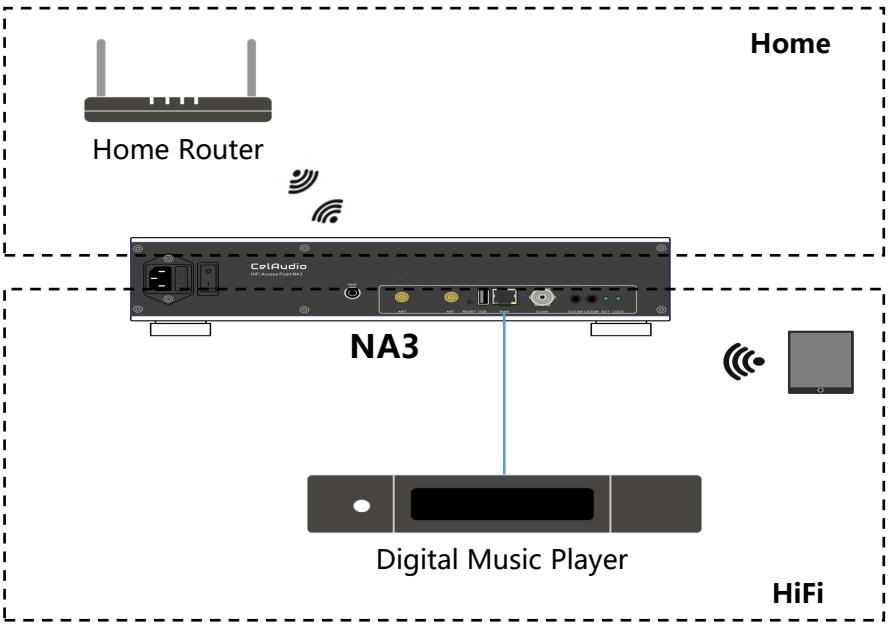
2. AP + DHCP service mode, with the network address segment being 10.1.10.0/24. Please make sure to disconnect from the home network when using this mode; otherwise, it may cause IP address confusion in the home network.

3. In this scenario, if you choose to disconnect the SFP_CTL interface, the wireless connection will be removed from the HiFi network. Wireless terminals connected to the NA3S will be unable to access devices in the HiFi network, while the sound quality will be audibly improved.

Scenario7— NA3 AP Router Mode （1）



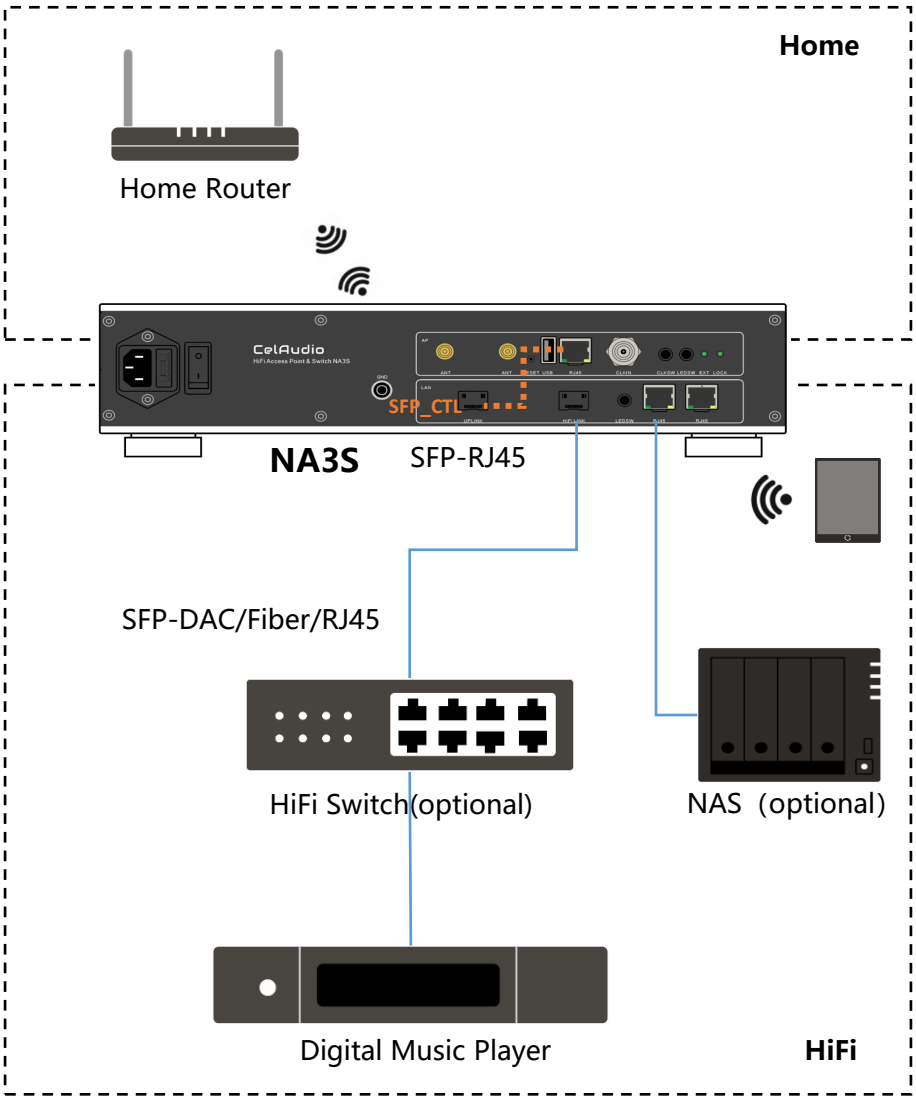
Scenario8— NA3 AP Router Mode （2）



The NA3 wireless STA obtains an IP address from the home network, while the wireless terminals connected to the NA3's AP and the devices in the HiFi network obtain IP addresses from the NA3.

Connect according to the Power-On Setup on the first page. In nManager, select Network Settings -> AP Router Mode, connect the STA wireless network to the home network, set the wireless AP SSID, PASSWORD, and AP address segment (if there is an NWX in the network, it is recommended to set the IP address segment to 10.1.10.X/24), and restart NA3 as prompted on the screen.

Scenario9——NA3S AP Router Mode



The NA3S wireless STA obtains an IP address from the home network, while the wireless terminals connected to the NA3S's AP and the devices in the HiFi network obtain IP addresses from the NA3S.

1. Connect according to the Power-On Setup on the first page. In nManager, select Network Settings -> AP Router Mode, connect the STA wireless network to the home network, set the wireless AP SSID, PASSWORD, and AP address segment (if there is an NWX in the network, it is recommended to set the IP address segment to 10.1.10.X/24), and restart NA3S as prompted on the screen.

2. In this scenario, disconnecting the SFP_CTL will remove the wireless connection from the HiFi network. Wireless terminals connected to the NA3S will lose access to HiFi network devices, while experiencing an audible improvement in sound quality.

Note: Due to the route isolation, devices connected to the home network cannot access devices in the HiFi network.

Fault Recovery:

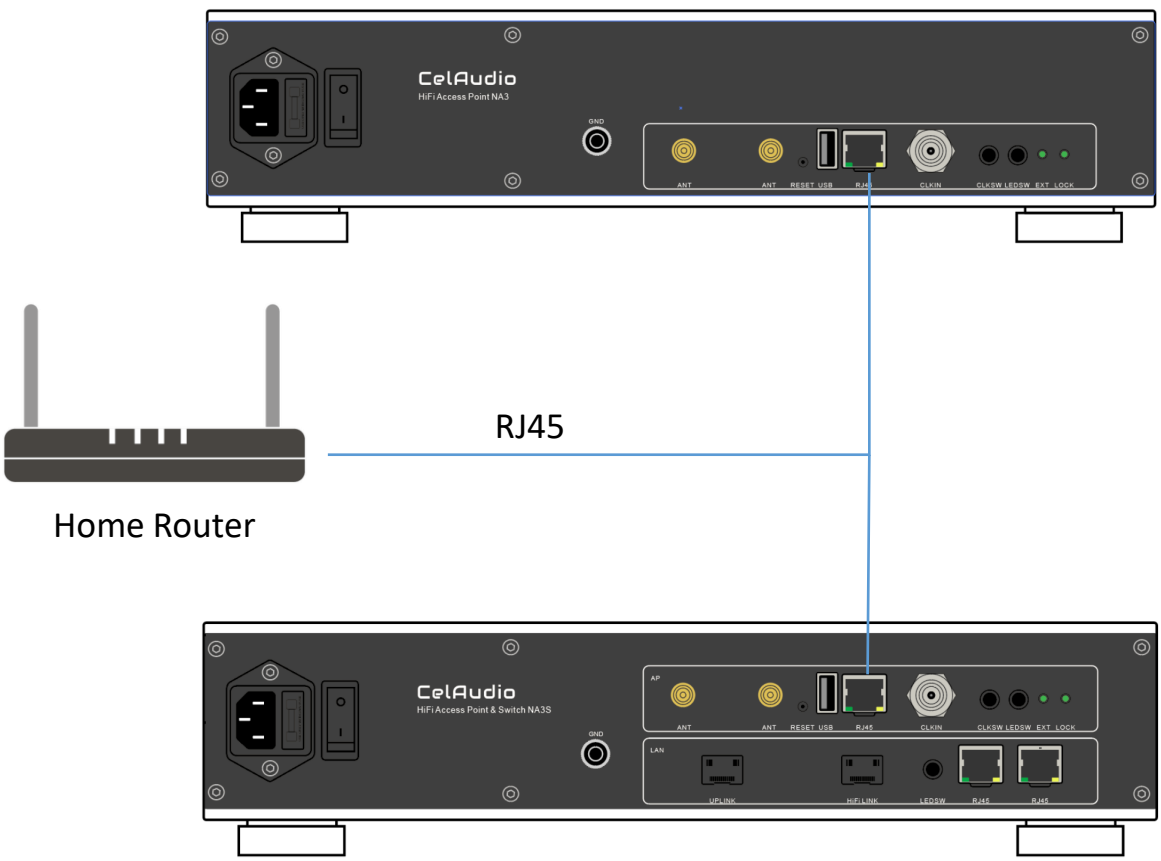
If the management page of the device becomes inaccessible due to misconfigurations or connection issues with NA3/NA3S, first restore the default scheme connection mode and strictly follow this scheme for connection. The home router will serve as the DHCP server to assign IP addresses.

Reboot the device, press and hold the reset button for 20-45 seconds, and wait for the CelAudio SSID to appear (the recovery speed may vary slightly under different configurations). At this point, the original settings will not be lost, but NA3/NA3S will start up using the default scheme for a new device.

1. NA3/NA3S, by default, automatically obtains an IP address when powered on by connecting the RJ45 to a home router.

2. Default WiFi SSID： CelAudio， Password: CelAudio. When the network port is connected to a home router, terminals connecting to the "CelAudio" network will obtain IP addresses the same as the home network.

3. Install the nManager APP on your mobile phone, and it will automatically detect NA3/NA3S. Click the device icon to enter the CelWOS 4 configuration interface. On a PC, open a browser and enter na3.local or na3s.local to access the configuration page. For specific configuration , please refer to the software user guide.



Purchase Methods/Channels of Cables and Connectors

SFP-DAC direct-attach cable: Please contact the Customer Service of CelAudio

NCK II network cable: Please contact the Customer Service of CelAudio

FS MMF Optical Transceiver Module : purchase link is
https://cn.fs.com/products/75332.html

FS Industrial Transceiver Module： purchase link is
https://cn.fs.com/products/177946.html

Siemens Multimode Optical Fiber： Model is 6XV1843-5EH10-0AA0, and purchase link is
https://mall.siemens.com.cn/pcweb/detailIndex/52100022082.html

SAMZHE OM2 Multimode Optical Fiber: Model is LC - LC ,and purchase link is
https://item.jd.com/100005857815.html