



Power Amplifier

Embedded software: high-quality waterproof power amplifier embedded software V5.77

TX-87100



Description:

Integrated digital power amplifier module and aluminum box design, aluminum alloy waterproof and rust-proof housing structure; installed in outdoor columns and underground installation slots in various broadcast management areas, used for broadcast and local programs playback in outdoor places such as parks, squares, streets, tourist attractions, etc..

Feature:

- * Based on 3-layer network transmission technology, compatible with standard network protocols, and support 48KHz/16-bit network audio transmission across the network.
- * Support equipment management through PC client software, view system equipment information, equipment status in real time, and set equipment parameters (IP address, equipment name, etc.).
- * Built-in industrial-grade dedicated network audio decoding chip to realize the function of broadcast and network music program playback.
- * Support microphone broadcast voice and network background music mixing, and the background music mixing volume can be flexibly set.
- * Built-in Class D 2*100W (@4R) constant resistance digital power amplifier, low heat, high efficiency, CD-level perfect sound quality.
- * Support power amplifier short circuit, overload, overheating protection functions, and support real-time viewing of equipment failure status through PC client.
- * Built-in DSP audio processor, support 8-segment EQ adjustment, support the adjustment of EQ frequency, gain, bandwidth and type of the device.
- * Support high and low pass filter processing, adjust the high pass frequency, low pass frequency, type, Q value and number of segments.
- * Support digital limiter function to prevent distortion caused by excessive signal, affecting sound quality.
- * Support remote firmware upgrade, firmware upgrade can be carried out through LAN without disassembling the machine, reducing maintenance personnel work.
- * Using aluminum alloy die-casting molding, dust-proof and waterproof design, support IP66 protection level, anti-radio frequency interference, suitable for working in the environment of -30 60 .

Specification:

Model	TX-87100
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 sampling rate	48KHz
Audio bit depth	16 bits
Output power*	100W*2
Overall power consumption**	80W
Frequency response	80Hz~16kHz,+1/-3dB
THD	≤1%
SNR	≥80dB(A)
Output method	Constant resistance 4-16Ω output
Circuit protection	DC output, overload, over temperature, short circuit protection circuit
Working temperature	-30°C~60°C
Working humidity	20%~80% relative humidity, no condensation
Input power	~220V 50Hz
Size (L×W×H)	160×75×240mm
Weight	3kg

*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