



IP Network Terminal Amplifier

Digital IP network platform terminal embedded software V2.02

TX-86500Z



Description

Installed in the storey computer room or sub-control computer room of each broadcasting management area, the built-in high-fidelity amplifier can be used for program broadcast and local broadcast in halls, corridors, outdoors and other places.

Feature

- * Standard 1U cabinet design, black alumina wire-drawing panel, exquisite craft fully demonstrating high-end temperament.
- * Adopt built-in industrial-grade dedicated network audio decoding chip to realize the playback of broadcast and network music programs.
- * Built-in high-fidelity professional digital amplifier, with 500W power output of constant voltage 100V/constant resistance 4~16Ω; 8 power zoning output ports support 8-zone independent control, and support the playback of broadcast and network music programs in any zone or whole zones.
- * 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, and achieve CD-level sound quality.
- * Support mobile APP controlling the device through WiFi/3G/4G/5G and other networks, support mobile APP remotely viewing device information and device status in real time, and support mobile APP remotely setting device parameters (IP address, device name, etc.).
- * Support automatic acquisition of IP, support DHCP dynamic and static IP configuration methods.
- * Support remote volume configuration through the mobile APP, support batch volume copy function, and realize batch volume configuration of multiple devices.
- * Support remote tone adjustment through the mobile APP, and support adjusting better sound quality according to application requirements.
- * Support failure/overload/over-temperature/short circuit detection function of the amplifier, and support checking the amplifier failure through the mobile APP.
- * Support zoning failure detection function in constant voltage mode; the screen can display whether there are failures in the 8 zones.
- * The full-service sound mixing function supports the digital mixing of broadcast services and network background music, to meet the sound mixing and sound reinforcement applications of various activities such as school broadcast gymnastics, flag raising, sports meetings, community park broadcasts and background music mixing.
- * Support three-wire sound control override. The constant voltage 100V output in each zone of the amplifier supports the function of three-wire sound control and override output. No need for a override power supply. It is also compatible with four-wire fire fighting and requires an external 24V override power supply.
- * Intelligent power saving and pre-open management can automatically cut off the power of the amplifier when it is idle, and automatically turn on when there is a signal, to achieve system energy saving and stable operation of the devices.
- * It has 8 shortcut keys, which can quickly open/close the corresponding zones; it has a multi-function encoder knob for volume adjustment, tone adjustment, and other operations.
- * Support remote firmware upgrade through the LAN, no need to disassemble the machine, and reducing the work intensity of maintenance personnel.

Specification:

Model	TX-86500Z
Network interface	Standard RJ45 input
Transmission rate	100Mbps
Communication protocol	Compatible with standard network protocols such as DHCP, TCP, UDP, ICMP, IGMP, ARP, etc.
Output power*	500W
Output method	Constant voltage 100V/constant resistance 4~16Ω
Audio format	MP3, WAV
Audio mode	16-bit CD sound quality
Sampling rate	48kHz
Treble boost and attenuation	±10dB
Bass boost and attenuation	±10dB
Frequency response	80Hz~16kHz +1/-3dB
THD	≤1%
SNR	≥75dB (A)
Standby power consumption	≤10W
Power consumption**	150W
Power supply	~AC 180V-240V 50Hz
Protection circuit	DC output, overload, over temperature, short circuit protection circuit
Working temperature	-10°C~+55°C
Working humidity	20%~80% relative humidity, no condensation
Size	484×315×44mm
Weight	5.6kg

*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