

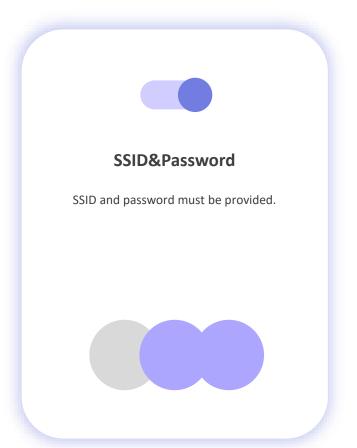
NA3&NA3S

Wireless AP Topology(V1.0)

CelAudio

2025.06

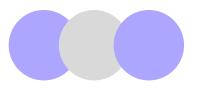
Key Elements for Wireless Terminals to Access WiFi





DHCP Server

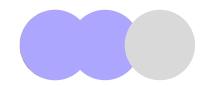
IP addresses must be assigned to wireless terminals ,otherwise the terminals will disconnect from the wireless network.





Gateway

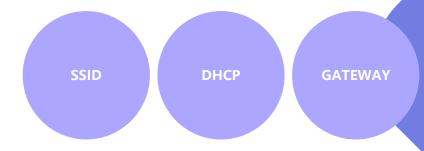
Wireless terminals must know to whom to send data when accessing the Internet, otherwise they will disconnect from the wireless network.



The Function of SFP_CTL

SFP_CTL

an interface allows "unplugging" the network cable by APP

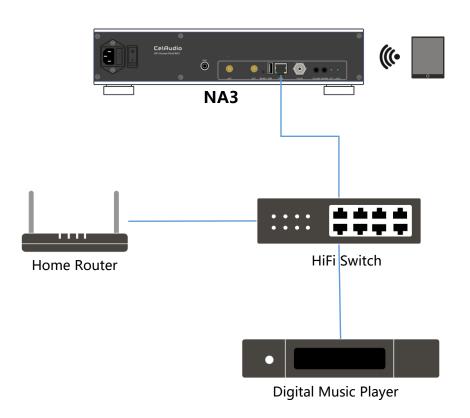


- ➤ The essence of SFP_CTL is to "unplug" the network cable, shielding interference to create a pure playback environment
- SFP_CTL can be configured to maintain the SSID, DHCP and GATEWAY after "unplugging" the network cable, ensuring normal network operation

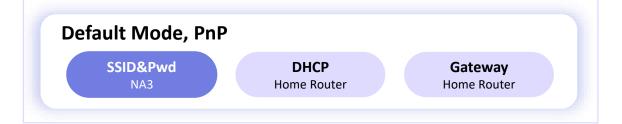
Choose NA3 or NA3S

Mode	Scenario	Network/Device/Audio Source Requirements	NA3	NA3S	SFP_CTL Function	Topology
АР	Scenario1	 Network cable near the digital music player Listen to both internet music and LAN music With a HiFi switch 	•	(Scenario2/3)		
	Scenario2	 Network cable near the digital music player Listen to both internet music and LAN music HiFi switch (Optional) 		•	Disconnect SFP_CTL to block interference from the home main router	
	Scenario3	 Network cable near the digital music player Listen to both internet music and LAN music HiFi switch (Optional) 		•	Disconnect SFP_CTL to block interference from wireless terminals and home networks	
AP+DHCP	Scenario4	 No network cable near the digital music player Only listen to LAN music (no internet connection) With a HiFi switch 	•	(Scenario6)		
	Scenario5	 No network cable near the digital music player Only listen to LAN music (no internet connection) No HiFi switch, but only digital music player connected 	•	(Scenario6)		
	Scenario6	 No network cable near the digital music player Only listen to LAN music (no internet connection) HiFi switch (optional), can connect multiple devices 		•	Disconnect SFP_CTL to block interference from wireless terminals	
AP+STA	Scenario7	 No network cable near the digital music player Listen to both internet music and LAN music With a HiFi switch 	•	(Scenario9)		
	Scenario8	 No network cable near the digital music player Listen to both internet music and LAN music No HiFi switch, but only digital music player connected 	Ø	(Scenario9)		
	Scenario9	 No network cable near the digital music player Listen to both internet music and LAN music HiFi switch (optional), can connect multiple devices 			Disconnect SFP_CTL to block interference from wireless terminals	

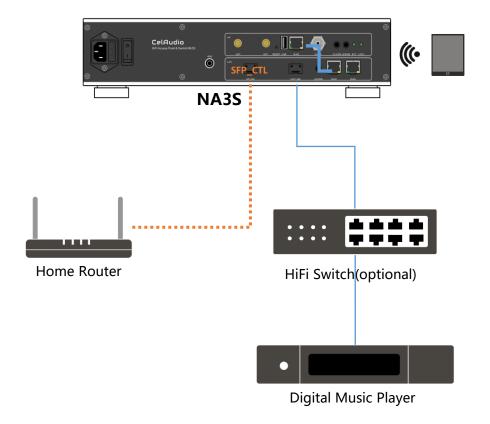
AP Mode: Scenario1



- Network cable near the digital music player
- Listen to both internet music and LAN music
- with a HiFi switch
- Similar to USB product, purify the network signals of wireless terminals and reduce interference
- The acoustic signature of NA3 can enhance sound quality

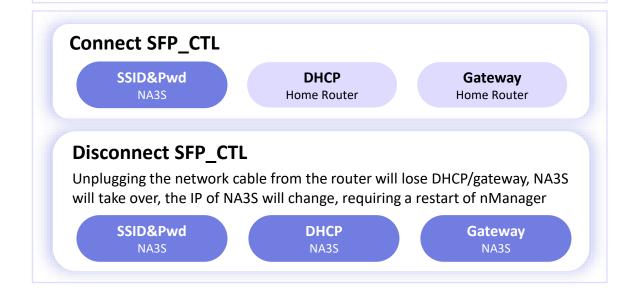


AP Mode: Scenario2

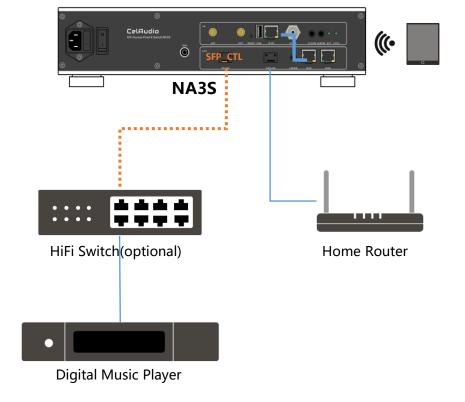




- Network cable near the digital music player
- Listen to both internet music and LAN music
- HiFi switch (Optional)
- Disconnect SFP_CTL to cut off connection between NA3S and home main router, blocking interference from the home main router to the digital music player and enhancing playback sound quality
- When SFP_CTL is disconnected, only LAN music can be played

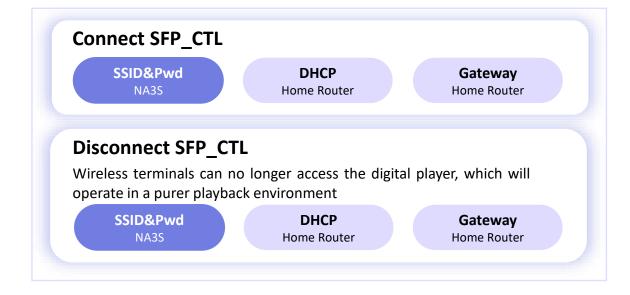


AP Mode: Scenario3

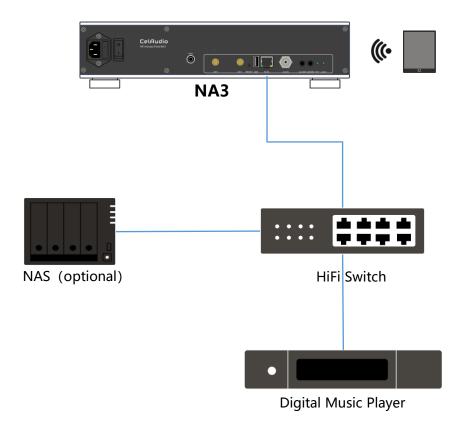




- Network cable near the digital music player
- Listen to both internet music and LAN music
- HiFi switch (Optional)
- Disconnect SFP_CTL to cut off NA3S from HiFi switch/digital player, blocking wireless terminals and home networks from interfering with the digital player
- When SFP_CTL is disconnected, only LAN music can be played



AP+DHCP Mode: Scenario4

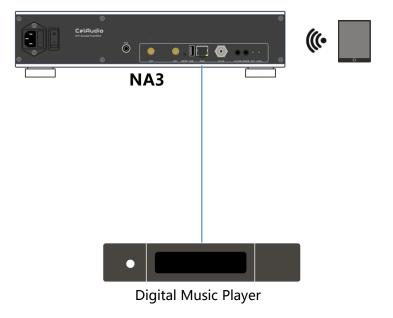


- No network cable near the digital music player
- Only listen to LAN music (no internet connection)
- With a HiFi switch
- NA3 provides SSID/DHCP/gateway services, replacing ordinary routers and high-grade linear power supplies to completely eliminate the impact of home main routers on sound quality
- Similar to USB product, purify the network signals of wireless terminals and reduce interference
- The acoustic signature of NA3 can enhance sound quality





AP+DHCP Mode: Scenario5



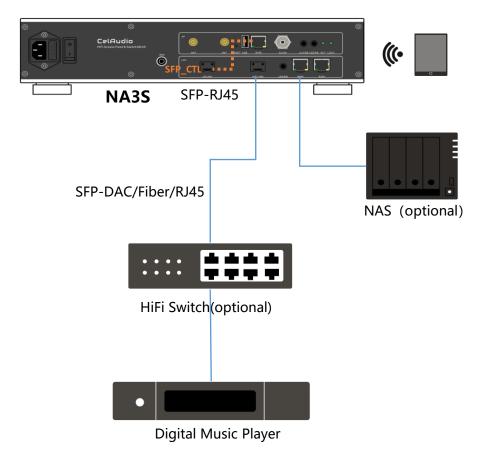
- No network cable near the digital music player
- Only listen to LAN music (no internet connection)
- No HiFi switch, but only digital music player connected
- NA3 provides SSID/DHCP/gateway services, replacing ordinary routers and high-grade linear power supplies to completely eliminate the impact of home main routers on sound quality
- Similar to USB product, purify the network signals of wireless terminals and reduce interference
- The acoustic signature of NA3 can enhance sound quality





AP+DHCP Mode: Scenario6

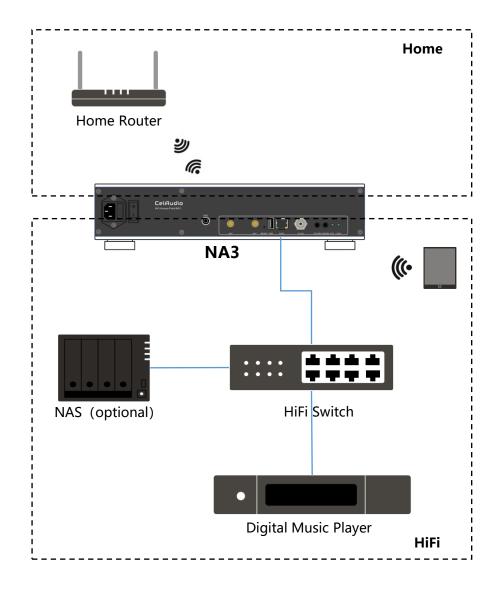




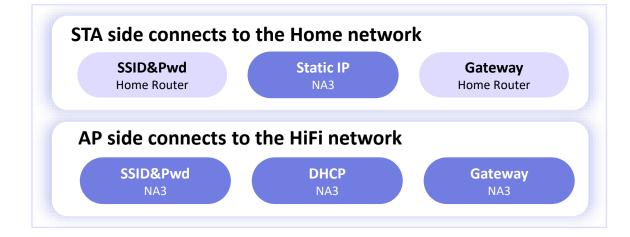
- No network cable near the digital music player
- Only listen to LAN music (no internet connection)
- HiFi switch (optional), can connect multiple devices
- Disconnect SFP_CTL will remove the wireless connection from the HiFi network. Wireless terminals will be unable to access the digital player, and with the interference from wireless terminals shielded. The digital player can still play LAN music normally



AP+STA Mode: Scenario7

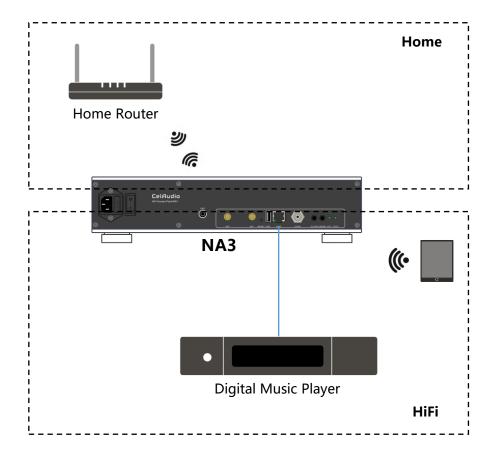


- No network cable near the digital music player
- Listen to both internet music and LAN music
- With a HiFi switch
- The wireless part of NA3 accessing the Home network is called STA, which is used for upstream Internet access, enabling the HiFi network to connect to the Internet so that the digital player can stream online music
- In this scenario, the STA requires a static IP, which can be set via the configuration interface

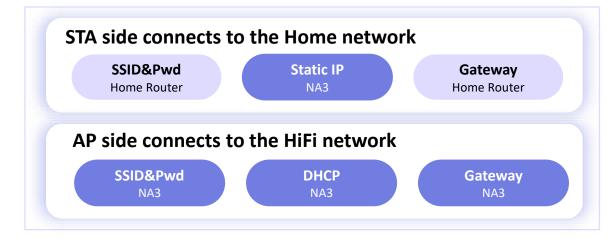




AP+STA Mode: Scenario8

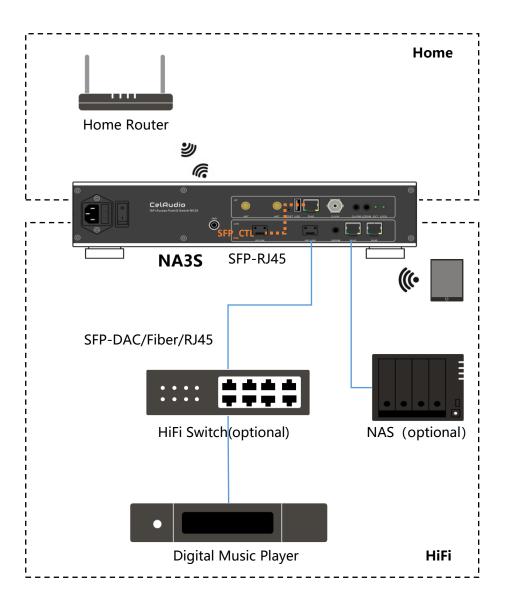


- No network cable near the digital music player
- Listen to both internet music and LAN music
- No HiFi switch, but only digital music player connected
- The wireless part of NA3 accessing the Home network is called STA, which is used for upstream Internet access, enabling the HiFi network to connect to the Internet so that the digital player can stream online music
- In this scenario, the STA requires a static IP, which can be set via the configuration interface





AP+STA Mode: Scenario9



- No network cable near the digital music player
- Listen to both internet music and LAN music
- HiFi switch (optional), can connect multiple devices
- The wireless part of NA3S accessing the Home network is called STA, which is used for upstream Internet access, enabling the HiFi network to connect to the Internet so that the digital player can stream online music
- In this scenario, the STA requires a static IP, which can be set via the configuration interface
- Disconnect SFP_CTL will remove the wireless connection from the HiFi network. Wireless terminals will be unable to access the digital player, and with the interference from wireless terminals shielded. The digital player can still play LAN music normally

