



System Controller

Embedded software: audio integrated management system embedded software V5.73

TX-8700



Description:

The core controller of the digital audio integrated management system supports system management through the PC client. It supports system management functions such as device management, task management, media library management, and account management, as well as powerful audio processing and audio routing distribution functions.

Feature:

- * Adopt a 2.2-inch LCD display to display the status of the controller and IP information in real time.
- * Use 6-core 1.8GHz core processor, 2G memory, 128GB storage space, based on Linux system, high stability.
- * Based on the 3-layer network transmission technology, support lossless audio transmission, and support the transmission of lossless audio through the network to the terminal for playback.
- * Support stereo audio files, support left and right channel independent decoding, realize stereo audio playback;
- * Support text-to-speech broadcasting function to realize voice broadcasting of manuscripts such as temporary notifications and information releases.
- * Support the dual-system hot backup function, the spare machine detects the operation of the master in real time, and when the master is abnormal, the spare will automatically take over the system to ensure the stable operation of the system.
- * Support PC management software for device management, electronic map, task management, music library management, system settings and other system management operations.
- * The permission management function supports custom user roles, and establishes different role accounts according to the terminal, task, operation permission and so on, to achieve system multi-account permission management.
- * Support media library management, support WAV, MP3 audio file formats, support PC management software for music upload, music transfer, music deletion and other operations;
- * Built-in GPS high-precision satellite timing, no need to configure additional timing equipment, to achieve millisecond-level clock timing.
- * Built-in 4G communication function interface can extend 4G information push and 4G remote control functions.
- * Support float parade control, the system controller can be set as the float controller; it can trigger the speaker to play the float music through satellite positioning, and can also be remotely controlled through the tablet software.
- * Support Android and iOS tablet client control, support the playback control of timed, AOD tasks and float parade through the tablet, support viewing maps, devices, and other system information status.
- * Support 8 channels of analog audio input interfaces, support the acquisition of third-party audio source, support 8-channel simultaneous acquisition without mutual interference, and the transmission of audio to the designated terminal for playback through the network.
- * Support 8 channels of analog audio output interfaces, support 8 channels of network audio decoding outputs at the same time, each output supports digital mixing function, and the output volume is adjustable.
- * Support 16 channels of GPIO inputs, support custom GPIO port and fire alarm linkage triggering alarm sounds, and support triggering on-demand background music through GPIO, and up to 16 channels triggering on-demand music simultaneously.
- * Support 16 GPIO output ports for cascading trigger output, which can be connected with third-party devices.
- * Support 1 Gigabit Ethernet interface for system network audio transmission and data communication.
- * Support 1 RS232 interface, which can be connected with third-party devices.

Specification:

Model	TX-8700
Network interface	Standard RJ45
Transmission rate	1000Mbps
Communication 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
Screen	2.2-inch LCD screen
Screen resolution	320*240 pixels
Rated input	775mVrms, balanced input
Rated output	1Vrms, balanced output
Frequency response	20Hz~20kHz, +0.2dB/-0.7dB
SNR	≥80dB(A)
Channel isolation	≥95dB,@1kHz
THD	≤0.05%
Output impedance (balanced)	470Ω
Power consumption	<50W
Power voltage	DC24V
Working temperature	-10°C~+55°C
Working humidity	20%~80% relative humidity, no condensation
Weight	About 3kg
Dimension	440*295*51.9mm