



Description

IP decoding terminals are installed in the low-voltage rooms or sub-control rooms of various broadcast management areas. They can be connected to amplifiers up to 1000W, with freely configurable or selectable 8-zone power output. They are used for program playback and local broadcasting in areas such as lobbies, corridors, and outdoor spaces. Built-in monitoring speakers allow for real-time monitoring of the terminal's audio output.

Features

- *A 1.2U rack-mount chassis design, made of pure metal for strong impact resistance; button design for controlling terminal output volume; professional machining and spraying processes give the machine a high-end and sophisticated appearance.
- *An industrial-grade 3.9-inch TFT-LCD display screen clearly shows high-definition dynamic images and machine operating status.
- *The device adopts embedded computer technology and DSP audio processing technology. It has a built-in network hardware connection module, supporting TCP/IP, UDP, and IGMP (multicast protocol) transmission protocols to achieve networked transmission of 16-bit CD-quality audio signals.
- *Built-in network audio decoding function, supporting mainstream audio formats such as MP3, WAV, FLAC, OGG, AAC, and OPUS, compatible with a full sampling rate of 8kHz-48kHz, and supporting playback of audio with sampling rates of 8kHz, 16kHz, 32kHz, 44.1kHz, and 48kHz.
- *Built-in DSP audio processing, supporting ultra-low latency digital mixing and a 10-band EQ equalizer.
- *Equipped with a power switch and power indicator light, the device can be connected to a wide voltage range of AC 190V~240V; supports two power output sockets with built-in intelligent power management, automatically cutting off power to the output sockets when there is no task and automatically turning them on when there is a task. The total maximum output power of the two power sockets is 2000W.
- *Includes a built-in USB interface for on-demand audio playback; play/pause can be controlled via buttons, offering flexible and simple operation.
- *Features one AUX input and one microphone input, supporting local paging functionality even when the network is down.
- *Features one RS485 control interface, supporting the expansion of a corresponding volume control panel for volume adjustment.
- *Features one EMC input interface; emergency alarm voice signals are directly input with the highest priority.
- *Features two auxiliary audio signal output interfaces using standard RCA connectors, allowing for expansion with external power amplifiers and convenient wiring connections.
- *Built-in independent 100V constant voltage input interface, supporting independent control of 8 zones with 100V constant voltage power output selection. Zones 1-8 can be controlled by the server after configuration on the server PC software. Zones follow tasks; they are disabled by default when the device is idle. Zones can be manually controlled. Zone output audio originates from the 100V constant voltage audio input, with a maximum power of 1000W.
- *Features one short-circuit input interface, which can be configured on the server or triggered externally by a short circuit; two short-circuit outputs, which can be linked to alarm devices to trigger alarm functions.
- *Features one monitoring output, a built-in 3W amplifier with a 3W/4Ω speaker unit, supporting line monitoring output.
- *Built-in 3-level priority settings:
 - 1)EMC has the highest priority.
 - 2)Network alarm signals prioritize MIC, AUX, and network background music signals.
 - 3)The priority of MIC, AUX, and network background music can be changed using the IP broadcast configuration tool. 16. The device supports authorized operation management functions, with unified configuration and management of users and passwords via the server.



- *Compatible with any network structure, including routers, switches, bridges, gateways, modems, the Internet, 2G, 3G, 4G, multicast, and unicast.
- *A digital product, easily expandable, not limited by geographical location, requiring no additional data center management equipment, and adopts a shared network design concept for easy installation.
- *The system uses a data redundancy encoding and decoding algorithm and supports packet loss recovery. With packet loss recovery enabled, audio playback remains smooth even with a 37.5% network packet loss.
- *Supports terminal IP conflict detection and real-time monitoring of terminal packet loss rate; supports Dynamic Host Configuration Protocol (DHCP) and static IP configuration.
- *Supports playback system acquisition and broadcasting tasks. Within a local area network, the playback latency is <5ms (comparison between the audio source output and the terminal audio playback).
- *Supports remote firmware upgrades for broadcast systems, eliminating the need for local upgrades and reducing the workload of maintenance personnel.

Specification

Network Interface	Standard RJ45 input × 2
Network Interface	100Mbps
EMC Input Sensitivity	775mV (unbalanced)
AUX Input Sensitivity	350mV (unbalanced)
MIC Input Sensitivity	120mV (unbalanced)
AUX Output Amplitude	1024mV±50mV
Equalizer Boost/Attenuation	±15dB
Frequency Response	80Hz ~ 16kHz
Standby Power Consumption	3W
Maximum Power Consumption	2000W
Harmonic Distortion	≤0.1%
Signal-to-Noise Ratio	≥78dB
Operating Ambient Temperature	5°C ~ 40°C
Operating Ambient Humidity	20% ~ 80% Relative humidity, no condensation
Input Power Supply	~ 220V 50Hz
Dimensions (W×D×H)	484×302×95.5mm
Net Weight	3.85kg