

NBS-2401

MULTICHANNEL AUDIO FREQUENCY AMPLIFIER



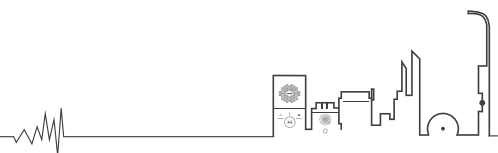
MAIN FUNCTIONS

Basic functions

- With the Rack design (1U) and an anti-corrosion panel made of aluminum alloy; Adopting hardware audio encoding;
- The built-in 4alarm inputs and 4-channel alarm outputs are used for linkage trigger, which can output the alarm without voltage signal to a 3rd party device for online automatic control, suitable for linkage with external equipment.
- Ultra-low network delay of voice transmission, e.g., broadcast delays $\leq 30\text{ms}$.
- With a standard RJ45 interface supportive of crossing network segment and router, accessible to the system if the Ethernet is available, support across network segments and across routes.

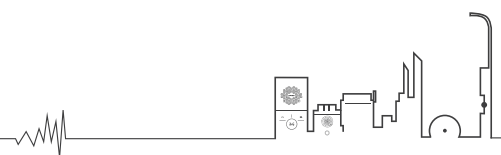
Audio functions

- With 4-way independent network decoder chip which can simultaneously decode 4-way digital audio;
- With 4-way analog audio input (terminal socket) of being encoded simultaneously for high-quality digital audio transmission;
- With 4-way input channel can be used to remotely adjust the volume through network and the volume can be adjusted individually.



SPECIFICATIONS

NBS-2401		
Audio	Audio streaming	Unidirectional/Bidirectional. Two-way
	Code protocol	PCM、ADPCM
	Audio input	Line input
	Built-in MIC	/
Amplifier	Built-in amplifier	/
Network	Security	Password protection
	Protocol	TCP/IP、UDP、ARP、ICMP、IGMP
	Voice broadcasting	Accept voice announcement over SIP phone
	VoIP	/
System integration	Voice synchronization	/
	Intelligent detection	/
	Output power	0W
	Power	≤20W
	Event actions	Work with NAS-8500/XC-9000 for broadcast, alarm and other functions
General	Housing color	Black
	Housing material	Aluminum wire drawing
	Backstop material	/
	BackstopSurface treatment	/
	Memory	/
	Power	Voltage: AC120V-240V
	Interface	Audio input interface、Audio output interface、Alarm in sockets、Alarm out sockets、Network interface、Power interface
	Reliability	Designed for 24/7 operation
	Operating conditions	-10℃ ~ 50℃ , ≤90%RH
	Storage conditions	-40℃ ~ 60℃
	Approvals	3C
	Dimensions	483x183x44mm
	Weight	4.2KG
	Included accessories	Wiring terminal (3.5-4P) 4PCS、Wiring terminal (3.5-5P) 4PCS、Installation manual 1 PCS、Certificate and warranty card 1 PCS、Audio cable 4PCS
	Optional accessories	Power line (3*1.0mm ² /1.5m)
	Software	/
	Languages	Simplified Chinese , English
	Warranty	1 year



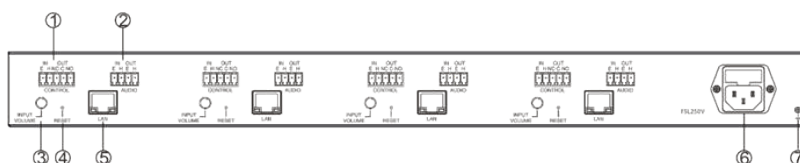
INTERFACE

Front:



- ① Main power switch and indicator light;
- ② Each independent switch;
- ③ SIGNAL : audio signal strength indicator light;
- ④ STATUS : server connection indicator light;
- ⑤ S1 : each power indicator light;

Back



- ① CONTROL : Alarm input/output interface

OUT : alarm output interface (NC:alarm output normal close contact;
C:alarm output public contact; NO: alarm output normal open contact)
IN : alarm input interface (E: alarm input ground; H:alarm input)

- ② AUDIO : Audio line input/output interface

OUT: audio output interface (E:audio output reference, H: audio signal output, 1Vrms/600Ω, imbalance)
IN : audio input interface (E:audio input reference, H: audio signal input, 1Vrms/10KΩ, imbalance)

- ③ INPUT VOLUME : Line input volume adjustment knob, clockwise increase the volume, counterclockwise reduce the volume.

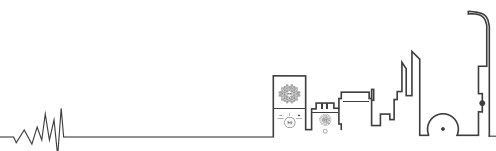
- ④ RESET : Press the button to reset to defaults (or firmware upgrade), broadcast IP.

- ⑤ LAN : Network interface

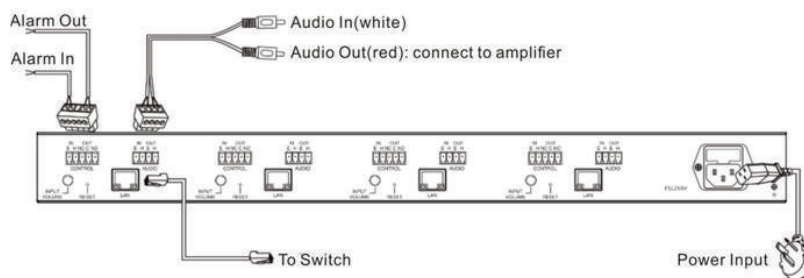
- ⑥ Power input port

- ⑦ Grounding switch

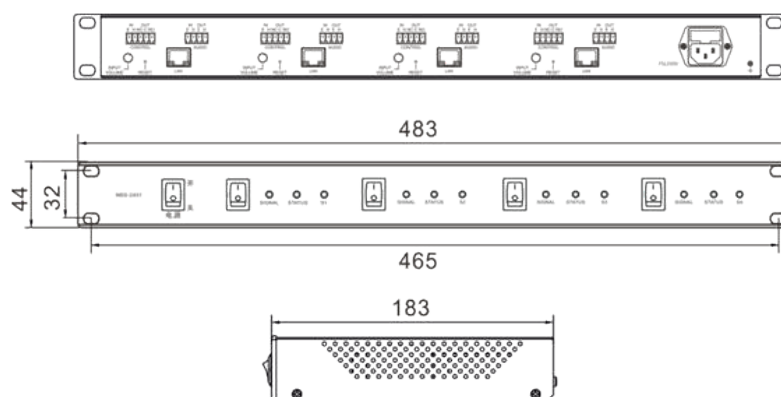
Status	Operation
Mandatory restore IP address	Press the button with power 3s continuously
Mandatory access firmware upgrade interface	Press the button, and then power the device, hold the button for 5 seconds
Broadcast IP	Power ON, under the situation of network offline, short press the button and release.



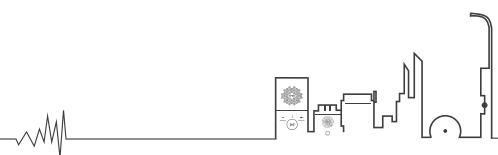
WIRING



INSTALLATION



Multichannel audio frequency amplifier NBS-2401 adopts rack type installation. Please refer to the following external installation size diagram to install the equipment in a cabinet of suitable size.



APPLICATION

Application 1

Multichannel audio frequency amplifier NBS-2401 with 4-way independent network decoder chip can simultaneously encode 4 channels of analog audio input., and be used as audio source for transmission to any designated terminal to restore.

Application 2

Multichannel audio frequency amplifier NBS-2401 with 4-way independent network decoder chip can simultaneously decode 4-way digital audio and output to different power amplifiers to achieve partition control.

Application 3

Multichannel audio frequency amplifier NBS-2401 with 4-way alarm input and output, it can be used for linkage trigger. For example, the alarm input port is connected to the alarm button, and the alarm output port is connected to the electronic door lock. When the alarm button is pressed, it will trigger the multichannel audio frequency amplifier NBS-2401 to play the preset audio file and control the door lock to close.

