MMA-BT

Bluetooth Audio to Dante® 2x2 Wall Plate with PoE (EU/UK 1-Gang)

User Manual

VER 1.0

Thank you for purchasing this product

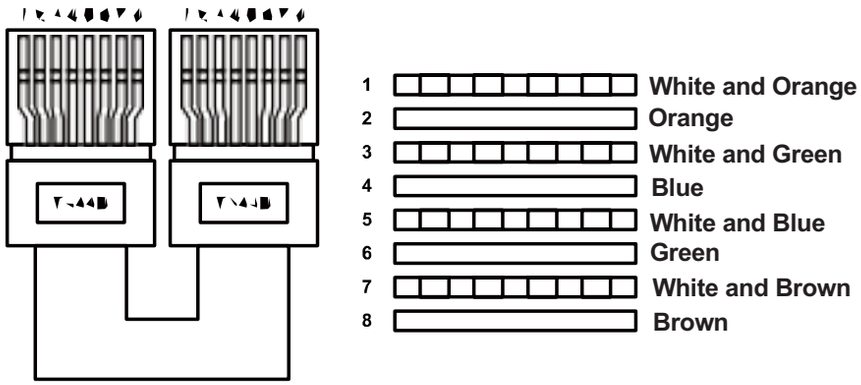
For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Caution

The network cable connection method required for this product is direct connection. Please do not cross connect.



Direct Interconnection Method

Table of Contents

1. Introduction

The Dante® 2x2 wall plate is designed as a standard EU/UK 1-Gang wall plate to convert 2 channels Bluetooth inputs to Dante® digital audio. This product can be controlled via front panel button, API commands using TCP/IP. A Web server/GUI is built in that features Bluetooth configuration and input control. Software configuration for this product allows for the Bluetooth name to be amended as required where being deployed in multi-user spaces.
The Dante® 2x2 wall plate is a plug & play device that is powered using PoE (Power over Ethernet), or via local 12V DC power supply, offers support for AES67 RTP audio transport. This product is the ideal BYOD interface to allow any Bluetooth device to stream audio wirelessly to a Dante® audio system.

2. Features

- ☆ Dante® network wall plate interface for Bluetooth inputs
- ☆ Bluetooth V5.1, SBC/AAC/APTX/APTX-LL/APTX-HD, up to 192KHz@24bit
- ☆ Configurable Bluetooth naming allows for simple device discovery
- ☆ The input supports switching among Bluetooth
- ☆ Bluetooth supports a maximum of 2 devices to be connected simultaneously
- ☆ Bluetooth supports volume adjustment, and the volume range is 0 ~ 100
- ☆ Bluetooth supports previous track/next track/pause functions
- ☆ Bluetooth supports displaying the album information of the audio source
- ☆ It supports upgrading the Bluetooth software via the USB-C port
- ☆ Dante® 44.1, 48, 88.2 & 96kHz sample rates @ 16, 24 or 32 Bit
- ☆ Configurable Dante® device latency (supports 2, 3, 4, 5 or 10ms configurable using Dante® Controller)
- ☆ Supports AES67 RTP audio transport
- ☆ Features Class 0 IEEE 802.3af PoE for powering of product from any PoE switch
- ☆ Power via local 12V DC adapter (not included) for when network switch does not support PoE
- ☆ Front panel button, TCP/IP, and Web GUI control

3. Package Contents

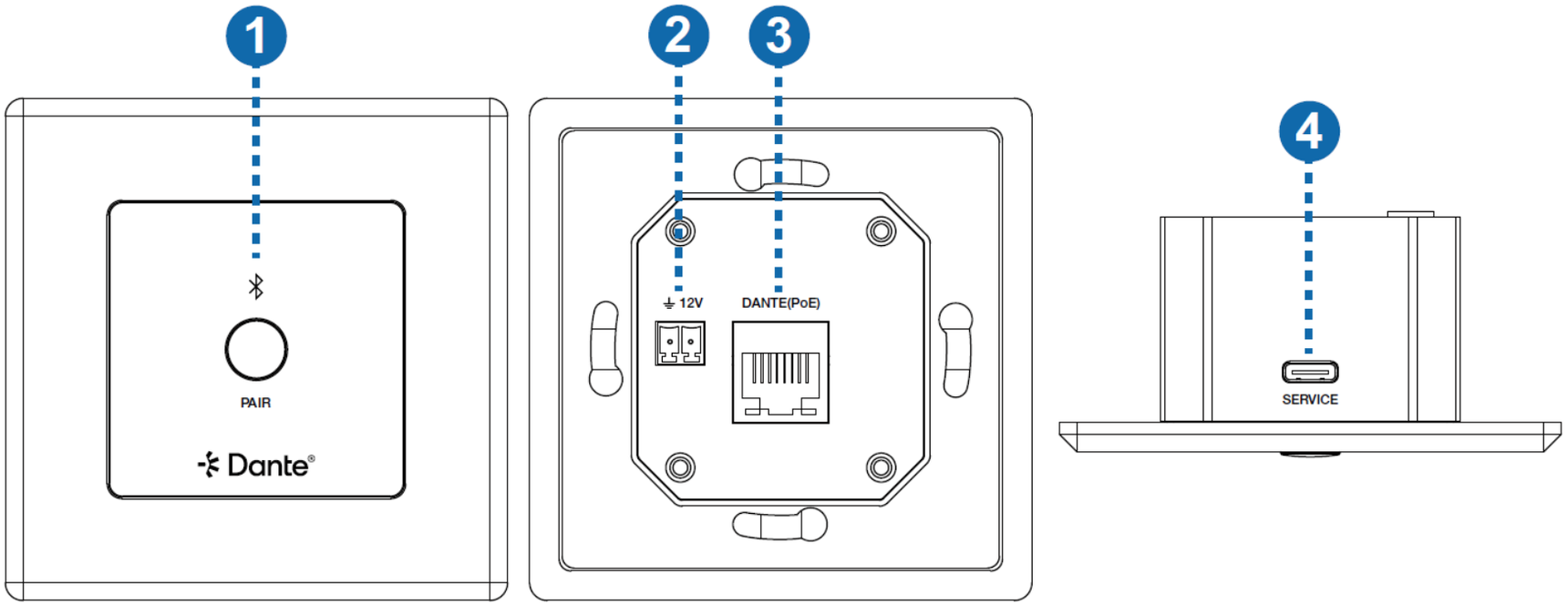
① 1x Bluetooth Audio to Dante® 2x2 Wall Plate
② 1x 2pin-3.5mm Phoenix Connector (male)
③ 1x Decorative Panel
④ 2x American Standard Slotted Semi-countersunk Head Screw (6#-32)
⑤ 2x Self-tapping Screw (-4*12)
⑥ 2x Rubber Gasket
⑦ 1x User Manual

4. Specifications

Technical	
Input	Two-channel Bluetooth audio
Output	Dante® digital audio
Control Method	Dante® Controller
Network Bandwidth	100Mbps
Audio Latency	Configurable Dante® device latency (Supports 2, 3, 4, 5 or 10ms configurable using Dante® Controller)
Audio Formats	**Bluetooth IN** [Digital audio input, V5.1, SBC/AAC/APTX/ APTX-LL/APTX-HD, 2CH, 44.1K-48KHz 16/24Bitt] **Dante® IN/OUT** [Digital audio 4CH, 44.1K-96KHz 16/24Bit]
Frequency Response	20Hz to 20kHz
Audio S/N Ratio	≥ 100dB
Audio THD+N	≤ 0.1%
Transmission Distance	328ft/100m (CAT6/6A/7)

ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Input	1x Bluetooth input [Digital audio, internal antenna] [Bluetooth in V5.1, SBC/AAC/APTX /APTX-LL/APTX-HD, 44.1K-48KHz 16/24Bit]
Output	1x DANTE(PoE) [RJ45 connector, supporting PoE] [Digital audio out, 44.1K-96KHz 16/24Bit]
Others	1x SERVICE [USB-C port, 12-pin female] 1x PAIR button with blue LED 1x DC 12V [2pin-3.5mm phoenix connector]
Mechanical	
Housing	Plastic panel + Aluminum alloy frame + Iron chassis
Color	White panel + Silver chassis
Dimensions	85mm [W] x 40mm [D] x 85 mm [H]
Weight	145g
Power Supply	DC input: 12V/1A PoE input: PoE IEEE802.3af Class 0
Power Consumption	1.8W (Max)
Operating Temperature	32°F ~ 104°F / 0°C ~ 40°C
Storage Temperature	-4°F ~ 140°F / -20°C ~ 60°C
Operating Humidity	20% ~ 80% (Relative humidity, non-condensing)
Storage Humidity	10% ~ 90% (Relative humidity, non-condensing)

5. Operation Controls and Functions



No.	Name	Function Description
1	PAIR button & LED	Bluetooth pairing button with blue LED. For operation details, please refer to the chapter of “6. Bluetooth Pairing Instruction”.
2	Power port	DC 12V/1A power input port.
3	DANTE (PoE) port	Dante® digital audio input/output port, connected to the Network Switch through RJ45 line, supporting PD power supply. The green LINK LED is always on after normal connection. The yellow DATA LED is flashing when there is data transmission.
4	SERVICE port	USB-C port, used for Bluetooth upgrade.

6. Bluetooth Pairing Instruction

The product can perform Bluetooth pairing and connection through the PAIR button on the front panel, the Bluetooth Discoverable/Pairing switch and the Window Time switch control on the Input page of Web GUI. In different scenarios, the status of the Pair LED varies, as detailed below.

(1) The default system status is as following.

Bluetooth Discoverable/ Pairing Switch	Window Time (30~300s) 60 Switch	Pair LED Status within 60s Window Time	Pair LED Status after 60s Window Time
ON	ON	Flashing: No device is connected. Steady on: 1 or 2 devices are connected.	Off: No device is connected. Steady on: 1 or 2 devices are connected.

Note: By default, the Bluetooth Discoverable/Pairing switch is set to ON, and the Window Time (30~300s) switch is set to 60s ON status. After 60s of power-on, the Bluetooth Discoverable/Pairing switch will automatically turn off.

(2) The PAIR button operation is associated with the Bluetooth Discoverable /Pairing switch and the Window Time switch control on the Input page of Web GUI.

Scene 1: The Window Time switch is set to OFF.

Short press the PAIR button to start Bluetooth pairing and connection, the status changes are as follows.

Bluetooth Discoverable/ Pairing Switch	Window Time (30~300s) Switch	Pair LED Status
OFF → ON	OFF → OFF	Flashing: No device is connected. Steady on: 1 or 2 devices are connected.

In this situation, there is no time limit for Bluetooth discovery and pairing mode (with high power consumption). To end the Bluetooth discovery and pairing mode, you can long press the PAIR button for 15 seconds to reset the system to default status; or directly turn off the Bluetooth Discoverable/Pairing switch on the Input page of Web GUI interface.

Scene 2: The Window Time switch is set to ON, and the time is set in the range of 30~300 seconds as need.

Short press the PAIR button to start Bluetooth pairing and connection, the status changes are as follows.

Bluetooth Discoverable/ Pairing Switch	Window Time (30~300s) Switch	Pair LED Status within the user-set Window Time	Pair LED Status after the user-set Window Time
OFF → ON	ON → ON	Flashing: No device is connected. Steady on: 1 or 2 devices are connected.	Off: No device is connected. Steady on: 1 or 2 devices are connected.

In this situation, the user-set Window Time is the time limit for Bluetooth discovery and pairing mode.

To prematurely end the pairing mode and reduce power consumption, you can long press the PAIR button for 15 seconds to reset the system to default status; or directly turn off the Bluetooth Discoverable/Pairing switch on the Input page of Web GUI interface.

(3) When the device is connected to one device, the control logic is as described above, and the LED remains constantly on.

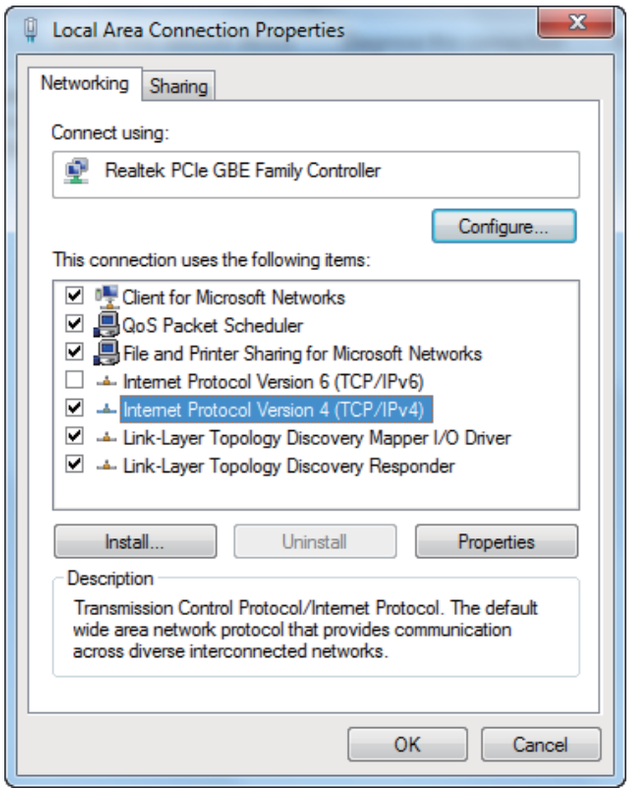
Notes:
(1) The maximum number of Bluetooth connections is two devices. After connecting to two devices, if you press the PAIR button on the front panel, the pair LED will flash three times, indicating no more device can be connected. At this point, the Web control is still available, if you set Bluetooth Discoverable/Pairing to ON, and Window Time to OFF, you need to disconnect at least one connected Bluetooth device for the Bluetooth to search and connect the third device.
(2) If two Bluetooth devices are connected simultaneously, the audio will only be switched to the second device when the Bluetooth device that is currently playing pauses or disconnects.
(3) You can disconnect the Bluetooth connection by clicking the Disconnect button of Connected Device 1/2 on the Input page of Web GUI. After that, the pairing information is saved in the Bluetooth module. Subsequently, the mobile device can directly click to connect to the Bluetooth device, without the need for the machine to enter the pairing mode through button pressing or Web GUI operations.
(4) If you press and hold the PAIR button for 3 seconds, or click the Clear button of Bluetooth Pairing Record on the Input page of Web GUI, the Bluetooth module will clear all pairing information, and devices that have been connected before will need to perform Bluetooth pairing again. (For devices that have been connected before, you need to follow the prompts on your phone to ignore the device first, and then reconnect to Bluetooth.)

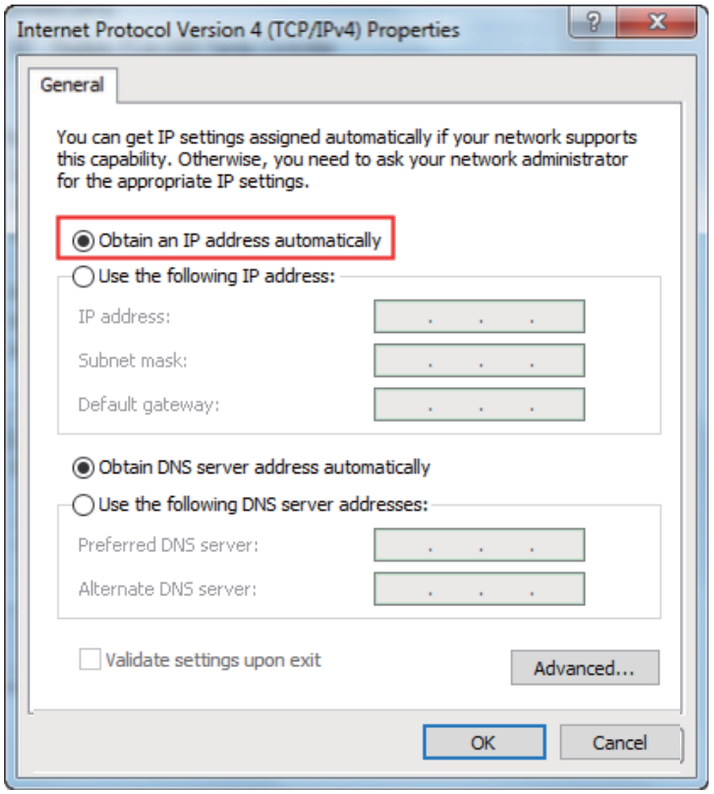
7. Dante® Web GUI Operation Guide

The product can be controlled by the built-in Dante® Web GUI.
The operation steps are as following.

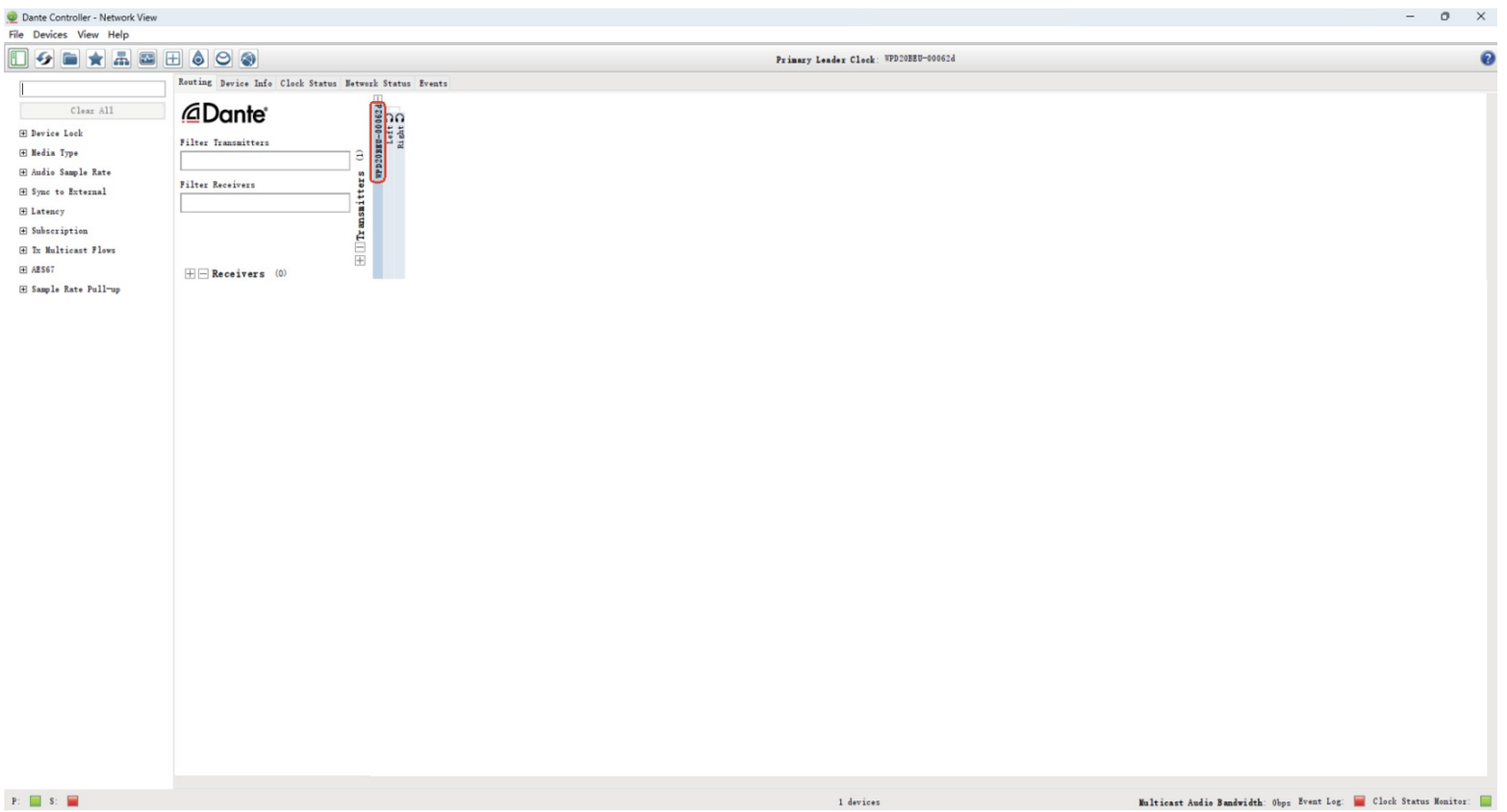
Step 1: Connect the DANTE(PoE) port of the product to an Ethernet Switch.

Step 2: Connect a PC to the same Ethernet Switch, and set the Network connection setting of PC to be “Obtain an IP address Automatically”.

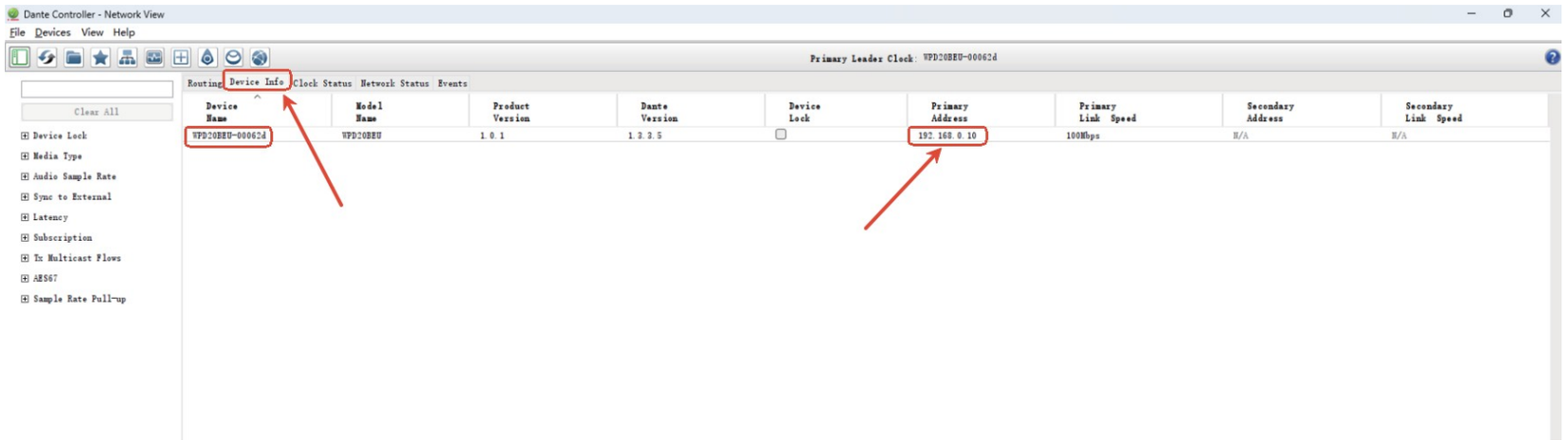




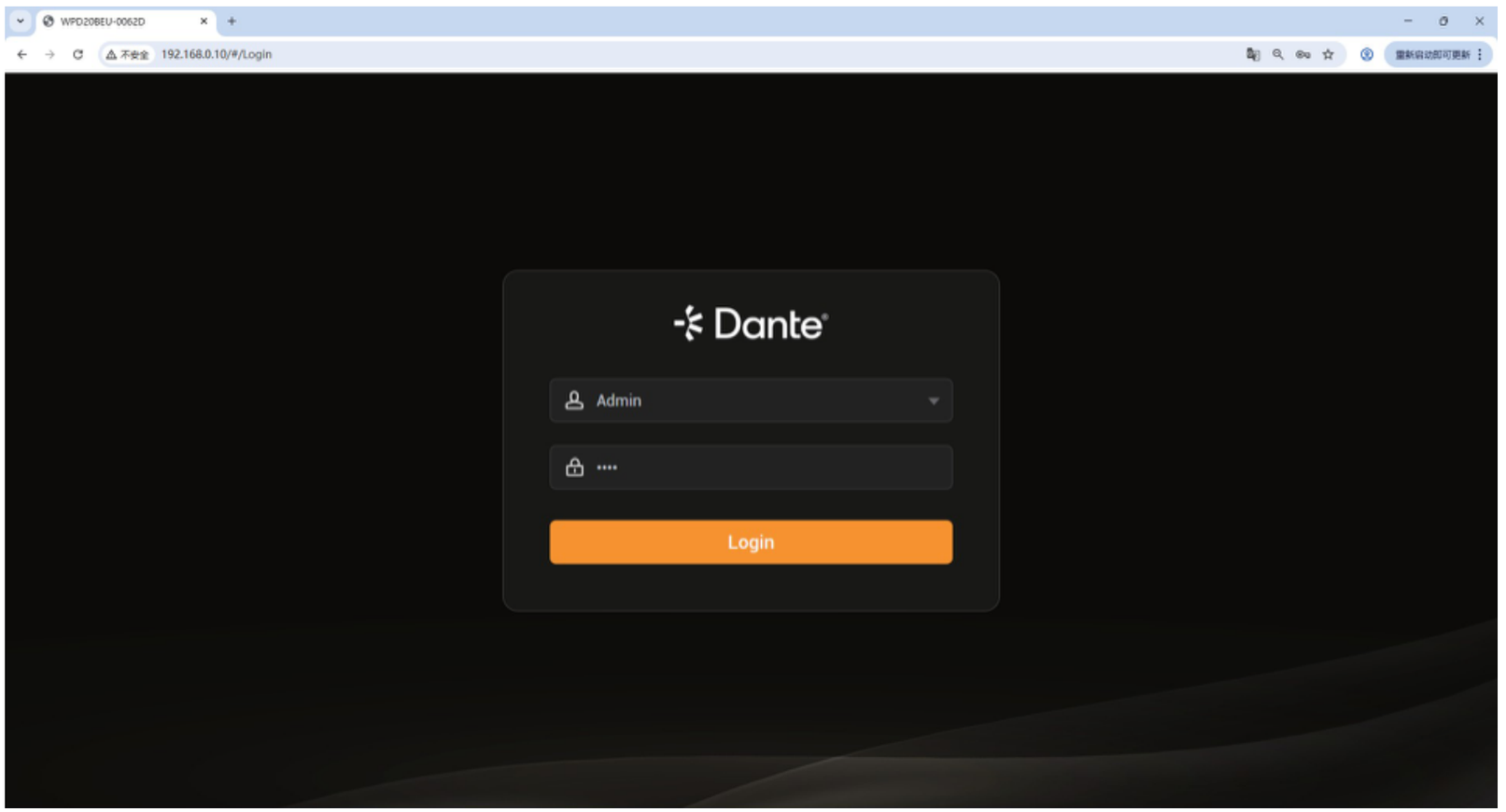
Step 3: Open the Dante® Controller software on the PC, and find the Dante® device on the Routing page, as shown in the figure below.



Step 4: Click the Device Info tab to check the IP address of the Dante® device.
Note: The product is set to DHCP mode by default, and users need to check the device IP address through the Dante® Controller.



Step 5: Input the IP address of Dante® device into your browser on the PC to enter the login interface of the Dante® Web GUI.

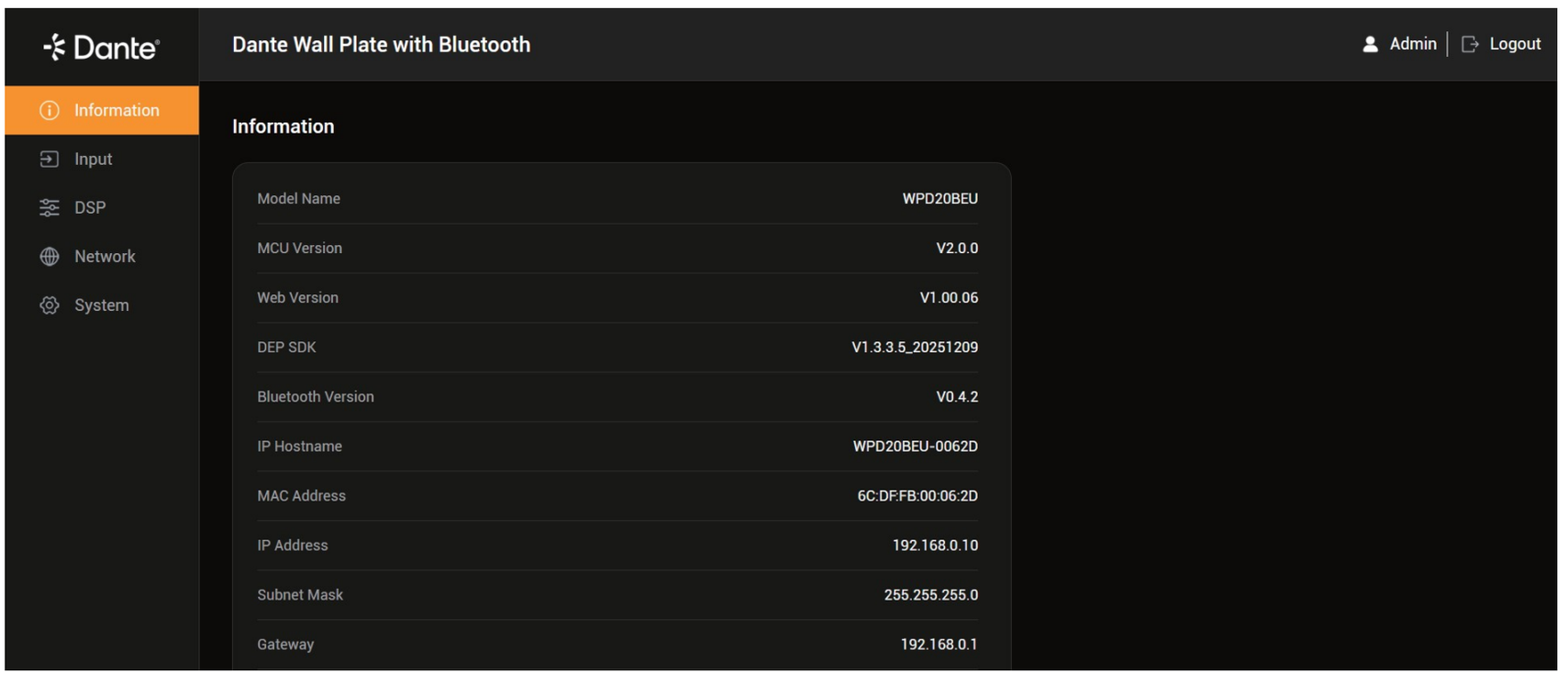


The default usernames and passwords are as below:

Username	Password
Admin	1234
User	1234

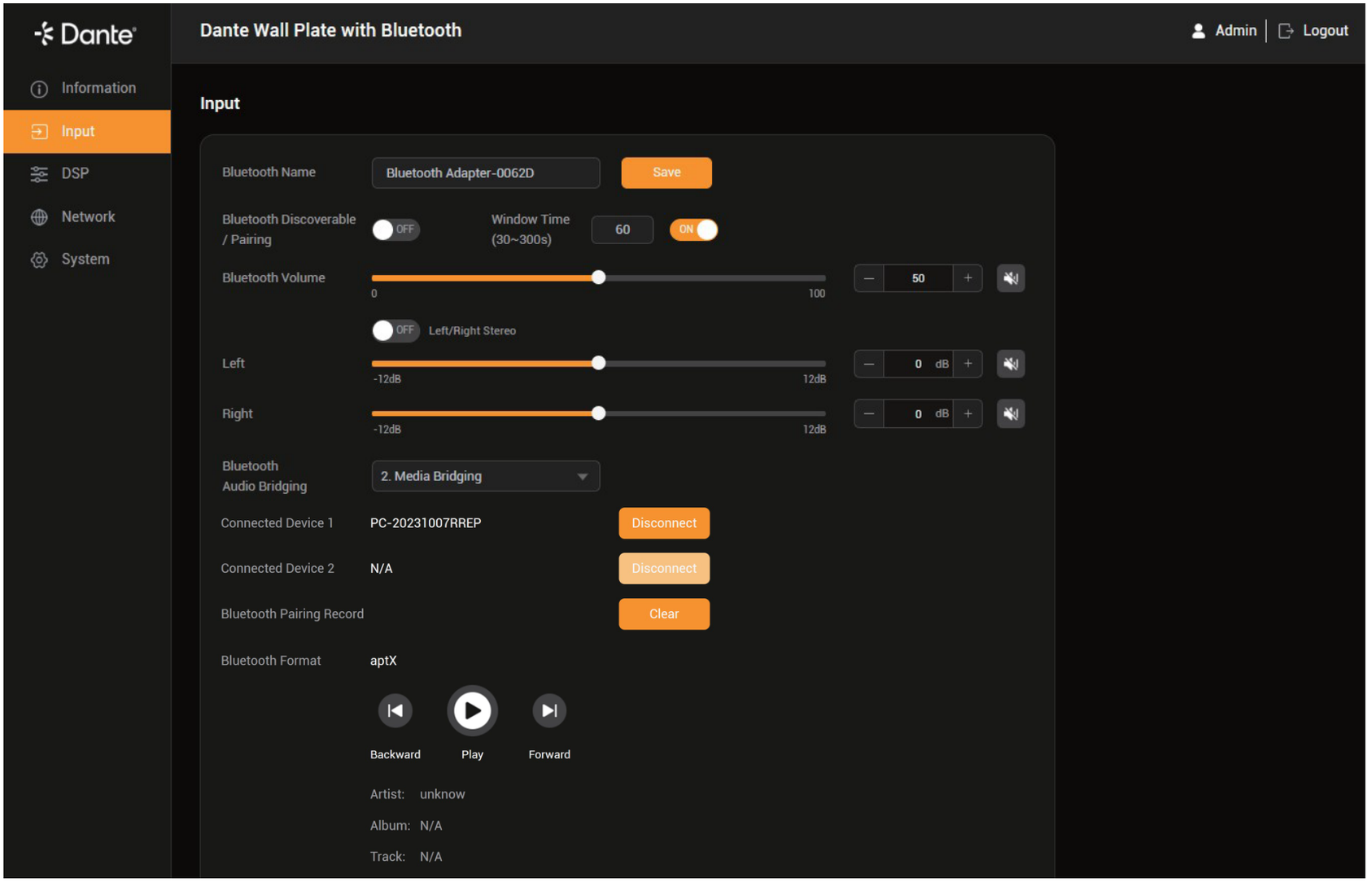
Step 6: Select the default username “Admin” and input the password “1234”, then click the “Login” button to enter the Information page of Dante® Web GUI.

■ Information Page



This page provides basic information about the product, such as Model Name, MCU Version, Web Version, DEP SDK, Bluetooth Version, IP Hostname, and network configuration. Besides, click the Logout icon in the upper right corner will logout and return to the login interface.

■ Input Page



Input Setting

① **Bluetooth Name:** The Bluetooth name can be modified as required (24 bytes max). After modification, please click Save to take effect.

② **Bluetooth Discoverable/Pairing:** Click the switch to turn on/off the Bluetooth discovery and pairing mode.

③ **Window Time (30~300s):** Enter the value in the input box to set the Bluetooth activate window time (60s by default), which is the limit time for Bluetooth discovery and pairing. Click the switch on the right to turn on/off the Bluetooth activate window time.

④ **Bluetooth Volume:** Directly input the value, or drag the slider to set the Bluetooth audio volume, or click the mute icon to mute/unmute the audio. If the Left/Right Stereo switch is set to ON, the gain value of right and left channels can be set simultaneously; If the switch is set to OFF, the gain value of right/left channel can be set respectively.

⑤ **Bluetooth Audio Bridging:** Click the drop-down list to set the Bluetooth audio bridging (Call bridging/Media bridging/Call & Media bridging).

Call bridging: Call mode, only playing the call audio source.

Media bridging: Media mode, only playing the audio source of the media stream.

Call & Media bridging: Call and media mode, supporting both the call audio source and media stream source.

⑥ **Connected Device 1/2:** Display the name of the connected Bluetooth device (Display N/A when no device is connected). Clicking the Disconnect button on the right can disconnect the device. If you press the PAIR button on the front panel when two devices are already connected, the pair LED will flash three times, indicating no more device can be connected.

⑦ **Bluetooth Pairing Record:** Click the Clear button on the right to clear all Bluetooth pairing information.

⑧ **Bluetooth Format:** Display the Bluetooth audio transmission format.

⑨ **Backward/Play/Forward:** Click the corresponding button to play the previous song/play/pause/play the next song.

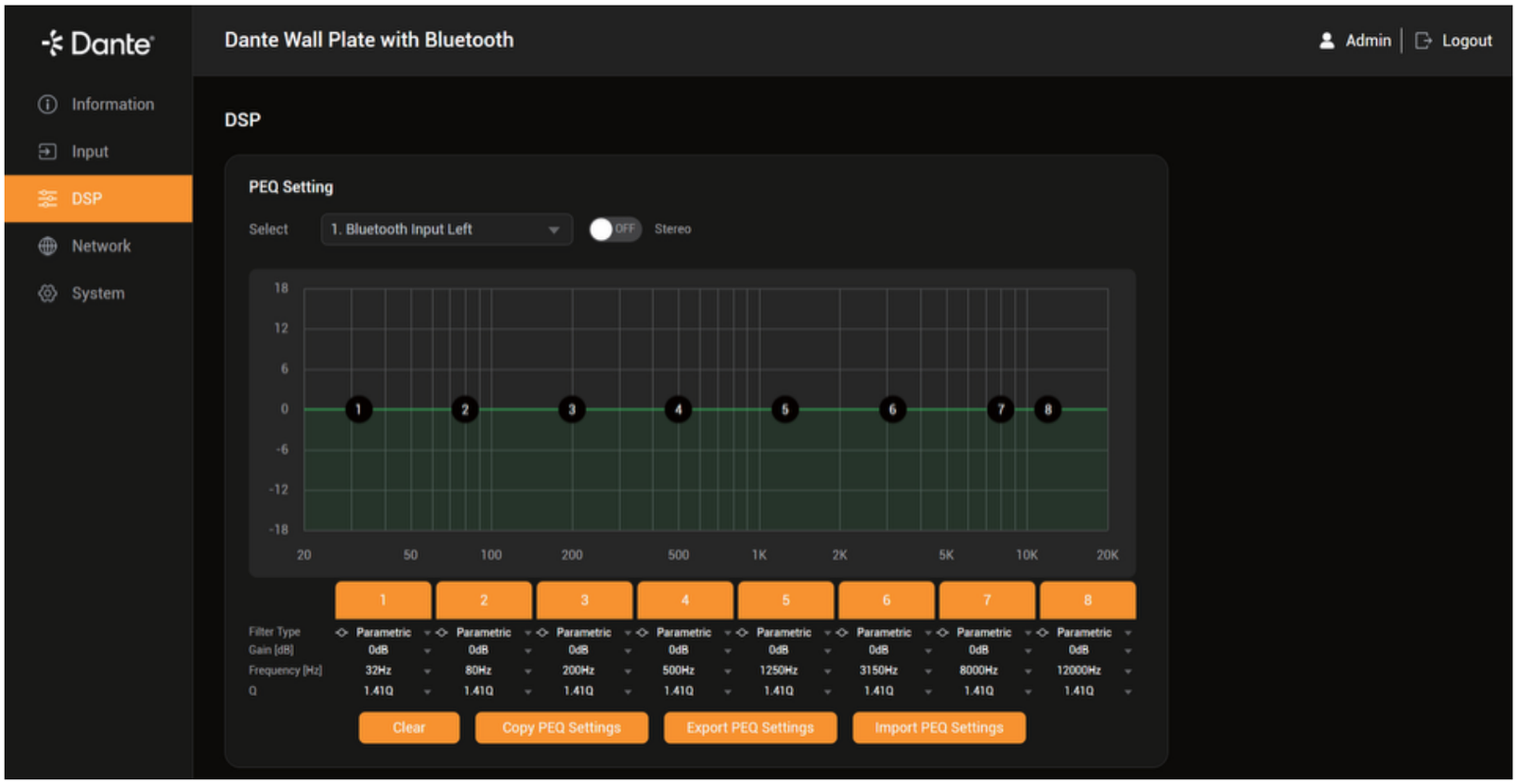
⑩ **Artist/Album/Track:** Display the song information, including artist, album, track, etc.

■ DSP Page

PEQ Setting

① **Select:** Click the drop-down list to select the audio input channel.

② **Stereo:** Click the switch to turn on/off the stereo mode. When set to ON, the PEQ of right and left channels can be set simultaneously; When set to OFF, the PEQ of right/left channel can be set respectively.



③ **Frequency point (1~8):** Eight frequency points support drag control.

④ **1/2/3/4/5/6/7/8:** 8 band buttons of PEQ. Orange grid indicates that the corresponding band is selected, and then you can set the parameters for it as following.

Filter Type: Click the drop-down icon, then select the filter type (Parametric/ Lowpass/Highpass/Low Shelf/High Shelf).

Gain [dB]: Click the drop-down icon, then directly input the value or drag the slider to set the gain value [-15dB~+15dB].

Frequency [Hz]: Click the drop-down icon, then directly input the value or drag the slider to set the frequency [20~20kHz].

Q: Click the drop-down icon, then directly input the value or drag the slider to set the Q value [0.02~16].

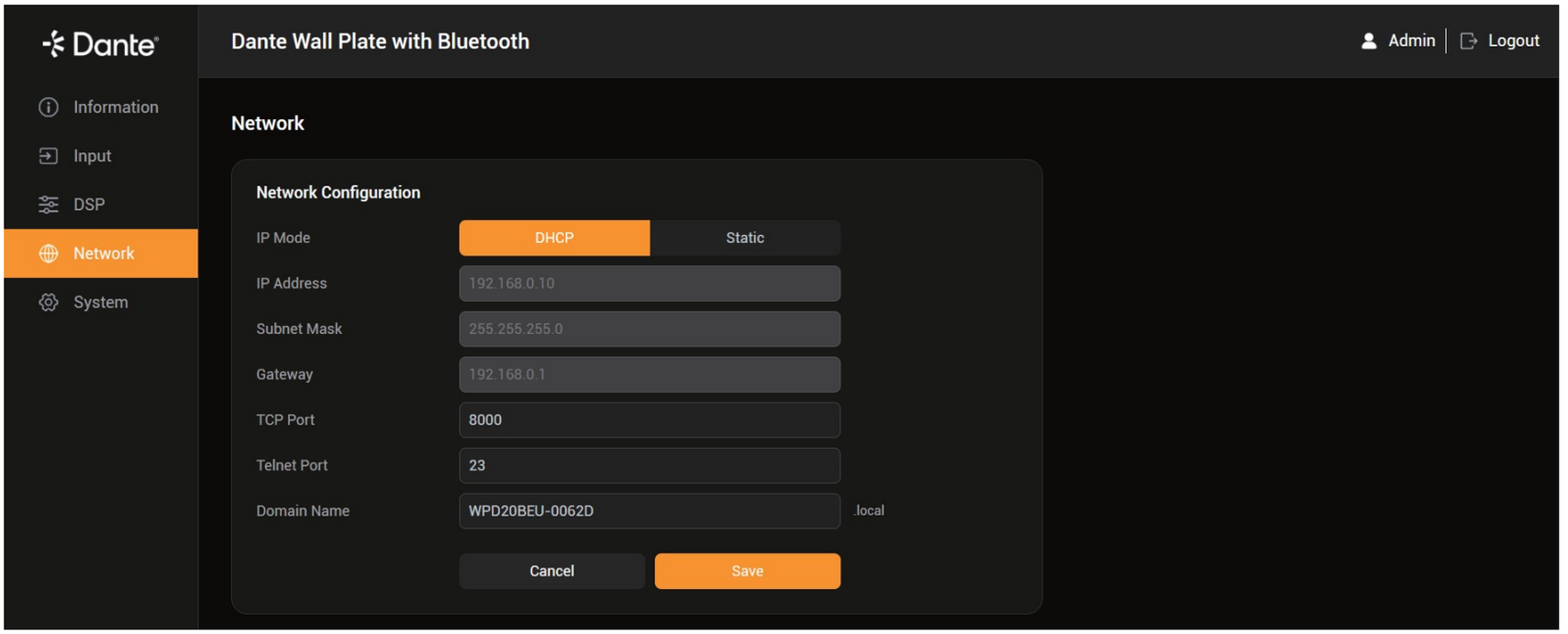
⑤ **Clear:** Click the button to clear the PEQ settings.

⑥ **Copy PEQ Settings:** Click the button and check channels, then click Update to copy PEQ settings to the selected input channels.

⑦ **Export PEQ Settings:** Click the button to export PEQ settings.

⑧ **Import PEQ Settings:** Click the button to import PEQ settings.

■ Network Page



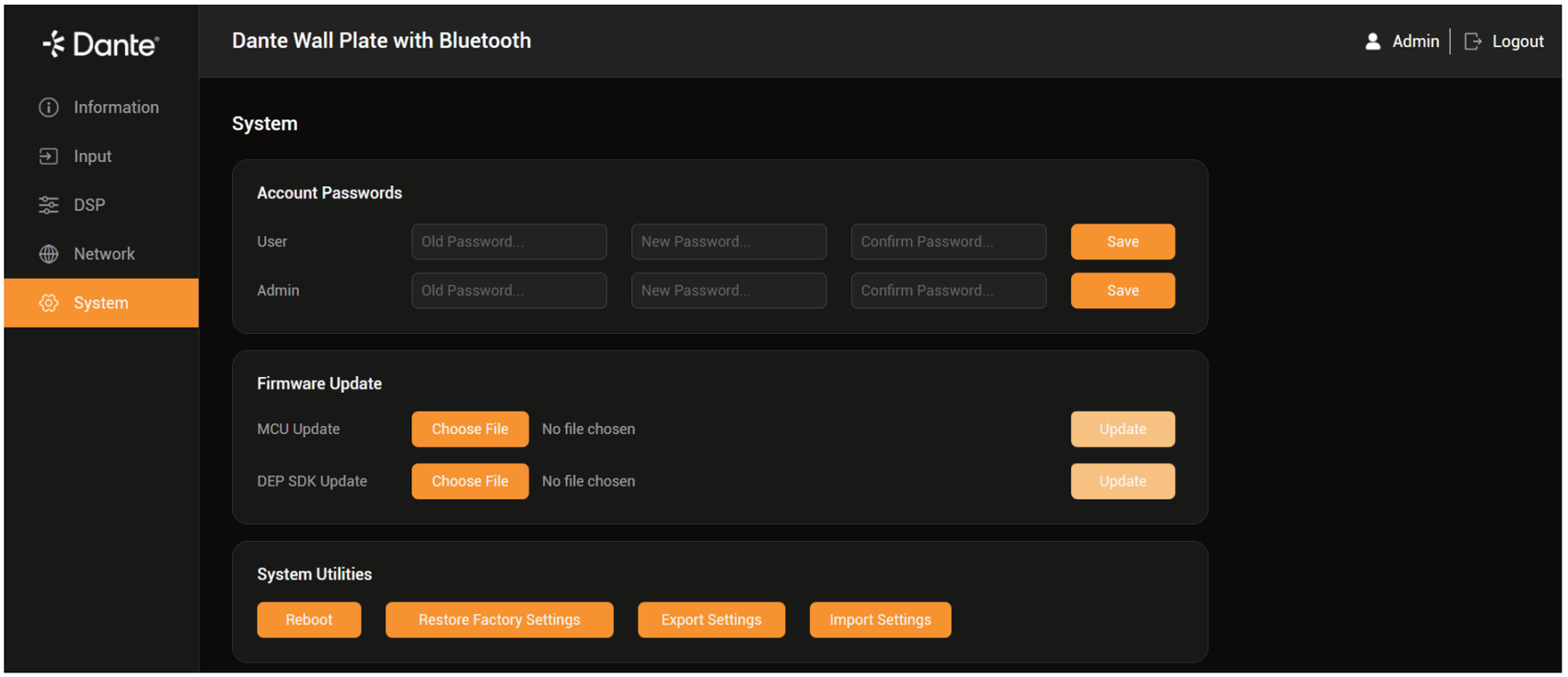
Network Configuration: Select to set the IP Mode (DHCP/Static). When Static is selected, you can manually set the IP Address, Subnet Mask and Gateway as required, then click “Save” to take effect. When DHCP is selected, the system will search and fill the IP address with the one assigned by the router automatically.

In addition, you can set the TCP Port, Telnet Port and Domain Name.

Note: The Domain Name displayed as the IP Hostname (for example: “WPD20BEU-0062D.local") can be used to log in to the Dante® Web GUI. The Domain Name “WPD20BEU-XXXXX.local” is variable for different machines, and can be modified (32 characters max).

After setting up, click “Save” to take effect, or you can click “Cancel” to cancel the settings.

■ System Page



Account Passwords: You can modify the login password for User and Admin. After setting up, click “Save” to take effect.

Firmware Update: You can update the MCU and DEP SDK. Click “Choose File” to select the update file, then click “Update” to start update. When the progress bar reaches 100%, the update is complete.

System Utilities

① **Reboot:** Click this button to reboot the device.

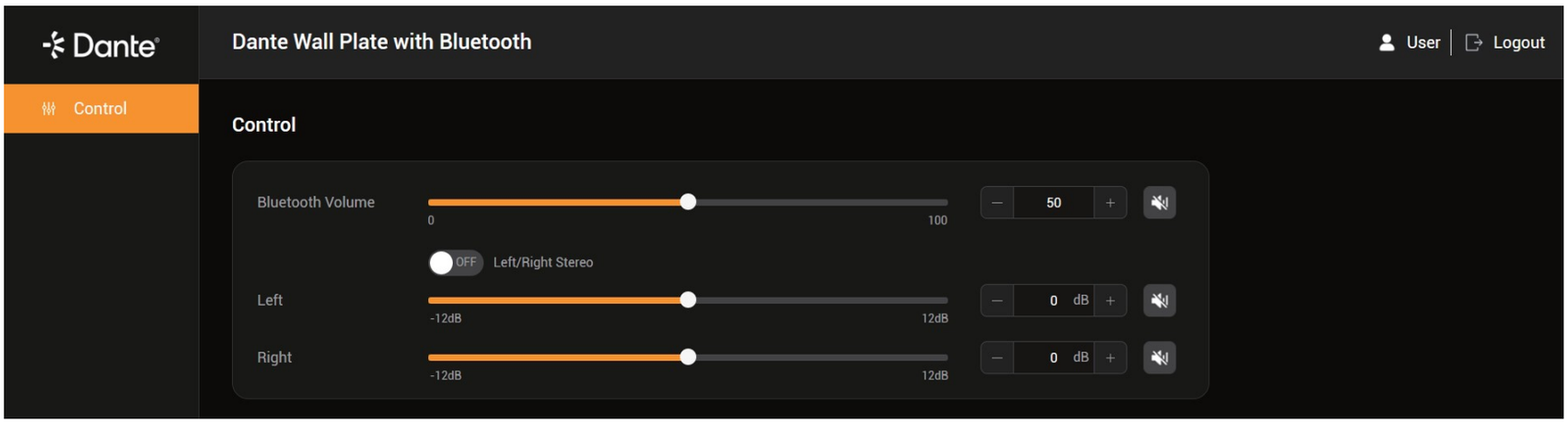
② **Restore Factory Settings:** Click this button to restore the device to factory settings.

③ **Export Settings:** Click this button to export configuration files.

④ **Import Settings:** Click this button to import configuration files.

In the Login interface, select the username “User” and input the password “1234”, then click the “Login” button to enter the User page.

■ User Page



Control

Bluetooth Volume: Directly input the value, or drag the slider to set the Bluetooth audio volume or mute/unmute the audio. If the Left/Right Stereo switch is set to ON, the gain value of right and left channels can be set simultaneously; If the switch is set to OFF, the gain value of right/left channel can be set respectively.

8. API Commands

The product supports API commands control. Connect the DANTE(PoE) port of the product and a PC to the same Switch, and set all devices in the same LAN. Then open a serial command tool on PC to send API commands to control the adapter.

The supported commands are as following.

API Commands				
Communication protocol TCP/IP Port: 8000 x - Parameter 1, y - Parameter 2				
Command	**Function**	**Example**	**Feedback**	**Factory Default**
System Setting				
?	Get the list of all commands	?	List all commands	
help	Get the list of all commands	help	List all commands	
get type	Get device model	get type	WPD20BEU	
get status	Get system status	get status	Please refer to the note for “get status”.	
get fw version	Get firmware version	get fw version	MCU:Vx.x.x WEB:Vx.x.x DEP:Vx.x.x Bluetooth: Vx.x.x	
set reboot	Reboot the device	set reboot	Reboot…	
set reset	Reset system settings to default (Should type "Yes" to confirm, "No" to discard)	set reset	Sure to reset system settings to default? Type "yes" after next prompt to confirm…	
set reset all	Reset system and network settings to default (Should type "Yes" to confirm, "No" to discard)	set reset all	Sure to reset system and network settings to default? Type "yes" after next prompt to confirm…	
Input Setting				
set input x stereo on/off	Set input:x stereo mode on/off x=[1] 1:Bluetooth input left/right	set input 1 stereo on	Bluetooth input left/right stereo mode: on	off
get input x stereo	Get input:x stereo mode on/off status x=[1] 1:Bluetooth input left/right	get input 1 stereo	Bluetooth input left/right stereo mode: on	

Command	Function	Example	Feedback	Factory Default
set input x gain y	Set input:x gain to y x=[0-2] 0:All inputs, 1:Bluetooth input left, 2:1:Bluetooth input right y=[-12~12]dB input gain value, Step=0.1dB	set input 1 gain 10	Bluetooth input left gain: 10dB	0dB
get input x gain	Get input:x gain value x=[0-2] 0:All inputs, 1:Bluetooth input left, 2:Bluetooth input right	get input 1 gain	Bluetooth input left gain: 10dB	
set input x gain+ set input x gain+y	Increase input:x gain by y x=[0-2] 0:All inputs, 1:Bluetooth input left, 2:Bluetooth input right y=[0.1-24]:Steps, y can be empty (Step=1dB)	set input 1 gain+ set input 1 gain+5	Bluetooth input left gain: 1dB Bluetooth input left gain: 5dB	
set input x gain- set input x gain-y	Decrease input:x gain by y x=[0-2] 0:All inputs, 1:Bluetooth input left, 2:Bluetooth input right y=[0.1-24]:Steps, y can be empty (Step=1dB)	set input 1 gain- set input 1 gain-5	Bluetooth input left gain: -1dB Bluetooth input left gain: -5dB	
set input x mute on/off	Set input:x mute on/off x=[0-2] 0:All inputs, 1:Bluetooth input left, 2:Bluetooth input right	set input 1 mute on	Bluetooth input left mute: on	off
get input x mute	Get input:x mute on/off x=[0-2] 0:All inputs, 1:Bluetooth input left, 2:Bluetooth input right	get input 1 mute	Bluetooth input left mute: on	

Command	Function	Example	Feedback	Factory Default
set bt name <x>	Set Bluetooth device name Bluetooth name length should be within 24 bytes	set bt name <Bluetooth Adapter> set bt name <ABC>	Set Bluetooth device name to Bluetooth Adapter-12345 Set Bluetooth device name to ABC	Bluetooth Adapter-12345 12345 = Mac address last 5 letters
get bt name	Get Bluetooth device name	get bt name	Bluetooth Adapter-123456	12345 = Mac address last 5 letters
set bt discoverable/ pairing on/off	Set Bluetooth discoverable /pairing on/off	set bt discoverable/ pairing on	Bluetooth discoverable/pairing on	on (60s)
get bt discoverable/ pairing	Get Bluetooth discoverable /pairing status	get bt discoverable/ pairing	Bluetooth discoverable/pairing on	
set bt window time x	Set Bluetooth activate window time to x x=[30-300] seconds	set bt window time 60	Bluetooth window time: 60s	60s
get bt window time	Get Bluetooth activate window time	get bt window time	Bluetooth window time: 60s	
set bt window switch on/off	Set Bluetooth window switch on/off	set bt window switch on	Bluetooth window switch: on	on
get bt window switch	Get Bluetooth window switch status	get bt window switch	Bluetooth window switch: on	
set bt vol x	Set Bluetooth volume to x x=[0-100] volume value	set bt vol 10	Bluetooth volume: 10	50
get bt vol	Get Bluetooth volume	get bt vol	Bluetooth volume: 10	
set bt vol+ set bt vol+x	Increase Bluetooth volume Increase Bluetooth volume by x x=[1-100]:Steps, x can be empty(Step=1)	set bt vol+ set bt vol+5	Bluetooth volume: 11 Bluetooth volume: 15	

Command	Function	Example	Feedback	Factory Default
set bt vol- set bt vol-x	Decrease Bluetooth volume Decrease Bluetooth volume by x x=[1-100]:Steps, x can be empty(Step=1)	set bt vol- set bt vol-5	Bluetooth volume: 9 Bluetooth volume: 5	
set bt mute on/off	Set Bluetooth mute on or off	set bt mute on	Bluetooth mute: on	
get bt mute	Get Bluetooth mute status	get bt mute	Bluetooth mute: on	
set bt audio bridging x	Set Bluetooth audio bridging to x x=[1-3] 1:Call bridging, 2:Media bridging, 3:Call & Media bridging	set bt audio bridging 1	Bluetooth audio bridging: Call bridging	2:Media bridging
get bt audio bridging	Get Bluetooth audio bridging	get bt audio bridging	Bluetooth audio bridging: Call bridging	
get bt connection	Get Bluetooth connection status	get bt connection	Connected device1: Connected Connected device2: Disconnected	
get bt device	Get Bluetooth connected device name	get bt device	Connected device1: HUAWEI P30 Pro Connected device2: N/A	
set bt paired clear x	Clear Bluetooth paired device x x=[0-2] 0:All, 1:device1, 2:device2	set bt paired clear 0 set bt paired clear 1	Clear Bluetooth paired devices Clear Bluetooth paired device1	
get bt format	Get Bluetooth audio transmission format	get bt format	Bluetooth format: SBC	

Command	Function	Example	Feedback	Factory Default
set bt backward	Set Bluetooth to play the previous song	set bt backward	Bluetooth backward	
set bt play/ pause	Set Bluetooth to play or pause	set bt play/ pause	Bluetooth play	
set bt forward	Set Bluetooth to play the next song	set bt forward	Bluetooth forward	
get artist	Get the artist information of the song	get artist	Artist: xxxxxxx	
get album	Get the album information of the song	get album	Album: xxxxxxx	
get track	Get the track information of the song	get track	Track: xxxxxxxx	
DSP Setting				
set x eq y on/off	Set x EQ index:y on/off x=[0-2] 0:All inputs, 1:Bluetooth input left, 2:Bluetooth input right y=[0-8]: EQ index 0:All	set 1 eq 0 on	Bluetooth input left EQ: on	Off
get x eq	Get x EQ on/off status x=[0-2] 0:All inputs, 1:Bluetooth input left, 2:Bluetooth input right	get 1 eq	Bluetooth input left EQ: on	
set x eq stereo on/off	Set x EQ stereo mode (same EQ settings) on/off x=[1] 1:Bluetooth input left/ right	set 1 eq stereo on	Bluetooth input left/ right EQ stereo mode: on	Off
get x eq stereo	Get x EQ stereo mode (same EQ settings) on/off status x=[1] 1:Bluetooth input left/ right	get 1 eq stereo	Bluetooth input left/ right EQ stereo mode: on	

Command	Function	Example	Feedback	Factory Default
set x eq y typ t frq z val aa q bb	Set x EQ index:y TYP t to FRQ z VAL aa Q bb x=[0-2] 0:All inputs, 1:Bluetooth input left, 2:Bluetooth input right y=[0-8]: EQ index 0:All t=[1-5] 1:Parametric, 2:Lowpass, 3:Highpass, 4:Low Shelf, 5:High Shelf z=[20-20000]: Frequency value (Step=1Hz) aa=[-15~15]: Gain value (Step=0.1dB) bb=[0.02~16]: Q value (Step=0.01)	set 1 eq 1 typ 1 frq 200 val -15 q 0.02	Bluetooth input left EQ 1: Type: 3, Frequency: 200Hz, Value: -15dB, Q: 0.02	
get x eq setting	Get x EQ index:y value x=[0-2] 0:All inputs, 1:Bluetooth input left, 2:Bluetooth input right	get 1 eq	Bluetooth Input Left EQ 1: Type: 1, Frequency: 32Hz, Value: 0dB, Q: 1.41 2: Type: 1, Frequency: 80Hz, Value: 0dB, Q: 1.41 3: Type: 1, Frequency: 200Hz, Value: 0dB, Q: 1.41 4: Type: 1, Frequency: 500Hz, Value: 0dB, Q: 1.41 5: Type: 1, Frequency: 1250Hz, Value: 0dB, Q: 1.41 6: Type: 1, Frequency: 3150Hz, Value: 0dB, Q: 1.41 7: Type: 1, Frequency: 8000Hz, Value: 0dB, Q: 1.41 8: Type: 1, Frequency: 12000Hz, Value: 0dB, Q: 1.41	
set x eq clear	Clear x EQ setting x=[0-2] 0:All inputs, 1:Bluetooth input left, 2:Bluetooth input right	set 1 eq clear	Clear Bluetooth input left EQ	

Command	Function	Example	Feedback	Factory Default
set x eq copy to y	Set x EQ copy to y x=[1-2] 1:Bluetooth input left, 2:Bluetooth input right y=[0-2] 0:All inputs, 1:Bluetooth input left, 2:Bluetooth input right	set 1 eq copy to 2	Set Bluetooth input left EQ copy to Bluetooth input right	
Network Setting				
get ipconfig	Get the current IP configuration	get ipconfig	IP mode: DHCP IP: 192.168.62.106 Subnet mask: 255.255.255.0 Gateway: 192.168.62.1 TCP/IP port: 8000 Telnet port: 23 MAC: 6C:DF:FB:0C:B3:8E (Static: 169.254.100.200 255.255.0.0 169.254.100.1)	
get mac addr	Get network MAC address	get mac addr	MAC: 6C:DF:FB:0C:B3:8E	
set ip mode x	Set network IP mode to static IP or DHCP x=[0-1] 0.Static, 1.DHCP	set ip mode 0	IP mode: Static (Please use "set net reboot" command or repower device to apply new config!)	1
get ip mode	Get network IP mode	get ip mode	IP mode: DHCP	

Command	Function	Example	Feedback	Factory Default
set ip addr xxx.xxx.xxx.xxx	Set network IP address	set ip addr 192.168.1.100	IP address: 192.168.0.100 (Please use "set net reboot" command or repower device to apply new config!) DHCP on, Device can't config static address, set DHCP off first.	
get ip addr	Get network IP address	get ip addr	IP: 192.168.0.100	
set subnet xxx.xxx.xxx.xxx	Set network subnet mask	set subnet 255.255.255.0	Subnet mask: 255.255.255.0 (Please use "set net reboot" command or repower device to apply new config!) DHCP on, Device can't config subnet mask, set DHCP off first.	
get subnet	Get network subnet mask	get subnet	Subnet mask: 255.255.255.0	
set gateway xxx.xxx.xxx.xxx	Set network gateway	set gateway 192.168.1.1	Gateway: 192.168.1.1 (Please use "set net reboot" command or repower device to apply new config!) DHCP on, Device can't config gateway, set DHCP off first.	
get gateway	Get network gateway	get gateway	Gateway: 192.168.1.1	
set tcp/ip port x	Set network TCP/IP port (x=1-65535)	set tcp/ip port 8000	TCP/IP port: 8000	8000

Command	Function	Example	Feedback	Factory Default
get tcp/ip port	Get network TCP/IP port	get tcp/ip port	TCP/IP port: 8000	
set telnet port x	Set network telnet port (x=1-65535)	set telnet port 23	Telnet port: 23	23
get telnet port	Get network telnet port	get telnet port	Telnet port: 23	
set net reboot	Reboot network modules	set net reboot	Network reboot… Search for IP, Please wait ...! IP mode: DHCP IP: 192.168.62.106 Subnet mask: 255.255.255.0 Gateway: 192.168.62.1 TCP/IP port: 8000 Telnet port: 23 MAC: 6C:DF:FB:0C:B3:8E (Static: 169.254.100.200 255.255.0.0 169.254.100.1)	
set net hostname xxxx	Set network hostname to xxxx (x=[32 characters max])	set net hostname 1234	Hostname: 1234	
get net hostname	Get network hostname	get net hostname	Hostname: 1234	
Password Setting				
set admin password x	Set admin login password (x=[16 characters max])	set admin password 1234	admin password: 1234	1234
get admin password	Get admin login password	get admin password	admin password: 1234	
set user password x	Set user login password (x=[16 characters max])	set user password 1234	user password: 1234	1234
get user password	Get user login password	get user password	user password: 1234	

Note: The feedback of the command of “get status” is as following.

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Status Info 2x2 Dante Wall Plate with Bluetooth
MCU:V2.0.0 WEB:V1.00.01 DEP:V1.3.3.5_20250520 Bluetooth:V0.4.0

Input	Name	Stereo	Gain(dB)	Mute
01	Bluetooth input left	On	0	Off
02	Bluetooth input right	On	0	Off

Bluetooth:
Bluetooth Name: Bluetooth Adapter-EFB45F
Activate Pairing: Off
Bluetooth Volume: 80
Bluetooth Bridging: Media bridging
Connected device1: N/A
Connected device2: N/A
Bluetooth Format: N/A

TCP/IP	Telnet	MAC
8000	23	6C:DF:FB:00:03:56

DHCP	IP	Gateway	SubnetMask
On	192.168.011.100	192.168.011.001	255.255.255.000
(Static:	192.168.000.200	192.168.000.001	255.255.255.000)

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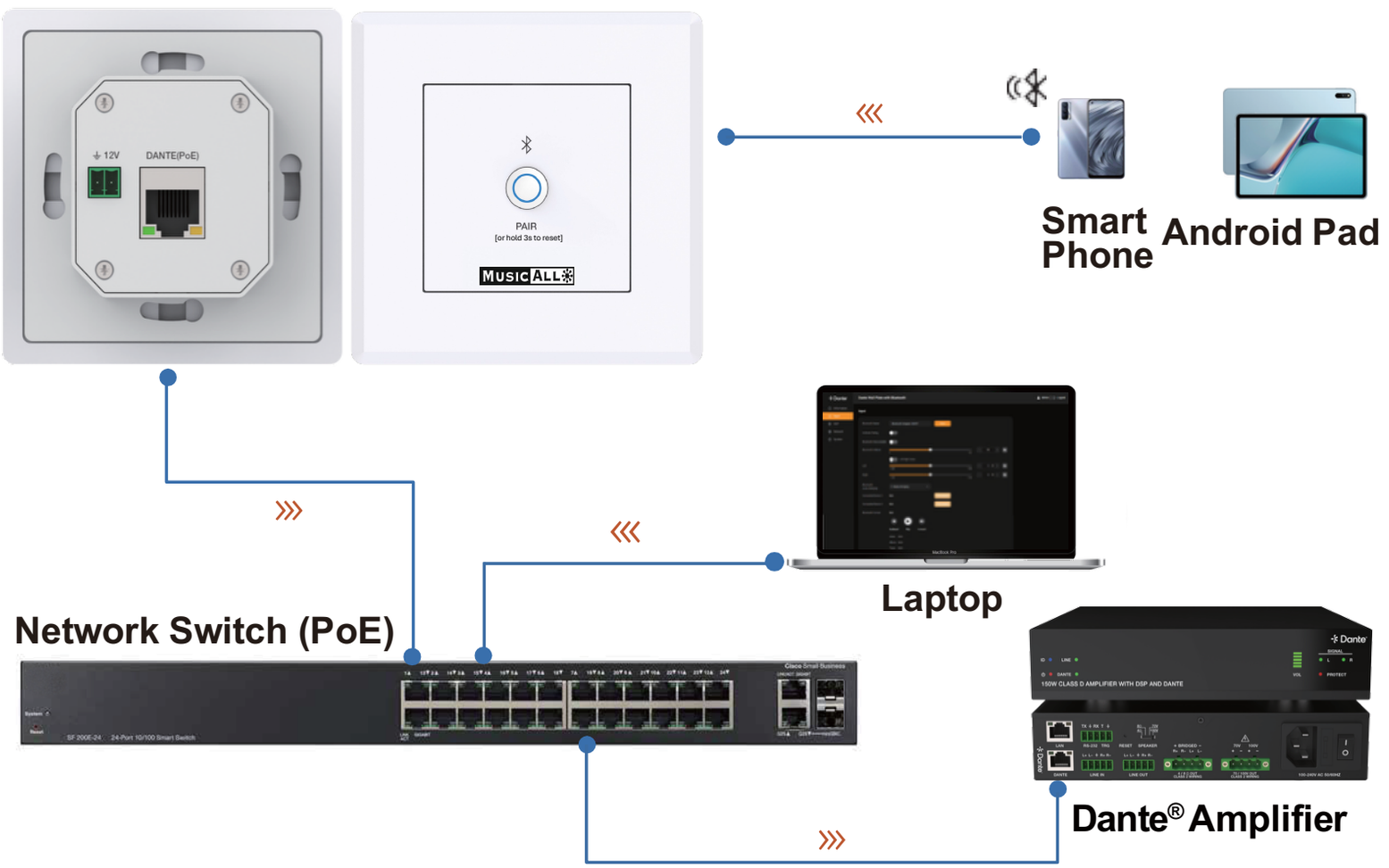
9. Application Example

Bluetooth Audio to Dante® 2x2 Wall Plate



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