IP Amplifier Terminal T-8805B

Embedded Software: Digital IP Network Terminal Embedded Software V2.0

Description

The wall-mounted codec amplifier is suitable for places with amplification needs such as schools for listening tests, office buildings, conference centers, alarm centers, and station lounges. It uses network digital transmission to play background music set in the system, timed bell tasks, collect sound sources, and one-way calls.

Feature

*The integrated dual 86 wall-mounted structure has a simple and beautiful appearance.

*It has a 2.8-inch color screen, supports network task status display, volume display, and real-time display of task execution status.

*It has 1-channel MIC input interface, which is suitable for local microphone amplification.

*It has a built-in microphone and supports one-key inspection function. It can effectively detect the terminal link of the device and support uploading the collected audio data to the server for subsequent detailed analysis and processing.

*It has 1-channel line input interface, which is suitable for external signal input and local amplification.

*It can expand the wireless audio module to realize local amplification of wireless microphones. It can expand the connection of Bluetooth receivers to realize receiving Bluetooth audio for local amplification.

*It has 1-channel line output interface, which is suitable for external signal amplification equipment.

*It has 1-channel short-circuit input interface, which supports customized alarm triggering, local media library music playback, volume adjustment and other functions.

*With dual network interface design, the terminal supports redundant backup function, which effectively avoids the problem that the device cannot be permanently connected to the system due to single point failure.

*It has 1-channel 100V constant voltage signal backup input interface, which switches to the backup channel when the machine has no network, avoiding crosstalk between local signal and backup signal.

*It supports network and analog 100V main and standby switching functions. It supports automatic switching to analog 100V constant voltage backup line when power is off or network is off. The delay of hearing backup switching is less than 0.03 seconds. There is no delay, no jamming, no word drop during the switching process, and it does not affect normal broadcasting; when the network and power supply return to normal, it automatically switches to the main channel, and the switching time is less than 0.03 seconds. There is no delay, no jamming, no word drop during the switching process, and it does not affect normal broadcasting.

*Built-in 2×30W (MAX) dual-channel Class D digital power amplifier, with delicate sound quality and strong power, can be connected to external speakers; and has network volume setting.

*Built-in on-demand acquisition module, which can realize the real-time on-demand function of network media library audio.

*Built-in network audio decoding module, supports mainstream audio formats such as MP3, WAV, FLAC, OGG, AAC, OPUS, and is compatible with the full sampling rate of 8kHz-48kHz.

*Built-in DSP audio processing, supports ultra-low latency digital mixing, and 10-band EQ equalization configuration.

*Built-in 3-level priority setting: (1) Network alarm signal takes priority over local input signal and 100V analog backup. (2) Local input signal MIC, AUX and network background music are configured by the server; local input signal MIC, AUX are mixed at the same level. (3) 100V analog backup signal has the lowest priority.

*Built-in infrared receiving function, optional dedicated remote control to realize wireless remote control function, and supports remote control of network on-demand, volume increase and decrease, status view and other functions.

*Supports remote firmware upgrade, support equipment maintenance through the network, and reduce the workload of personnel.

*The system uses a data redundancy encoding and decoding algorithm and supports anti-packet loss recovery function. The network packet loss is 37.5%, and the audio playback is smooth.

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Specification

Network interface	Standard RJ45×2 input
Transmission rate	100Mbps
Supported protocols	TCP/IP、UDP、IGMP、ICMP
Audio format	Supports mainstream audio formats such as MP3, WAV, FLAC, OGG, AAC, OPUS, etc.
Audio mode	16-bit CD-level sound quality
Sampling rate	8kHz-48kHz
AUX input sensitivity	350mV (unbalanced)) Industrial standard 2.54mm pressure terminal
MIC input sensitivity	120mV (unbalanced)) Industrial standard 2.54mm pressure terminal
LINE OUT output frequency response	80Hz-16kHz (+1dB/-3dB)
LINE OUT output distortion	≤0.1%
LINE OUT output signal-to-noise ratio	≥73dB
LINE OUT output signal-to-noise ratio	470Ω
Amplifier frequency response	80Hz-16kHz (+1dB/-3dB)
Amplifier harmonic distortion	≤1%
Amplifier signal-to-noise ratio	≥73dB
Amplifier output power	2×30W (MAX)
Power consumption	≤45W
Working environment temperature	5℃～40℃
Working environment humidity	20%～80% relative humidity, no condensation
Input power	～220V 50Hz
Weight	0.7kg
Size（L×W×H）	85.1×45×171.95mm