Embedded software: Digital IP network terminal embedded software V2.0

Description

Outdoor network sound column, digital network decoding module and sound column integrated design, aluminum alloy waterproof and rust-proof shell structure. Installed in outdoor columns in various broadcast management areas. Suitable for program playback and broadcast amplification in outdoor places such as schools, parks, squares, streets, tourist attractions, etc.

Feature

*The box has good sealing performance and adopts all-copper nickel-plated grounding terminal to make grounding conduction more reliable. It meets the use and safety requirements of harsh outdoor environments and meets the IP66 protection level design requirements.

*It has 1-channel line input interface, supports the access of various high-fidelity audio sources, and supports the connection of professional audio and video equipment.

*It has 1-channel short-circuit input interface, which can be used to trigger alarm voice.

*Built-in 90W (MAX) Class D digital amplifier module, driving high and low frequency division design speaker units, the sound quality is strong and beautiful. Built-in professional two-way frequency division module, high and low frequency speaker units are deployed in dumbbell style. Make the sound column sound clear, fast transient response, and small sound distortion. Suitable for multi-scene sound reinforcement.

*Built-in 1-channel network digital audio decoding module, supports TCP/IP, UDP, IGMP, ICMP and other communication protocols, and realizes network transmission of 16-bit CD-level audio signals.

*Supports mainstream audio formats such as MP3, WAV, FLAC, OGG, AAC, OPUS, and is compatible with 8kHz-48kHz full sampling rate.

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

*Built-in 2-level priority settings: (1) Network alarm signals take priority over AUX and network background music signals. (2) Network background music signals and local audio input can be prioritized by the user as needed.

*Supports remote firmware upgrades and equipment maintenance via the network to reduce staff workload.

*Built-in network port surge protection can effectively prevent interference such as surge and radiation from damaging the device.

*The system adopts 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.

Specification

Network interface	Standard RJ45×1 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-quality sound
Sampling rate	8kHz-48kHz
LINE IN	350mV (unbalanced) Industrial standard 2.54mm crimp terminal
Frequency response	130Hz-16kHz (+1dB/-3dB)
Total harmonic distortion	≤1%
Signal-to-Noise Ratio	≥68dB
Output power	90W (MAX)
Maximum sound pressure level	109dB
Sensitivity	92dB
Short circuit input	Dry contact input industrial standard 2.54mm crimping terminal
Power consumption	95W
Protection level	Ip66
Operating temperature	-25℃～60℃
Working humidity	20%～80% relative humidity, no condensation
Input power	～220V 50Hz
Net weight	5.2kg
Dimensions (L x W x H)	141.11×100.76×839mm