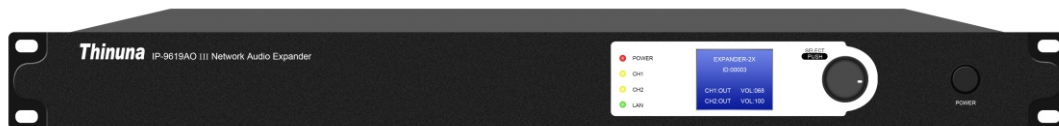


Operation Manual

IP Series network broadcasting system

IP-9619 AO III

Network audio expander



Thinuna

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Welcome


A personal welcome to you from the management and employees of Thinuna global.

Thanks you for choosing our high quality product, we will always provide innovative, advanced, reliable products like before.

We are sincerely trust these products will provide years of satisfactory service, but if anything is not to your complete satisfaction, we will endeavor to make things right.


Welcome to Thinuna again, and thank you for becoming part of our worldwide extended family!


Warning



CAUTION

RISK OF ELECTRIC SHOCK DON'T OPEN






This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.

DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.

Caution: To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

WARNING

Attentions: Pour prévenir les chocs électriques ne pas utiliser cette fiche polarisée avec un prolongateur, une prise de courant ou une autre sortie de courant, sauf si les lames peuvent être insérées à fond sans en laisser aucune partie à découvert.

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

* For the terminals marked with symbol of " " may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the used of ready-made leads or cords.

* The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.

* The appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.

* Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection.

* Increase the minimum distance of the prototype to the surrounding environment.

* no naked flame sources, such as lighted candles, should be placed on the apparatus;

* The use of apparatus in tropical climates.

* The use of apparatus in moderate climates.

* Do not install this equipment in a confined space such as a book case or similar unit.

* The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

* Worded: "WARNING FOR YOUR PROTECTION PLEASE READ THE FOLLOWING-WATER AND MOISTURE: Unit should not be used near water(e.g. near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc). Care should be taken so than objects do not fall and liquids are not spilled into the enclosure through openings."

Service Instructions

* Worded: "Caution: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so."

* Location: Instruction Manual.

NOTE : This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Installation Environment

Installation this system is not difficult and complex. But you still need to spend some time to read this manual and ensure the connection and installation is exact.

Never place this product in an environment which could alter its performance or reduce its service life.

Such environments usually include high levels of heat, dust, moisture, and vibration.

Important Safety Instructions



1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- Avoid excessive heat, humidity, dust and vibration

Keep the unit away from locations where it is likely to be exposed to high temperatures or humidity-such as near radiators, stoves, etc. Also avoid locations which are subject to excessive dust accumulation, or to vibration that could cause mechanical damage.

- Avoid physical shocks

Strong physical shocks to the unit may cause damage. Handle the unit with care.

- Do not open the case or attempt repairs or modifications yourself

This product contains no user-serviceable parts. Refer all maintenance to qualified Thinuna service personnel. Opening the case and/or tampering with internal circuitry voids the warranty.

- Always power off before making connections

Always turn the AC mains OFF before connecting or disconnecting cables. This is important to prevent damage to the unit itself as well as other connected equipment.

- Handle cables carefully

Always plug and unplug cables (including the AC mains power cord) by gripping the connector, not the cord.

- Clean with a soft dry cloth

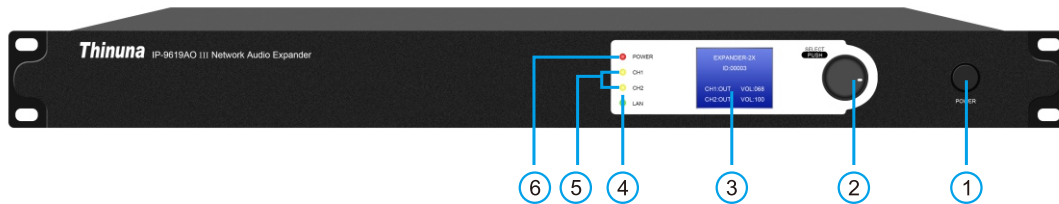
Never use solvents such as benzene or paint thinner to clean the unit. Wipe clean with a soft, dry cloth.

Features:

1. Any place with an Ethernet port can be connected, which can access and control servers and other IP network devices.
2. Network fault self-diagnosis, network and service status display;
3. With two lines of I/O, the line direction can be configured by software, with direction indication at the line interface□
4. Convert digital audio signals on the network to analog audio signals with dual-channel RCA output and mixed sound Phoenix terminal balanced output;
5. The output can be connected to a digital power amplifier, can be connected to a common traditional analog power amplifier, or can be output as a sound source through a two-channel RCA;
6. The analog audio signal can be converted into a digital signal and transmitted to the network with a dual channel acquisition function;
7. Strong cut function, when the fire signal is activated, it will automatically output 24V electric signal and three-wire strong cut electric signal to open the volume controller, no need to add equipment;
8. Unique power amplifier detection function, the network can monitor the power amplifier status in real time;
9. With DC24V backup power interface;
10. With the power amplifier backup function, The system can realize 1 backup and multiple automatic switching.
11. Work signal indicator, local volume control, color display;

Network parameters can be configured locally.

Front panel



1. POWER

Turn the unit's power on or off.

2. SELECT/PUSH

When parameter setting, you can use this button to adjust the parameter size, increase the value to the right, decrease the value to the left, short press to confirm, long press to enter the next interface.

3. LCD

Display other information such as status information, attribute parameters, and time of the unit.

4. LAN

Network status indicator, When the local network connection is normal, the indicator lights.

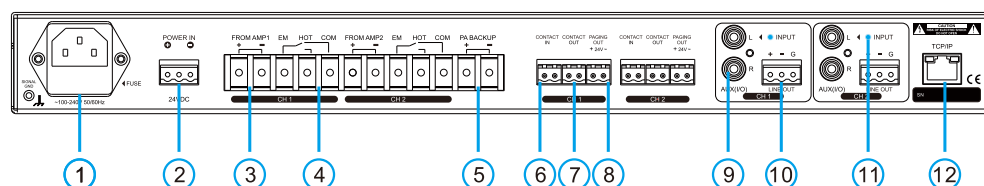
5. CH1/CH2

Channel status indicator, The channel working status is displayed, and the indicator light is always on when the channel is working.

6. POWER

Power Indicator, Used to indicate power on and standby status.

Rear panel



1. AC power interface

AC power supply; can be used to connect 100V-220V AC power.

2. DC power interface

DC power supply; can be used to connect 24V DC power.

3. Amplifier interface

Connect to the power amplifier to detect the operating status of the amplifier.

4. Strong cut volume controller terminal block

It is used to connect the speaker line with the three-wire volume controller. When there is a fire alarm linkage signal trigger, the strong cut signal is automatically output to turn on the volume controller.

5. Standby amplifier interface

It is used to access the standby power amplifier. When it detects that the main power amplifier is working abnormally, it automatically switches to the standby power amplifier.

6. Fire dry contact trigger signal input

Linked with fire signal

7. Dry contact signal output

When there is a fire alarm linkage signal, the port will have a set of dry contact signal output.

8. 24V power output

When there is a fire linkage signal, the port will have a 24V DC output.

9. AUX line I/O

The CH1 and CH2 channels can be set to: acquisition channel (INPUT) / broadcast channel (OUTPUT) through the configuration software;

When the channel is set to the acquisition channel, the port will be used as a LINE audio input, which can be connected to background music sources such as CD, MP3, radio, computer, etc.

When the channel is set to a broadcast channel, the port acts as an audio unbalanced output channel that outputs the signal to a pure final stage amplifier.

10. Audio balanced output port

When the channel is set to the acquisition channel, the port has no effect;

When the channel is set to broadcast, this port acts as an output audio balanced output channel that outputs the signal to a pure final stage amplifier.

11. Channel status indicator

When the channel is set to the acquisition channel, the indicator lights up in blue;

This indicator does not light when the channel is set to a broadcast channel.

12. TCP/IP Network Interface

Used to connect to a LAN.

Specification:

Model No	IP-9619AO III
Network interface	10M/100M
Support protocol	TCP,UDP,IGMP,ICMP,ARP
Audio format	PCM (Uncompressed format) ADPCM,MP3
Channel	2*I/O
Network delay	File playback: less than 50ms, real-time speech: less than 100ms
Transmission rate	10/100Mbps
Audio mode	Network packet
frequency response	20HZ~16KHZ
THD	≤0.3%
SNR	> 75db
Line input level	1.4V RCA
Line output level	2.8V RCA
Strong cut output	DC24V/2A three-wire system
Working temperature	-20°C~+60°C
Power consumption	≤35W (there is no load)
Power supply	AC220V/50Hz AC110V/60Hz DC24V reserve power supply
Dimension	482 (W) ×44 (H) ×360 (D) mm

Equipment parameter adjustment:**1. Adjust the channel volume**

Rotate the knob, the cursor appears on the volume of the corresponding channel, press the knob, the volume value turns red, turn the knob to the right to increase the volume, and to the left to decrease the volume. After modifying, press the knob again to save the settings.

2. Set the IP address

Press and hold this knob to enter the IP setting interface of the device. Rotate the knob to stop the cursor to the parameter that needs to be changed. Press the knob, the parameter font will turn red, turn the knob to the right, increase the parameter value, and rotate to the left to decrease the parameter value. Tap again to complete the parameter change. In the IP setting interface, press and hold the knob again to enter other parameter settings.

IP address setting interface parameter description:

- IP: Device IP address, not repeatable;

- MK: Subnet mask;
- GW: Default gateway;
- ID: The device is uniquely coded and cannot be repeated;
- SAVE: Save configuration;
- SP: Server IP address setting;
- PROT: Server login port settings
- DHCP: Obtain an IP address automatically. After checking, the device will automatically obtain an IP address.

After setting, rotate the cursor to "SAVE", short press the knob, the font of "SAVE" will change from white to red. Turn the knob to switch SAVE to YES and press the knob to confirm the save. The device restarts automatically.

3. Channel settings

The IP-9619AO III has two lines of I/O. The line direction can be configured by software, and the line interface is indicated by direction. For details, please refer to the software section.

Service

Procedures

Ensure the problem is not related to operator error, or external system devices, Once it is certain that the problem is related to the product contact your warranty provider as described in the warranty section of this manual.

Variations

Variations of this product exist to reflect the variations in AC power requirements throughout the world. Product supplied through local sources are compatible with local AC power requirements 110VAC or 220VAC.

Optional accessory

This product do not have others optional accessory.

Warranty

Warranty terms and conditions vary by country and may not be the same for all products. Terms and conditions of warranty for a given product may be determined first by locating the appropriate country which the product was purchased in, then by locating the product type.

To obtain specific warranty information and available service locations contact Thinuna directly or the authorized distributor for your specific country or region.

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