



Network Power Amplifier

Embedded software: high-quality professional power amplifier embedded software V5.75

TX-87120Z



Description:

Installed in the weak current room or sub-control computer room of each broadcast management area, built-in high-fidelity power amplifier, used for program broadcast and local broadcast in halls, corridors, outdoors and other areas.

Feature:

- * Standard cabinet design, 1U height, black aluminum oxide wire-drawing panel, exquisite craftsmanship.
- * Built-in industrial-grade dedicated network audio decoding chip to realize the function of broadcast and network music program playback.
- * Built-in high-fidelity professional digital power amplifier, support constant resistance 4~16Ω power output / constant voltage 100V output, and the mode can be switched.
- * With 8 power zone output ports, support 8 zone independent control, support any zone, whole zone to broadcast and play network music programs.
- * Based on 3-layer network transmission technology, compatible with standard network protocols such as DHCP, TCP, UDP, ICMP, IGMP, ARP, etc.
- * Adopt 48kHz sampling rate, support DSP sound effect processing, realize CD-level sound quality effect.
- * Support equipment management through software, remotely view system equipment information, equipment status in real time, and set equipment parameters (IP address, equipment name, etc.).
- * Support automatic IP acquisition, support DHCP dynamic and static IP configuration methods.
- * Support remote volume configuration through management software, support volume batch copy function, realize batch volume configuration of multiple devices.
- * Support remote adjustment of treble and bass through management software, and adjust according to application requirements for better sound quality.
- * Support power amplifier failure detection function, support power amplifier failure/overload/over temperature protection/short circuit protection detection function, support software to check whether the power amplifier is faulty.
- * Support the zone failure detection function in constant voltage mode, and the display screen can show whether there are faults in 8 zones.
- * Support full-service sound mixing function, support digital mixing of broadcast and network background music, meeting the sound mixing and reinforcement of various activities such as school sports meeting, community broadcast and background music mixing scenes.
- * Support three-wire sound control override, the power amplifier has a constant voltage 100V output in each area with three-wire sound control override output function, and no override power supply is required; it is compatible with four-wire fire fighting override, an external 24V override power supply is required.
- * Intelligent power saving and pre-open management, automatically turn off the power amplifier when idle, and automatically open when there is a signal, to achieve system energy saving and stable operation of the equipment.
- * With 8 shortcut keys to quickly turn on/off the corresponding zone by pressing the key; with multi-function encoder knob to perform operations such as volume adjustment, treble and bass adjustment.
- * Support remote firmware upgrade, firmware upgrade can be carried out through LAN without disassembling the machine, reducing maintenance personnel work.

Specification:

Model	TX-87120Z
Network interface	Standard RJ45 network port
Transmission rate	100Mbps
Support protocol	DHCP, TCP, UDP, ICMP, IGMP, ARP and other standard network protocols
Audio format	MP3, WAV
Audio mode	16-bit CD sound quality
Sampling rate	48kHz
Tweeter boost and attenuation	±10dB
Bass boost and attenuation	±10dB
Frequency response	80Hz~16kHz +1/-3dB
THD	≤1%
SNR	≥75dB (A)
Output power*	120W
Output method	Constant voltage 100V/constant resistance 4~16Ω
Power consumption**	50W
Standby power consumption	≤10W
Power supply	~AC 180V-240V 50Hz
Circuit protection	DC output, overload, over temperature, short circuit protection circuit
Working temperature	-10℃~+55℃
Working humidity	20%~80% relative humidity, no condensation
Size	484×315×44mm
Weight	4.5kg

*This power is measured according to CEA-2006-B/CEA-490-A standard using 20ms pulse 1kHz sine wave at 1% total harmonic distortion

**Based on GB4943.1-2022 test method: measured under 1kHz sine wave rated load 1/8 power condition