



Luna Cloud Platform Digital Broadcasting System

(T-7800 Linux Series)

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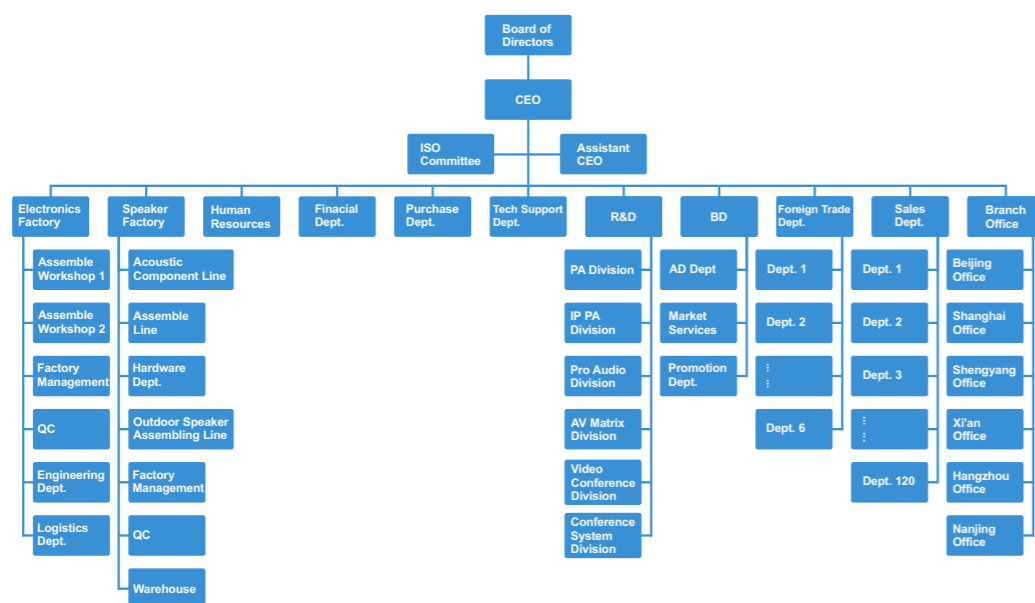
* Specifications are subject to change without notice.



Company Introduction

Guangdong Baolun Electronics Co., LTD. (ITC) was established in 1993, located in Panyu district of Guangzhou. ITC is the No.1 and the largest integrated supplier of audiovisual & lighting systems, integrating R&D, production, sales and service together in China for more than 30 years. ITC owns 4 office buildings, 6 R&D centers and 5 factories. There is also an industry-leading intelligent manufacturing industrial park of over 300,000 square meters under construction, which is expected to be put into operation by the end of 2023. We have 1200 R&D engineers, 2000 pre-sales and after-sales technicians, 142 sales departments, all totally more than 6000 employees. ITC can provide integrated solution from PA system, IP intercom system, Voice evacuation system, HD video conference system, 5G digital conference, Paperless conference, Interpretation system, Central control system, Professional sound system, LED screen, Stage light & Architectural light, etc. We are the official supplier for important events, including 2008 Beijing Olympic Games, 2010 Shanghai World Expo, 2010 Guangzhou Asian Games, 2016 Hangzhou G20 Summit, 2016 Turkey expo, 2022 Beijing Winter Olympics, India subway, USA chain shops, Guyana national conference, Uzbekistan national defense conference, Five Nigeria national airport, CBE Ethiopia bankOur worldwide successful projects are more than 1.5 million cases, and its products have been exported to more than 100 countries around the world. All of our products are developed and manufactured by ourselves. Our products are compliant with CE, RoHS, EN54, UL, CCC, NOM certificate. ITC possesses more than 3000 intellectual properties, including appearance patents, software copyrights, utility model patents and invention patents, and has won the honorary titles of "Quality Product", "Famous Brand" and "Most Competitive Brand" for many years. ITC is the "High-tech Enterprise" in China.

Company Organization



Our Production Lines

A group of highest technology equipment are used to strengthen the reliability and output capacity: SMT machine, reflow oven & numerical control cutting machine. 95% PCB of the equipment s are made by SMT machine to ensure quality consistency and higher reliability. The numerical cutting machines enhance the equipment in elaborate & elegant level. A comprehensive process of tests are be involved: drop test, vibration test, aging, Hipot & RoHS test.

Certificates:

CCC, ISO9001, CE & RoHS, IEC60914. Parts of our product are complied with certificates: CB, SASO, ETL, UL, FCC, EN54-16 and EN54-24. Parts of loudspeakers are certified by waterproof, dustproof, fire-proof & explosion-proof.



COMPANY HISTORY



Year 1993

ITC was founded in Guangzhou, regarded as pioneer of Digital Public Address System in China.

Year 1995

ITC successfully registered trademark ITC in China.

Year 1998

The first full-intelligent PA system was successfully developed and launched to the market.

Year 2000

ITC set up 8 sales subsidiaries and technical assistance centers in Guangzhou, Beijing, Shanghai, Hangzhou, Nanjing, Xi'an, Shenyang and Chengdu. ITC also established proxy services agencies in 48 provinces all over China.

Year 2001

The first digital network PA system was successfully developed and launched to market.

Year 2002

Due to speed business expansion, ITC set up numerous large production plants in Guangzhou. The whole company broadened to six large plates: four production plants + marketing and logistics center + R & D center; totally more than 800 manufacturing workers.

Year 2003

ITC developed full-digital IP PA system; became the world's first IP PA R & D manufacturer. In the same year a full range of products passed quality inspection, 3C, CE, RoHS and other domestic and foreign certification.

Year 2004

For successive years, ITC was awarded as "The Most Competitive Brand" and "Top Ten PA Brand" by domestic renowned media.

Year 2005

In order to meet the needs of global strategy, ITC had registered in 35 countries "ITC" trademark, and collaborated with 56 high-quality foreign strategic partners.

Year 2006

ITC was awarded as "Intelligent Building Quality Products," "Intelligent Building Leading Brands" as etc by China Intelligent Building Industry Association. There' s no replacement in the professional field.

Year 2007

The first most advanced Fire Alarm Voice Evacuation System was successfully developed. Till the end of 2007, ITC had won totally 12 core technology and design patents.

Year 2008

ITC successfully marched into 2008 Beijing Olympic games: the Olympic Forest Park, Capital Stadium, Beijing Industry University Gymnasium, and the Olympic Media MCI sign Center and other key Olympic venues.

Year 2009

ITC successfully marched into the Shanghai World Expo venues including Oman, Ireland Museum, Museum of Turkmenistan, Pakistan, and Iran and so on. In the same year, she went into Asia's largest railway station (South Station in Guangzhou), Beijing Subway, Beijing-Tianjin inter-city Express and other famous projects.

Year 2010

ITC successfully marched into 2010 Guangzhou Asian Games Venues including Gymnasium, NBA Stadiums, Swimming Pool, Bicycle Roller Skating Center, the Athletes Village, Main Press Centre, Media Village, Technical Officials Village and other logistics service area. ITC cooperated with numerous well-known enterprises the following eminent projects: the Polish National Central Banks, the International Financial Building of Azerbaijan, the Romanian Five-star Hotel, the Dubai Seven Star Hotel, the Singapore Racecourse, the USA Florida Intercontinental Hotel, the University of Toronto, the National Museum of Istanbul, the Turkey Istanbul High School, the London Art Galleries and so on.

Year 2011

ITC successfully installed Network Audio System for Shenzhen 2011 World Universiade Olympic Games. Move into new 20,000 square meters manufacturing plant, SMT machine, digital PC controlled punching machine been imported. Cobranet network system and Linux Network Audio System have been launched. Launched new digital conference system.

Year 2012

ITC launched its Cloud-based HD Video Conference System to realize the conference meeting face to face by video without geographical limitation.

Year 2015

ITC installed IP PA & Intercom System in the Subway Center of Chanakyapuri New Delhi India.

Year 2016

ITC installed Evacuation Voice Alarm Public Address System and IP Network Intercom System to EXPO 2016 Antalya in Turkey.

Year 2017

ITC LED Screen, Stage lighting, architecture lighting factory established. ITC Turn-key solution applied to UNASUR Building , Bolivia.

Year 2018

ITC conference system used in the United Nations Convention. Large conference system applied to Ethiopia Afar National Regional State Finance & Economic Development Bureau, Africa.

Year 2019

ITC own independent R&D building which area is about 4,200 square meters. KTV One-stop Solution applied to Grand Park Hotel Myanmar.

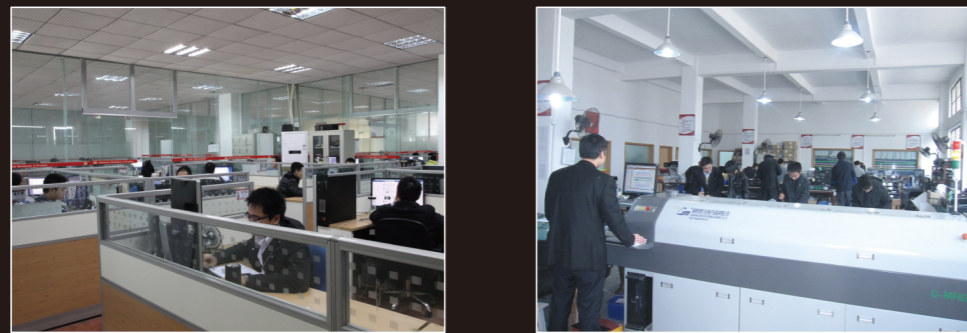
Year 2020

Foundation Laying Ceremony of ITC Industrial Park. ITC 243.3m² P10 Outdoor LED video Wall applied to Vincom Mega Mall Ocean Park City Vietnam.

Office



R&D



Factory



Factory



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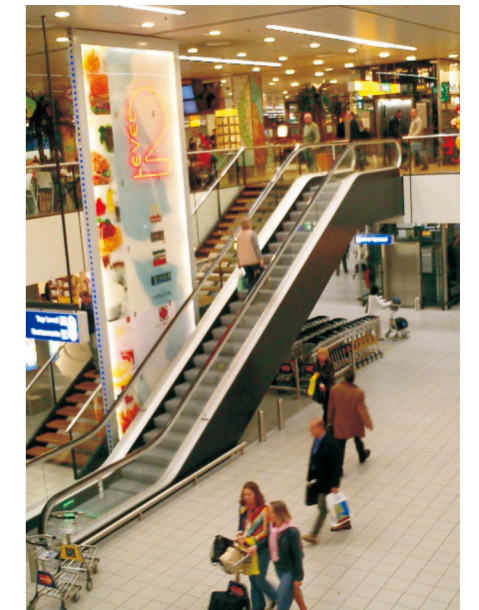
Luna Cloud Voice Platform Network Broadcasting System

Description

The IP network digital broadcasting system, using modern communication network, digital IP/TCP communication protocol that based on network transmission data, transfers the analog digital audio signal encoding in form of data packets in LAN and WAN. It can be multiplexed, one-way or two-way transmission. With standard TCP/IP protocol, it supports cross network, cross routing, Internet transmission and audio transmission network. It is one of the world's most advanced technologies; It completely solves the defects of the traditional broadcasting system like short distance, poor audio quality, complicated maintenance and management, poor interaction and so on. It fully embodies the advanced and superior technology.

The brand new generation Luna cloud voice platform network broadcasting system (Luna cloud for short) technological is achievement of the backbone of R & D personnel R & D team of ITC company Luna project team 3 years scientific research; Luna cloud system is a voice communication operation system based on embedded industry server system (Linux system), with independent intellectual property rights of the ipallocator communication protocol, Cloud Architecture (B/S Architecture) system model "(WEB) and access control mode, gigabit network communication technology and digital audio transmission services. It is a high quality voice intercom system that can form large architecture public broadcasting platform etc.; It realizes real-time broadcast, timing broadcast, zone broadcast, telephone broadcast, free broadcast, off-line broadcast, fire linkage, power control, on site monitoring, two-way intercom, trigger linkage, call recording, log records and other functions, completely covering all the functions of the traditional broadcasting system.

Luna cloud industry applications: internal communication and external communication applications (banks, factories and mines, transportation, prisons, hospitals and so on), broadcasting application (airport, teaching, community, parks, buildings, stadiums, stations, terminals, etc.).



Function Highlights

Cloud Architecture

* Luna cloud system is based on the Linux system, using the cloud architecture to support the three models of erection:

- 1) single mode / standby mode: Support maximum 10000 devices and 2500 real-time tasks.
- 2) P2P: Support a maximum 300000 devices and 150000 real-time tasks.
- 3) convergence pattern: Support maximum 1000000 devices and 500000 real-time tasks, with load balancing, fault redundancy and N2O x 1 intelligent operating platform.



New Communication and High Security

* With independent intellectual property rights ipallocator communication protocol.

* According to the application requirements of broadcasting and communication platform, upgrade, expansion, data encryption etc.

* Data security encryption communication protocol support up to SSL, can be applied to the internal communication system security organ.



High-definition Sound Quality, Low Bandwidth

* Professional grade audio solution supports user-defined audio stream and network bandwidth occupancy rate; Supports 756Kbps stream to meet the demand of high-end customers; minimum supports 8Kbps stream to solve the problem of insufficient network resources.

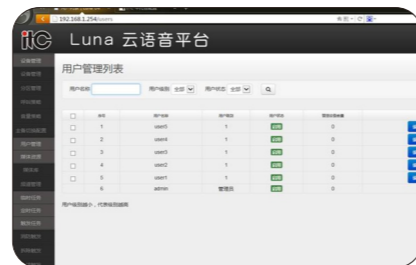


Cross Platform, Free Installation Control

* Luna cloud IOS, fully supports Android, OSX, Chro, meOS, Linux, Windows, WP seven operating system platform.

* Brand-new web control, using the most fluent HTML5 technology, bootstrap interactive experience, background automatically push, real-time state, real dynamic drag and drop.

* Free installation.



Air Play Wireless Technology, Interconnection

* Luna cloud system integrated Air Play wireless technology, all the mobile phones, tablet PC that support Air Play features, can be worry-free access to use; Air Play also has a piece of the same broadcast, song information display and other features. Air Play also features a simulcast, song information display and other functional advantages, The traditional broadcast control platform is out of reach.



Innovative Industrial Design

* Terminal is with 7-inch industrial 10-spot touch screen , Gorilla glass, high-end design.

* With industrial-grade full aluminum case, small and exquisite appearance, excellent heat dissipation to ensure stable 7 x 24 hours operation.

* Slide-type construction and installation, elegant and reliable design.

* 17 inch large and multi-spot touch screen, flexible and reliable integration IPC with keyboard.



Ultra Strong Network Adaptability

* Terminal is built in native Gigabit Ethernet, standard dual NIC (individual models exceptions),

supports switch mode, real-time automatic standby redundant mode (no need third-party switch support), routing mode, dual-card mode, load balancing mode, it can be flexible application and exact

match in any network requirements and environment.



Dual Power Supply Design

* Dual power supply design, which is built-in professional-grade server, more secure and reliable compared to UPS standby power mode.



User-defined Task Priority

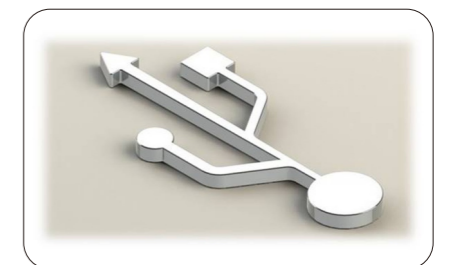
* The system supports user-defined task priority.

* Includes the local message priority, intercom priority, music and the timing broadcast priority, flexible matching application with of various application requirements.



Local Media Push

* Terminal supports USB2.0 HS and SDHC high-speed storage devices, to reach stable and reliable media push .



VOIP Phone Broadcasting

* Luna cloud system adopts standard SIP protocol, supports IP network telephone access based on standard SIP protocol, to fulfill IP network telephone broadcasting.



Various Events Management

* The system supports a variety of events management, including failure, on-line, offline, emergency, short circuit, ambient sounds pressure.



Multi-party Call Access

* The system supports up to 128 professional multi-party call access, highly integrated to unified communications platform.



Authorization Management

* The system supports the user authorization and user equipment management, scope management, meanwhile the system UI is with feature of intelligent assign for authorization.



Logging Management

* System has powerful log record and management function. Device configuration, user playback, operation records, fault events, all is the fundamental basis to ensure the system stable operation and achieve unified management.



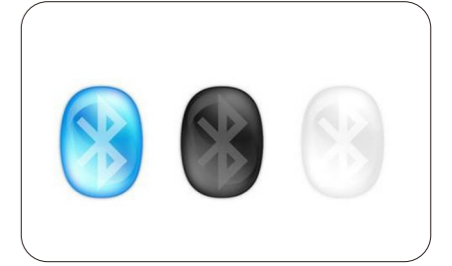
Environment Monitor

* IP network audio terminal is built in pickup microphone, to monitor the sound environment of the terminal location from the control room, and does not affect the terminal audio broadcast; it can be used to teaching evaluation and sounds fault detection.



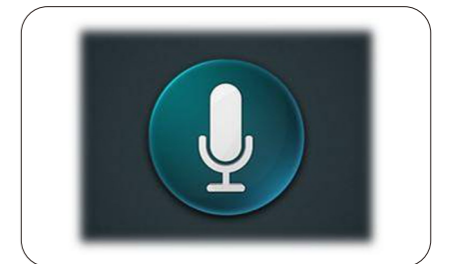
2.4G Bluetooth Microphone

* IP network terminal is built in 2.4G wireless audio module, working with 2.4G wireless microphone to fulfill local wireless broadcasting.



Background Recording

* Each terminal server can be real-time recording or broadcasting intercom audio information, convenient information query.



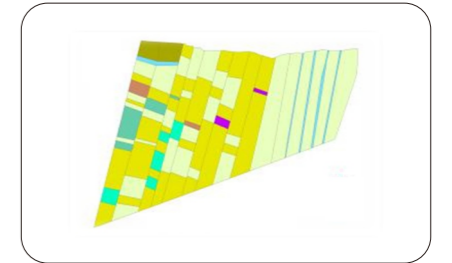
Intercom

* It supports audio terminal full-duplex real-time two-way intercom and emergency communications; support various modes, such as one key to ask for help, one key to broadcast, one key to monitor, multi-party online call mode; supports user-defined setting for timing and call transfer policy, supports other user-defined functions such as, calling time limit, automatically hang up if no sound, time delay and so on.



Unlimited Zones

* The digital IP network system can achieve unlimited zones, very easy to extend zones and functions on demand.



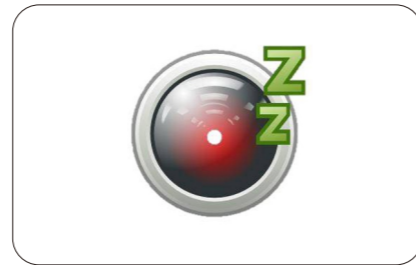
Touch-screen Control

* Can operate on touch screen display of controller or terminal.



Terminal Sleep

* IP network terminal will automatically go into standby mode when there is no signal, to be energy saving and environmental protection.



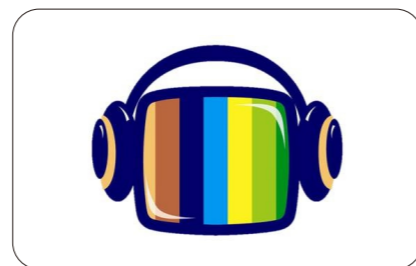
Fault Detection

* According to the IP address, the IP broadcast server can detect the working status like each terminal line, volume..... very easy for maintenance.



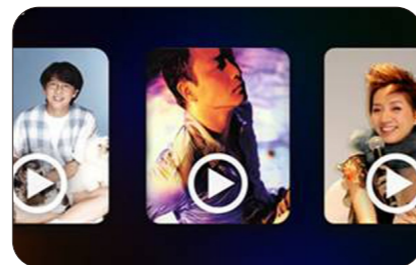
Radio Establishment

* It can collect and play the audio files on server to realize multiple audio program broadcasting, loop play, and user defined broadcasting way, which meet the user's demands very well!



Free on Demand

* Through the remote control, touch screen, or equipment panel buttons to operate the IP network audio terminal and achieve the music library server program on demand; the LCD screen on the Network adaptor has a directory and can support fast forward, fast down, reread, broadcasting speed change, segment play, loop playback, timing and select to play, etc.



Multi-channel Real-time Broadcast

* It can collect multichannel audio at the same time through the server sound card. Different zone play different audio source, Max support 14 audio collection at the same time.



Offline Program Broadcast

* IP network audio terminal built-in 2Gbyte SSD, support the remote server management, limited bandwidth background download and idle time automatic download to reduce the burden of network; support media library files offline automatic playback function.



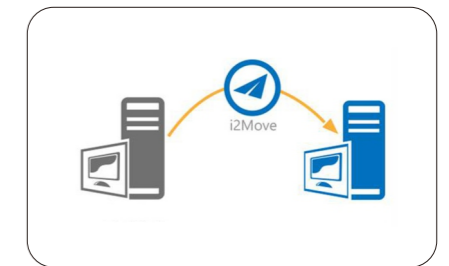
Integrated Fire Trigger

* Luna cloud server support a variety of solutions like fire alarm, alarm demolition, sound pressure testing, terminal online, terminal offline, terminal fault linkage trigger etc, it can trigger linkage the network audio terminals to achieve files offline play timely, recording, send short messages, emails, short circuit output, media library broadcast, radio, and other functions.



Server Backup

* Server support backup function, the increased standby server connected with the main server through network to achieve real-time synchronization data sharing and automatic be detected on time and replacement and backup when the main server failed, very reliable!

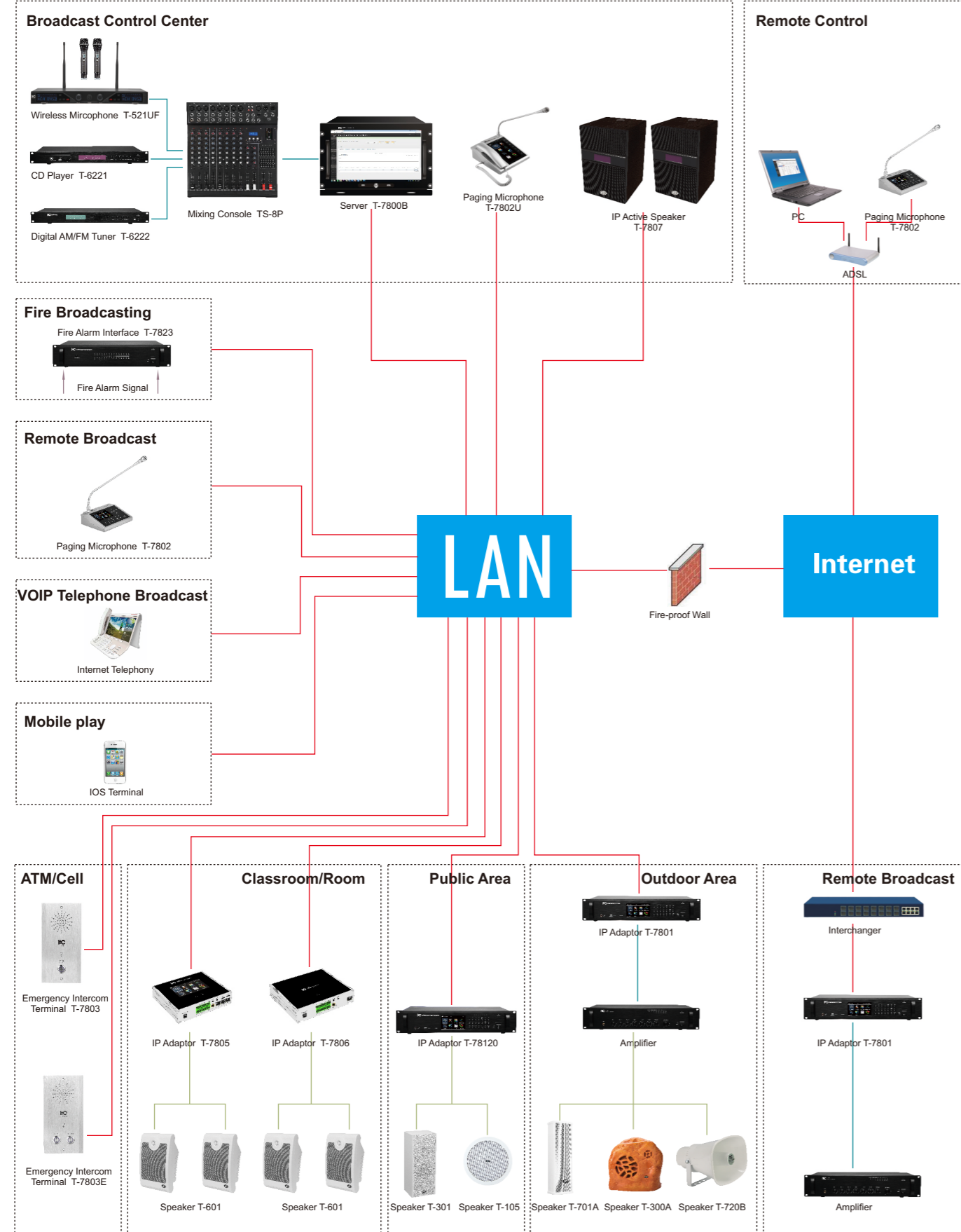


Three-wire Cut Out

* The IP network audio terminal come with three-wire system cutout signal output, which solved limit of the signal transmission distance and volume control quantity of the traditional 24V cutting model and save the cables and tubes.



Luna Cloud Voice Platform Network Broadcasting System Diagram



IP Network controller T-7800A



Description

The IP network controller is the operating carrier of the IP PA system server software. Working with the Luna cloud-based PA system software, it acts as the control center of the PA system. Installed in the main control room, it conducts real-time and effective management of the entire PA system.

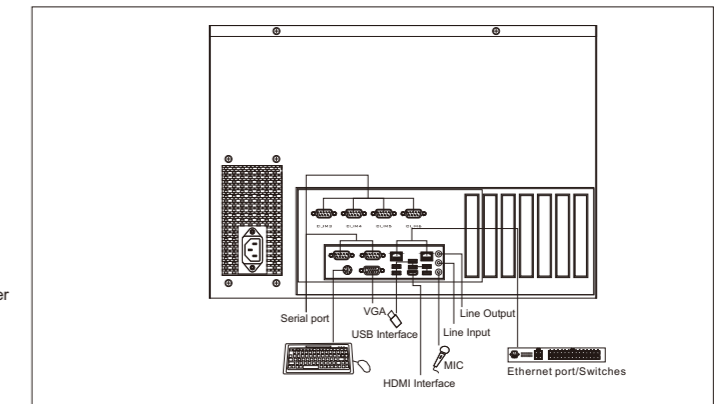
Feature

- * The industrial-grade IPC cabinet adopts a steel structure, which is highly anti-magnetic, dust-proof and shock-proof.
- * 17.3-inch LED LCD display, built-in 10-point capacitive touch screen, user-friendly operation.
- * Industrial control telescopic keyboard design, more convenient operation, support 1 HDMI HD video output.
- * Industrial-grade dedicated motherboard design, Intel B75 chip-set architecture, Intel Core i7-2600 @ 3.40GHz quad-core CPU, memory DDR3 standard 8G.
- * Built-in large-capacity 256G mSATA hard disk, speed of reading and writing up to 600MB/S, no movable mechanical parts, super durability and reliability.
- * It has 8 USB ports and 6 universal serial ports, convenient for the access of external peripheral equipment.
- * Support 2 channels of sound cards, receive external audio signals and collect them to the server program channel, which will be uniformly played by the server to the front-end network audio terminals. Support dual graphics cards and can be connected to the largest FullHD display device.
- * Support automatic start-up after turning on the power, scheduled power-on/off of the operating system; support the automatic power-on function triggered by external devices. It is convenient for the flexible operation and management of the project, and reduces unnecessary power loss.
- * Linux system works as the core operating platform, providing strong openness, easy extension and upgrade, powerful network support, high security, and strong compatibility.
- * Unified management of all audio terminals in the system, including paging microphones, intercom terminals, broadcasting terminals and fire alarm interface devices.
- * It can manage a maximum of 300 terminal devices and support a maximum of 150 groups of differentiated real-time tasks.
- * The system has a strong backup mechanism, which can realize seamless switching when the main server fails.
- * Standard dual network interface, support switching of extension mode and redundant backup mode, full connection rate up to 1000M, support cross network band and cross router mode.
- * Support primary and spare server mode, and the spare server as a hosting application, support NTP (time synchronization) server calibrating time with GPS.
- * Support distributed deployment of multiple servers and server cluster architecture.

Specifications

Model	T-7800A
Screen size	17.3 inches
Screen color	24-bit full color
Display screen	17.3-inch high-resolution LED LCD screen (1920*1080)
Control method	10-point capacitive touch screen
Screen ratio	16:9
Working temperature	-10°C~50°C
Storage temperature	-20°C~60°C
Relative humidity	10%~95%, no condensation
Standard interface	1×PS/2 port; 6×serial port; 1×VGA; 1×HDMI, 8×USB port; 2×Gigabit Ethernet port; 1×Audio
Hard disk	Support 3.5", 2.5", mSATA hard disk; standard configuration: mSATA 256GB
RAM	DDR3 1333/1600 MHz, support up to 16GB; standard configuration: 8G/DDR3 /1600 MHz
Network card	Intel dual gigabit network interface network card
CPU	Intel Core i7-2600 @ 3.40GHz quad core
Chip-set	Intel B75
System audio signal SNR	LINE: 70dB; MIC: 60dB
System audio signal distortion	1KHz<0.5%
System audio signal standard input level	LINE: 300mV; MIC: 5mV
System audio signal standard output level	0dBV
Power supply	Input voltage: AC100V-240V
Software operating platform	ubuntu
Size(mm)	484×358.5×306.5(W×H×D) (without handle)
Weight	18.4kg

Rear Panel



**IP Network Controller
T-7800H**



Description

The IP network controller is the operating carrier of the IP PA system server software, and also the control center of the PA system. Installed in the main control room, it conducts real-time and effective management of the entire PA system.

Feature

- * High-strength aluminum alloy panel, metal housing, high-temperature baking paint, simple and elegant appearance.
- * Dust-proof air duct design, low noise, fast heat dissipation, and stable operation of the whole machine.
- * Pure industrial design, excellent heat dissipation structure, AC100-240V wide voltage input; the cabinet can resist contact 4Kv strong electromagnetic interference.
- * With 2 Xeon E5-2643V2 server processors, multi-core and multi-threaded, fast computing speed.
- * The server motherboard comes standard with 2 gigabit network cards (Intel82574 network card chip), 1 independent remote control interface (IPMI), easy to manage and maintain, 6 COM ports (RS-232), 6 USB2.0 ports, independent graphics card, 7.1 channel independent sound card.
- * Telescopic keyboard and mouse design, independent graphics card, multiple PCI, PCIE, HDMI+DVI high-definition interface outputs, support Blu-ray HD hard-decoding, support network or local 1080P video.
- * It has an interface of short circuit triggering the start-up and operating, which is used to drive the start-up and operating by external equipment at the scheduled time to realize unattended function.
- * Support recording storage function; support customizing the save path of the recording file in the background.

Specifications

Model	T-7800H
Screen	17.3 inches
Resolution	1920(H)×1080(V)
Brightness	300cd/m²
Viewing angle	89/89/89/89 (up/down/left/right)
Touch screen	Ten-point industrial standard capacitive touch screen
CPU	Intel®Xeon®processorE5-2600, Intel®Xeon®processorE5-2600v2, DualSocketLGA-2011(SocketR3), standard E5-2643V2×2CPU (CPU clock speed 3.5GHz, six cores and twelve threads)
Chipset	C602
BIOS	16MBSPIAMIBIOS@SMFlashBIOS
RAM	8×DIMM, up to 512GB RECC DDR3/1600MHz, standard 2×16GBRECC DDR3/1600MHz
Display	NuotonBMCVideoController (MatroxG200eW), standard G2101G independent graphics card
Extension slot	3*PCIE3.0x16, 1*PCIE2.0x4 (inx8), 1*PCIE2.0x1, 1*PCI
Network function	2×10/100/1000Mbps adaptive network port, support remote wake-up
Hard Disk Bit	Support 2×2.5" and 2×3.5" hard disk bits, standard 1×128GSSD+1T 3.5-inch enterprise hard disk
I/O interface	1 HDMI and 1 DVI video output port, 2×LAN, support 10/100/1000Mbps (82574), 1×IPMI, 6×COMRS232, 6×USB2.0, 2×audio output interfaces, 1×TRIGGERINPUT
Sound card	7.1 sound card
Working temperature	-10℃-60℃, 5%~95% (non-condensing state)
Storage temperature	-20℃-70℃, 5%~95% (non-condensing state)
Power supply	AC100-220VATX300W
ESD	Contact 4kV, air gap 6kV electromagnetic interference
Anti-vibration	GB/T2423.10
Housing material	High-strength aluminum alloy panel
Installation method	Rack-mount or desktop
Software operating platform	ubuntu
Size	484×353.5×339.43mm (W×H×D)
Net weight	19.9kg
Gross weight	22.3kg

**Digital IP PA System Software V3.0
T-7800R**



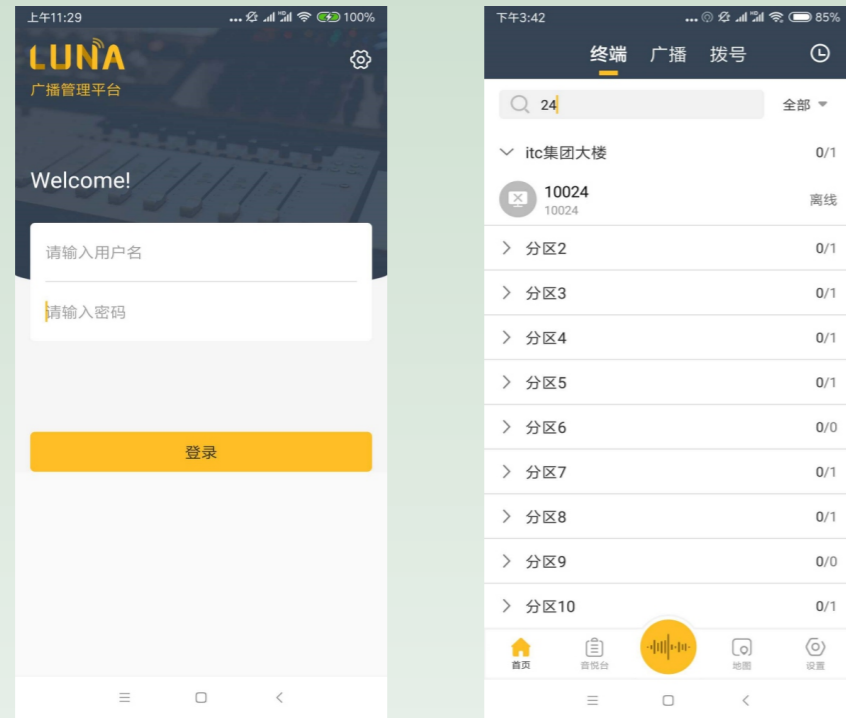
Description

The PA system management and control software, installed in the control center or computer of the IP PA system, is a comprehensive management platform for PA system data exchange, system operation and functional operation.

Features

- * It adopts embedded operating system, and the Linux system works as the core operating platform, providing high security and great stability.
- * B/S platform operating system architecture supports LAN and WAN transmission (cross-network band, cross-router), can be deployed anywhere in the network, and supports any operating system, any browser for remote access.
- * Responsible for audio streaming management, respond to playback requests of audio terminal and audio full-duplex exchange, hold functions of terminal management, user management, program playback management, audio file management, recording storage, internal communication processing and others; manage program library resources, and provide timed playback and real-time media services for all audio terminal devices.
- * Unified management of all audio terminals in the system, including paging microphones, intercom terminals, broadcasting terminals and fire alarm interface equipment.
- * Support TTS voice broadcast, realize the conversion of text into voice playback, in order to meet the needs of different occasions, you can set the speech rate range from 1 to 99 in the background, and you can choose male voice or female voice.
- * Support audio terminal full-duplex real-time two-way communication, support one-key help, one-key broadcast, one-key monitoring, conference mode, simultaneous dialing and other modes, support customized settings of time strategy and transfer strategy, support timed hanging up of a call, automatic hanging up when muted, and the customized conference waiting time.
- * The system supports a maximum of 128 channels of calls simultaneously participating in the conference discussion mode.
- * Build a program resource library, respond to program playback requests of the audio terminal, support the simultaneous establishment of multiple program libraries, support the establishment of program library channels, and the terminal can remotely play channel programs on demand.
- * Support programming timed tasks: timed offline file playback, recording, music file playback, channel broadcasting and so on, support programming multiple timed programs, and support free selection of operating terminals.
- * Support terminal zone management function, customize zone terminals, support selecting broadcasting and dialing functions of the zone number, such as conference mode and customer service mode.
- * Support the terminal recording of the broadcast, intercom, monitoring, and emergency evacuation, and the area and time of recording are customized; timed recording and separated recording functions are supported.
- * Support linkage trigger types such as fire alarm broadcast, terminal dismantlement, terminal online operation, terminal offline operation, sound pressure detection, etc. Trigger tasks include short-circuit output, email sending, SMS sending, recording, pop-up prompts, terminal program playback and so on.
- * Support customized audio stream and network bandwidth occupancy rate; support up to 768Kbps stream to realize high-quality audio playback, and support 8Kbps stream at least to solve the problem of insufficient network resources.
- * Support the simultaneous establishment of multiple management accounts and operation accounts, support the management of terminal quantity, terminal function authority, and account operation authority setting, and support disabling and enabling user functions.
- * Support VOIP phone access.
- * Support 9-level conversation priority setting, support one-click conversation level dragging, and the dragging takes effect immediately.
- * Support terminal customized settings of digital volume including music, intercom, broadcasting and fire alarm, and analog volume including EMC, LINE, earphone, amplifier, monitoring, and External, etc.
- * Support the external power management of the audio terminal, support scheduled power-on and delayed power-off, and the time is customized.
- * Terminals such as computers, smart phones and tablet PCs do not need to install any user programs; support logging in to the system through a browser, with a brand-new user interface, support 3D dynamic drag-and-drop operation and real-time data push.
- * Adopt AirPlay wireless technology, all mobile phones and tablet PCs that support AirPlay can be accessed and used, with user-friendly operations.
- * The software supports the embedded development of third-party platforms to achieve integration with other system platforms (such as building visitor systems, surveillance video systems, etc.), and can provide HTTP interface standard documents and DEMO programs for third parties.
- * Support the control of the PA system through the mobile APP.
- * Support setting the initiator and receiver prompt tone of audio terminal intercom, broadcasting, conference.
- * Support remote automatic upgrade of server system and terminal firmware, support import and export of data backup, and support one-key recovery of factory settings.
- * Support system log recording and real-time display of server operating status graph.
- * Support engineering information recording, convenient for maintenance and inspection.
- * The administrator can import any project plan or map after logging in to the PA system, add the terminal icon to the corresponding position, and graphically display the state of the terminal, and conduct intercom or monitoring with the terminal, which can be output to the LCD TV or display equipment such as large screens or projections, allowing monitoring personnel to monitor the running status of the terminal in real time.

Luna Cloud-based PA System Android APP V2.20 T-7800SA



Description

The APP is the control part of the broadcast intelligent management system. Based on the Android system, it is a PA system application software that is suitable for schools, parks, stations, shopping malls and other large places. It holds many functions including regional broadcast, terminal intercom, task broadcast, terminal positioning, media music playback, etc. The system solves the pain points of information transmission, which is widely used in school broadcast, emergency broadcast and other scenes.

Feature

- * Support checking the status of each terminal such as online, busy, offline, and disabled;
- * Support one-to-one and one-to-many terminal broadcasts;
- * One-to-one terminal intercom, video calls can be made between different accounts of two mobile phones;
- * Support local playlist file creation, media music playback, and temporary task broadcast to designated terminals;
- * Support 4G network; can initiate tasks to terminals of designated areas anytime and anywhere;
- * Support marking the location of the terminal; the terminal information is at a glance on the map;
- * Broadcast and intercom tasks can be queried in the history record, and the task can be initiated again;
- * Multi-language adaptation. Support Chinese and English.

Basic software information

Version information	V2.20
Development language	Java
Operating environment	Running version 5.1 or higher; running memory 4GB or higher; screen resolution 720P or higher; compatible with mainstream mobile phones in the market; compatible with tablet computers, but not recommended.
Server adaptation	luna_server_all_20191125.1125.deb

Luna Cloud-based PA System IOS APP V2.20 T-7800SI



Description

The APP is the control part of the broadcast intelligent management system. Based on the IOS system, it is a PA system application software that is suitable for schools, parks, stations, shopping malls and other large places. It holds many functions including regional broadcast, terminal intercom, temporary task broadcast, media music playback, etc. The system solves the pain points of information transmission, which is widely used in school broadcast, emergency broadcast and other scenes.

Feature

- * Support checking the status of each terminal such as online, busy, offline, and disabled;
- * Support one-to-one and one-to-many terminal broadcasts;
- * One-to-one terminal intercom, video calls can be made between different accounts of two mobile phones;
- * Support local playlist file creation, media music playback, and temporary task broadcast to designated terminals;
- * Support 4G network; can initiate tasks to terminals of designated areas anytime and anywhere;
- * Support marking the location of the terminal; the terminal information is at a glance on the map;
- * Broadcast and intercom tasks can be queried in the history record, and the task can be initiated again;
- * Multi-language adaptation. Support Chinese and English.

Basic software information

Version information	V2.20
Development language	Objective-C
Operating environment	This software is greatly useful and reliable. It can run on mobile phones with iOS 10.0 and newer versions; it is not compatible with iPad.
Server adaptation	luna_server_all_20191125.1125.deb

Digital IP PA System Software V3.0 T-7800R1



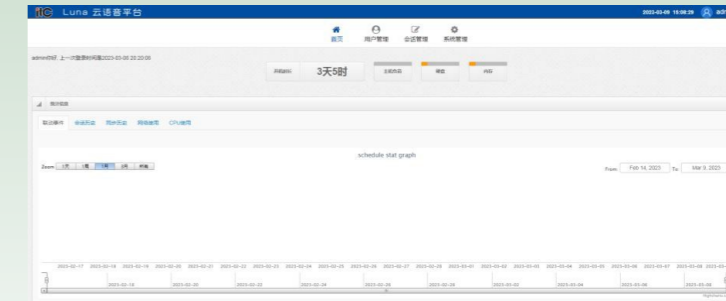
Description

The PA system management and control software, installed in the control center or computer of the IP PA system, is a comprehensive management platform for PA system data exchange, system operation and functional operation.

Features

- * It adopts embedded operating system, and the Linux system works as the core operating platform, providing high security and great stability.
- *B/S platform operating system architecture supports LAN and WAN transmission (cross-network band, cross-router), can be deployed anywhere in the network, and supports any operating system, any browser for remote access.
- *Responsible for audio streaming management, respond to playback requests of audio terminal and audio full-duplex exchange, hold functions of terminal management, user management, program playback management, audio file management, recording storage, internal communication processing and others; manage program library resources, and provide timed playback and real-time media services for all audio terminal devices.
- *Unified management of all audio terminals in the system, including paging microphones, intercom terminals, broadcasting terminals and fire alarm interface equipment.
- *Support TTS voice broadcast, realize the conversion of text into voice playback, in order to meet the needs of different occasions, you can set the speech rate range from 1 to 99 in the background, and you can choose male voice or female voice.
- *Support audio terminal full-duplex real-time two-way communication, support one-key help, one-key broadcast, one-key monitoring, conference mode, simultaneous dialing and other modes, support customized settings of time strategy and transfer strategy, support timed hanging up of a call, automatic hanging up when muted, and the customized conference waiting time.
- *The system supports a maximum of 128 channels of calls simultaneously participating in the conference discussion mode.
- *Build a program resource library, respond to program playback requests of the audio terminal, support the simultaneous establishment of multiple program libraries, support the establishment of program library channels, and the terminal can remotely play channel programs on demand.
- *Support programming timed tasks: timed offline file playback, recording, music file playback, channel broadcasting and so on, support programming multiple timed programs, and support free selection of operating terminals.
- *Support terminal zone management function, customize zone terminals, support selecting broadcasting and dialing functions of the zone number, such as conference mode and customer service mode.
- *Support the terminal recording of the broadcast, intercom, monitoring, and emergency evacuation, and the area and time of recording are customized; timed recording and separated recording functions are supported.
- *Support linkage trigger types such as fire alarm broadcast, terminal dismantlement, terminal online operation, terminal offline operation, sound pressure detection, etc. Trigger tasks include short-circuit output, email sending, SMS sending, recording, pop-up prompts, terminal program playback and so on.
- *Support customized audio stream and network bandwidth occupancy rate; support up to 768Kbps stream to realize high-quality audio playback, and support 8Kbps stream at least to solve the problem of insufficient network resources.
- *Support the simultaneous establishment of multiple management accounts and operation accounts, support the management of terminal quantity, terminal function authority, and account operation authority setting, and support disabling and enabling user functions.
- *Support VOIP phone access.
- *Support 9-level conversation priority setting, support one-click conversation level dragging, and the dragging takes effect immediately.
- *Support terminal customized settings of digital volume including music, intercom, broadcasting and fire alarm, and analog volume including EMC, LINE, earphone, amplifier, monitoring, and External, etc.
- *Support the external power management of the audio terminal, support scheduled power-on and delayed power-off, and the time is customized.
- *Terminals such as computers, smart phones and tablet PCs do not need to install any user programs; support logging in to the system through a browser, with a brand-new user interface, support 3D dynamic drag-and-drop operation and real-time data push.
- *Adopt AirPlay wireless technology, all mobile phones and tablet PCs that support AirPlay can be accessed and used, with user-friendly operations.
- *The software supports the embedded development of third-party platforms to achieve integration with other system platforms (such as building visitor systems, surveillance video systems, etc.), and can provide HTTP interface standard documents and DEMO programs for third parties.
- *Support the control of the PA system through the mobile APP.
- *Support setting the initiator and receiver prompt tone of audio terminal intercom, broadcasting, conference.
- *Support remote automatic upgrade of server system and terminal firmware, support import and export of data backup, and support one-key recovery of factory settings.
- *Support system log recording and real-time display of server operating status graph.
- *Support engineering information recording, convenient for maintenance and inspection.
- *The administrator can import any project plan or map after logging in to the PA system, add the terminal icon to the corresponding position, and graphically display the state of the terminal, and conduct intercom or monitoring with the terminal, which can be output to the LCD TV or display equipment such as large screens or projections, allowing monitoring personnel to monitor the running status of the terminal in real time.

Digital IP PA System Software V3.0 T-7800RC



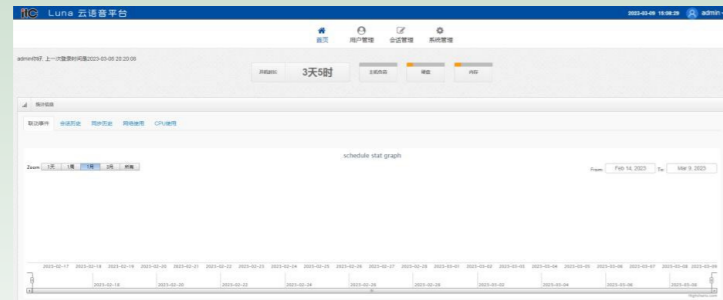
Description

As the PA system management software, it is installed in the IP PA control center or computer, and works as a comprehensive management platform for data exchange, system operation and functional operation of the PA system.

Features

- * The embedded platform operating system is adopted; the server-level Uniontech system is used as the core operating platform, which prevents the system from being disturbed and destroyed by viruses, and greatly improves the stability of the system operation.
- * The B/S operating system architecture supports LAN and WAN transmission (cross-network segment and cross-routing), can be deployed anywhere in the network, and supports any operating system and any browser for remote access and login.
- * Responsible for audio stream transmission management, responding to audio terminal playback requests and audio full-duplex exchange, with functions such as terminal management, user management, program playback management, audio file management, recording storage, and intercom scheduling processing; support management of program library resources, provide scheduled playback and real-time on-demand media services for all audio terminals.
- * Support unified management of all audio terminals in the system, including paging microphones, intercom terminals, broadcast terminals and fire interface equipment.
- * Support TTS voice broadcast, realize the conversion of text into voice playback, in order to meet the needs of different occasions, you can set the speech rate range from 1 to 99 in the background, and you can choose male voice or female voice.
- * Support full-duplex real-time two-way communication of audio terminals, support one-key help, one-key broadcast, one-key monitoring, conference mode, simultaneous dialing and other call modes, support custom settings of time policy and transfer policy, support time-limited hangup, auto hangup when muted, custom conference waiting time function.
- * Support a maximum of 128 multi-party calls to participate in the conference discussion mode.
- * Establish a program resource library, responding to the program playback requirements of the audio terminal, support the simultaneous establishment of multiple program libraries, support the establishment of program library channels; the terminal can remotely order channels to play on-demand programs.
- * Program timing tasks, support timed offline file playback, recording, music file playback, channel broadcasting and other programming solutions, support programming multiple sets of timing tasks, and support flexible selection of execution terminals.
- * Support zonal terminal management function, customize zone terminals, support broadcast and dial functions of selected zone numbers, such as conference mode, and service mode.
- * Support terminal broadcasting, intercom, monitoring, and emergency fire recording; recording zone and recording time can be set flexibly; support timed recording and recording by time period.
- * Support linkage trigger types such as fire broadcast, terminal disassembly, terminal online, terminal offline, and sound pressure detection; trigger tasks include short-circuit output, Email, SMS, recording, pop-up prompts, and terminal program playback.
- * Support user-defined audio stream and network bandwidth occupancy rate; support up to 768Kbps stream to meet high-quality audio playback requirements; support a minimum of 8Kbps stream to solve the problem of insufficient network resources.
- * Multiple management accounts and operation accounts can be established at the same time; support managing terminal quantity, terminal function authority, account operation authority; support disabling and enabling user functions.
- * Support VOIP phone access.
- * Support 9-level session priority setting, support one-click session level dragging, and the dragging takes effect immediately.
- * Support the terminal to customize the digital volume of music, intercom, broadcast, fire protection, etc., and the analog volume of EMC, LINE, earphones, amplifier, monitor, and External.
- * Support external control power management of audio terminal, support timed opening and delayed closing, and the time can be set flexibly.
- * Terminals such as computers, smart phones, and tablets log in to the system through a browser, no need to install any user programs. The brand-new human-computer interface supports 3D dynamic drag-and-drop operations and real-time data push.
- * Integrating AirPlay wireless technology, all mobile phones and tablets that support AirPlay functions can be connected and used, making it unparalleled in ease of use.
- * The software supports embedded development of third-party platforms, and realizes integration with other system platforms (such as building visitor systems, surveillance video systems, etc.), and provides standard documents and DEMO programs of HTTP interfaces for third-party invocation and development.
- * Support the control of the PA system through the mobile phone APP.
- * Support audio terminal intercom, broadcast, conference initiator and receiver prompt tone settings.
- * Support remote automatic upgrade of server system and terminal firmware, support data backup import and export, and support one-key factory reset.
- * Support system log records and support graphic real-time display of server running status.
- * Support engineering information record, convenient maintenance and viewing.
- * The administrator logs in to the PA system through the web to import any project plan or map, add the terminal icon to the corresponding position to graphically display the status of the terminal, and perform intercom or monitor functions on the terminal, which can be output to display equipment such as LCD TV or large screen or projection screen, allowing monitoring personnel to view the operating status of the terminal in real time, suitable for use in large-scale monitoring and broadcasting projects.

Digital IP PA System Software V3.0 T-7800RC1



Description

As the PA system management software, it is installed in the IP PA control center or computer, and works as a comprehensive management platform for data exchange, system operation and functional operation of the PA system.

Features

- * The embedded platform operating system is adopted; the server-level Uniontech system is used as the core operating platform, which prevents the system from being disturbed and destroyed by viruses, and greatly improves the stability of the system operation.
- * The B/S operating system architecture supports LAN and WAN transmission (cross-network segment and cross-routing), can be deployed anywhere in the network, and supports any operating system and any browser for remote access and login.
- * Responsible for audio stream transmission management, responding to audio terminal playback requests and audio full-duplex exchange, with functions such as terminal management, user management, program playback management, audio file management, recording storage, and intercom scheduling processing; support management of program library resources, provide scheduled playback and real-time on-demand media services for all audio terminals.
- * Support unified management of all audio terminals in the system, including paging microphones, intercom terminals, broadcast terminals and fire interface equipment.
- * Support TTS voice broadcast, realize the conversion of text into voice playback, in order to meet the needs of different occasions, you can set the speech rate range from 1 to 99 in the background, and you can choose male voice or female voice.
- * Support full-duplex real-time two-way communication of audio terminals, support one-key help, one-key broadcast, one-key monitoring, conference mode, simultaneous dialing and other call modes, support custom settings of time policy and transfer policy, support time-limited hangup, auto hangup when muted, custom conference waiting time function.
- * Support a maximum of 128 multi-party calls to participate in the conference discussion mode.
- * Establish a program resource library, responding to the program playback requirements of the audio terminal, support the simultaneous establishment of multiple program libraries, support the establishment of program library channels; the terminal can remotely order channels to play on-demand programs.
- * Program timing tasks, support timed offline file playback, recording, music file playback, channel broadcasting and other programming solutions, support programming multiple sets of timing tasks, and support flexible selection of execution terminals.
- * Support zonal terminal management function, customize zone terminals, support broadcast and dial functions of selected zone numbers, such as conference mode, and service mode.
- * Support terminal broadcasting, intercom, monitoring, and emergency fire recording; recording zone and recording time can be set flexibly; support timed recording and recording by time period.
- * Support linkage trigger types such as fire broadcast, terminal disassembly, terminal online, terminal offline, and sound pressure detection; trigger tasks include short-circuit output, Email, SMS, recording, pop-up prompts, and terminal program playback.
- * Support user-defined audio stream and network bandwidth occupancy rate; support up to 768Kbps stream to meet high-quality audio playback requirements; support a minimum of 8Kbps stream to solve the problem of insufficient network resources.
- * Multiple management accounts and operation accounts can be established at the same time; support managing terminal quantity, terminal function authority, account operation authority; support disabling and enabling user functions.
- * Support VOIP phone access.
- * Support 9-level session priority setting, support one-click session level dragging, and the dragging takes effect immediately.
- * Support the terminal to customize the digital volume of music, intercom, broadcast, fire protection, etc., and the analog volume of EMC, LINE, earphones, amplifier, monitor, and External.
- * Support external control power management of audio terminal, support timed opening and delayed closing, and the time can be set flexibly.
- * Terminals such as computers, smart phones, and tablets log in to the system through a browser, no need to install any user programs. The brand-new human-computer interface supports 3D dynamic drag-and-drop operations and real-time data push.
- * Integrating AirPlay wireless technology, all mobile phones and tablets that support AirPlay functions can be connected and used, making it unparalleled in ease of use.
- * The software supports embedded development of third-party platforms, and realizes integration with other system platforms (such as building visitor systems, surveillance video systems, etc.), and provides standard documents and DEMO programs of HTTP interfaces for third-party invocation and development.
- * Support the control of the PA system through the mobile phone APP.
- * Support audio terminal intercom, broadcast, conference initiator and receiver prompt tone settings.
- * Support remote automatic upgrade of server system and terminal firmware, support data backup import and export, and support one-key factory reset.
- * Support system log records and support graphic real-time display of server running status.
- * Support engineering information record, convenient maintenance and viewing.
- * The administrator logs in to the PA system through the web to import any project plan or map, add the terminal icon to the corresponding position to graphically display the status of the terminal, and perform intercom or monitor functions on the terminal, which can be output to display equipment such as LCD TV or large screen or projection screen, allowing monitoring personnel to view the operating status of the terminal in real time, suitable for use in large-scale monitoring and broadcasting projects.

Rack-mount IP Network Audio Terminal T-7801



Feature

- * The standard 19-inch rack-mount design, full-aluminum industrial panel, 4.3-inch LCD screen in TFT color, 21-key industrial metal, reserved function of infrared receiver to simplify the remote control.
- * Graphical volume adjustment interface to adjust the volume of network programs, local MICs, and local AUX.
- * The product is based on Luna cloud servers, with very high safety and excellent stability; support 7 × 24 hours continually working.
- * Rich network access methods, including DHCP to automatically assign access, ADSL intelligent dial-up access, and fixed IP address access.
- * Integrated 24Bit professional-grade sound card, enabling enthusiast audio playback, and the highest audio stream is 768kpbs.
- * Built-in 8GByte SSD, support remote management on the server, support background downloading in limited network speed or automatic download during spare time, which reduced the burden on the network, the files in media library can be played automatically in offline state.
- * Integrated USB and Micro SD (TF) card interface, maximum support 4T USB storage devices and 128G / SDXC card, and achieve the audio file playing, can make the USB, TF card, media library be freely broadcast on demand to terminals within authority scope.
- * Built-in 2 channel independent audio output to achieve external amplifier amplification; Support the standard headset interface, audio monitor and headset amplification, etc.
- * With 1 AUX audio input, 1 group MIC input, 1 EMC emergency input; Built-in digital pre-amplifier; support user-defined priority; with 1 monitor MIC to achieve equipment self-test, working environment monitoring and operator assessment.
- * 2 Short-circuit outputs, 2 short-circuit inputs, support flexible customization function, and can realize short-circuit collection, alarm trigger, and fire control, monitoring and other linkage working with the equipments from third party and the platform application.
- * 2 x 2200W power interfaces, with functions of intelligent power management, automatically cut off output power when there is no program or radio play, which saves lots energy, also with function of pre-programmed power on.
- * 2-way and three-wire volume control with relay, without DC24V strong cutting power, with an unlimited number of volume control.
- * Graphical interface of volume control, adjustable network programs, local MIC, local AUX Volume
- * With function of sound pressure alarm, when the detected volume continuously exceeds the preset range of sound pressure, it can automatically trigger specified terminal for alarm according the preset program, the trigger software interface will pop-up prompts, meantime, there is synchronizing Email sending and so on.
- * Support checking information about devices status and management equipment on the WEB viewing devices of the system backstage.
- * It supports remote hardware updating of the terminal, no need go to upgrade at the local site, to reduce maintenance burdens and make more simple operation.
- * Support intelligent power saving and pre-opening management, to achieve system energy saving and equipment with stable and reliable work, guarantee reliable and stable controlled devices work.
- * Support multiple users' switching login, and customize the using priority of user function.
- * Support function of restoring factory configuration when there is short circuit triggered, to make the system maintenance in the most convenient way.
- * Real-time display the status information on program broadcasting, two-way intercom, regular broadcasting, equipment operating, IP address, MAC address etc, and can be one-key stop programming task.
- * With city power supply in wide voltage +24V standby power supply with zero switching time provide the terminal's 7×24-hour working in the best way.

Application

Installed in rooms with low voltage or equipment rooms in each broadcast management area, you can connect two power amplifiers, mainly for program display and local broadcasting in halls, outdoor and other outdoor areas.

Basic software information

Model	T-7801
Network Interface	Standard RJ45 input
Transmission Rate	100Mbps
Protocol Support	TCP/IP,UDP,IGMP(multicast), IETF SIP
Audio Format	Mp3, WMA, WAV
Audio Mode	16 bit CD quality
Sampling Rate	8K~48K
AUX Input	1 group
AUX Sensitivity	350mV
EMC Input	1 group
EMC Sensitivity	775mV
Local MIC Input	1 group(Optional front TRS interface or rear panel TRS interface or 3.5mm input)
Local MIC Sensitivity	TRS interface 5mV, 3.5mm interface 10mV
Line Output	2 group
Line Output Level/Impedance	1000mV/470Ω
Earphone Output Connector	3.5mm interface
Earphone Load	32Ω
MIC Monitor MIC	1 group
Sensitivity of The Monitor MIC	10mV
USB	Maximum support 4T USB device; loading <0.1A
SD	Maximum support 128G / SDXC card
Power Consumption	20W
Standby Power Consumption	<10W
Frequency Response	80Hz~16KHz -3dB/+1dB
THD	≤0.3%
SNR	>65dB
Short-circuit Input	0V/3.3V, Support dry contact input
Short-circuit Output	Maximum 1A/30VDC dry contact output
Working Temperature	5°C~40°C
Working Humidity	20%~80% Relative humidity, without condensation
Working Voltage	~190-240V 50-60Hz; DC24V/2A
Size	484×327.5×88mm
Weight	4.6Kg

Paging Microphone
 Embedded software: microphone call control embedded software V1.32
T-7802



Description

The professional desktop intercom microphone is mainly used in the main control room, duty room or leadership office. It can be applicable to business paging, intercom and monitoring, etc.

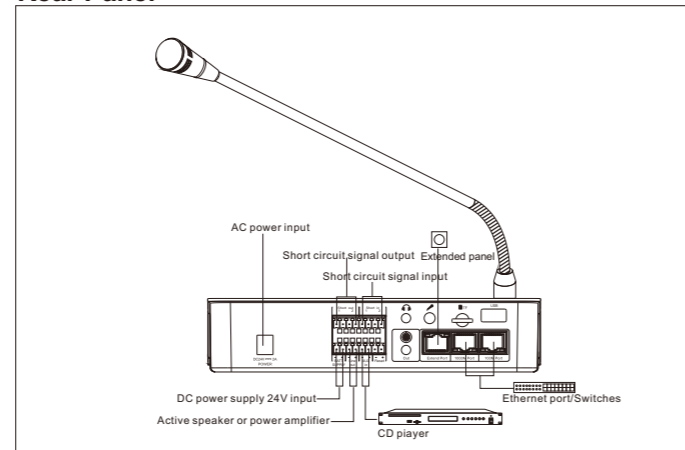
Features

- * Brand-new desktop design, 8-inch capacitive touch screen, high-end and beautiful appearance.
- * 4.3-inch true color LCD display, graphical UI interface, full touch screen control.
- * Graphical volume adjustment interface to adjust the volume of network programs, local MIC, and local AUX.
- * Real-time display of status information such as program broadcast, two-way intercom, timed broadcast, equipment operation, IP address, MAC address, and so on; support stopping the program broadcast with one button.
- * The Luna cloud-based server has high security and excellent stability, and supports 7x24 hours of continuous work.
- * Standard dual network interfaces support exchange extension mode and redundant backup mode; full rate connection is up to 1000M.
- * Rich network access methods, including DHCP automatic allocation access, ADSL intelligent dial-up access, fixed IP address access, etc.
- * Support 485 extension port of RJ45, and various control panels are optional to achieve more control extensions and function extensions.
- * Support help and intercom ring tones, voice reporting, lighting, text and other prompt methods, support one-key answer, one-key monitoring, hands-free calls, and missed call information recording function.
- * Built-in 8GByte SSD, support remote management on the server, support background download in limited network speed or automatic download during idle time, reduce the burden of the network; the media library files support offline automatic playback function.
- * Integrated USB and Micro SD (TF) card interfaces, support up to 4T USB storage devices and 128G/SDXC card, achieve local playback of the audio files, and can broadcast on demand the contents of USB, TF card and media library on the terminals within the authority scope.
- * Built-in 2W full-range intercom speaker provides clear and powerful sound; super and hyper cardioid microphone ensures clear calls without interference.
- * Integrated 24Bit professional sound card, enabling enthusiast audio playback, and the audio stream is up to 768kpbs.
- * 1 AUX audio input, 1 group of MIC inputs, support user-defined priority rank.
- * 2 short-circuit outputs, 2 short-circuit inputs; support flexible short-circuit triggering customized task function; can realize local media playback, local receiving channels, broadcasting, fire alarm, recording, sending messages and emails, and pop-up prompts; can realize electronic lock, fire control, monitoring and other linkage applications of the third party equipment and the platform.
- * Communication protocol: TCP/IP, UDP, IGMP(multicast), IETF SIP; audio format: MP3, WMA, WAV.
- * Support the voice change function, the call initiator can choose to change his voice, which meets the intercom needs of special places.
- * Support short-circuit restoring the factory settings, which is convenient for system maintenance and management to the greatest extent.
- * Support the switching of multiple users, support customized user function permissions.
- * Support viewing equipment status and managing equipment information through the system background WEB.
- * Wide voltage power supply of mains + DC24V standby power supply with zero switching time provide the best energy supply for the 7x24 hours of continuous work of the terminal.
- * Support the PA system remotely upgrading the terminal firmware, without the need to upgrade the terminal locally, reducing the work intensity of maintenance personnel.

Specifications

Model	T-7802
Network interface	Standard RJ45 input
Transmission rate	1000Mbps/100Mbps
Communication protocol	TCP/IP, UDP, IGMP(multicast), IETF SIP
Audio format	Mp3, WMA, WAV
Audio mode	16-bit CD sound quality
Sampling rate	8K~48KHz
AUX input	1 group
AUX sensitivity	350mV
MIC input	1 group(microphone pole or rear headphone 3.5mm interface input is optional)
MIC sensitivity	10mV
Line out output	1 group
Line output level/impedance	1000mV/470Ω
Microphone type	Cardioid directional electret
Headphone output interface	3.5mm interface
Headphone load	32Ω
USB	Support up to 4T USB device; load <0.1A
SD	Support up to 128G/SDXC card
Total power consumption	20W
Standby power consumption	<3W
Frequency response	80Hz~16KHz -3dB/+1dB
THD	≤1%
SNR	>65dB
Short circuit input	0V/3.3V, support dry contact input
Short circuit output	Maximum 1A/30VDC dry contact output
Working voltage	~190-240V 50-60Hz(power adapter); DC24V/1.5A
Extended interface	1×RJ45 special device interface
Working temperature	5°C~40°C
Working humidity	20%~80% relative humidity, no condensation
Size	200×159×55mm (L×D×H)
Weight	1.05Kg

Rear Panel



Paging Microphone
 Embedded software: microphone call control embedded software V1.32
T-7802U



Description

The professional desktop intercom microphone is mainly used in the main control room, duty room or leadership office. It can be applicable to business paging, intercom and monitoring, etc.

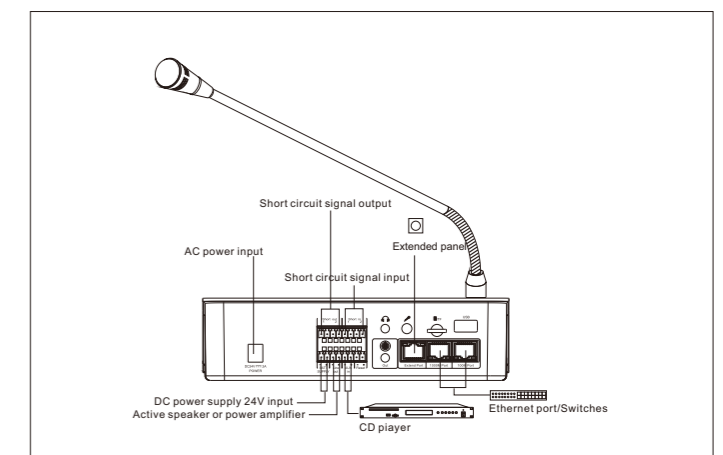
Features

- * Brand-new desktop design, 7-inch TFT true color screen, graphical UI interface, full capacitive touch screen control, user-friendly operation, high-end and beautiful appearance.
- * Graphical volume adjustment interface to adjust the volume of network programs, local MIC, and local AUX.
- * Real-time display of status information such as program broadcast, two-way intercom, timed broadcast, equipment operation, IP address, MAC address, and so on; support stopping the program broadcast with one button.
- * The Luna cloud-based server has high security and excellent stability, and supports 7x24 hours of continuous work.
- * Standard dual network interfaces support exchange extension mode and redundant backup mode; full rate connection is up to 1000M; support cross-network segment and cross-router.
- * Support 485 extension port of RJ45, and various control panels are optional to achieve more control extensions and function extensions.
- * Rich network access methods, including DHCP automatic allocation access, ADSL intelligent dial-up access, fixed IP address access, etc.
- * Support help and intercom ring tones, voice reporting, lighting, text and other prompt methods, support one-key answer, one-key monitoring, hands-free calls, and missed call information recording function.
- * Two calling methods: the microphone pole and the phone handle (hand-held handset can be used for confidential conversation/intercom), suitable for different application places.
- * Support button customization, including one-key broadcast, one-key intercom, one-key conference, one-key music, one-key help, and other shortcut keys.
- * Integrated 24Bit professional sound card, enabling enthusiast audio playback; audio stream is up to 768kpbs.
- * Built-in 8GByte SSD, support remote management on the server, support background download in limited network speed or automatic download during idle time, reduce the burden of the network; the media library files support offline automatic playback function.
- * Integrated USB and Micro SD (TF) card interfaces, support up to 4T USB storage devices and 128G/SDXC card, achieve local playback of the audio files, and can broadcast on demand the contents of USB, TF card and media library on the terminals within the authority scope.
- * Built-in 2W full-range intercom speaker provides clear and powerful sound; super and hyper cardioid microphone ensures clear calls without interference.
- * 1 AUX audio input, 1 group of MIC inputs, built-in digital pre-amplifier, support user-defined priority rank.
- * Built-in 1 Line out independent audio output, realize sound reinforcement with external amplifiers; support standard headset interface, realize audio monitoring, headset microphone sound reinforcement, etc.
- * 2 short-circuit outputs, 2 short-circuit inputs; support flexible short-circuit triggering customized task function; can realize local media playback, local receiving channels, broadcasting, fire alarm, recording, sending messages and emails, and pop-up prompts; can realize electronic lock, fire control, monitoring and other linkage applications of the third party equipment and the platform.
- * Communication protocol: TCP/IP, UDP, IGMP(multicast), IETF SIP; audio format: MP3, WMA, WAV.
- * Support the voice change function, the call initiator can choose to change his voice, which meets the intercom needs of special places.
- * Support short-circuit restoring the factory settings, which is convenient for system maintenance and management to the greatest extent.
- * Support the switching of multiple users, support customized user function permissions.
- * Support viewing equipment status and managing equipment information through the system background WEB.
- * With terminal management function, support directly managing the terminals within the authority, and can view and manage the current tasks and status of the terminal.
- * Wide voltage power supply of mains + DC24V standby power supply with zero switching time provide the best energy supply for the 7x24 hours of continuous work of the terminal.
- * Support the PA system remotely upgrading the terminal firmware, without the need to upgrade the terminal locally, reducing the work intensity of maintenance personnel.

Specifications

Model	T-7802U
Network interface	Standard RJ45 input
Transmission rate	1000Mbps/100Mbps
Communication protocol	TCP/IP, UDP, IGMP(multicast), IETF SIP
Audio format	Mp3, WMA, WAV
Audio mode	16-bit CD sound quality
Sampling rate	8K~48KHz
AUX input	1 group
AUX sensitivity	350mV
MIC input	1 group(microphone pole or rear headphone 3.5mm interface input is optional)
MIC sensitivity	10mV
Line out output	1 group
Line out level/impedance	1000mV/470Ω
Microphone type	Cardioid directional electret
Headphone output interface	3.5mm interface
Headphone load	32Ω
USB	Support up to 4T USB device; load <0.1A
SD	Support up to 128G/SDXC card
Total power consumption	20W
Standby power consumption	<3W
Frequency response	80Hz~16KHz -3dB/+1dB
THD	≤1%
SNR	>65dB
Short circuit input	0V/3.3V, support dry contact input
Short circuit output	Maximum 1A/30VDC dry contact output
Working voltage	~190-240V 50-60Hz(power adapter); DC24V/1.5A
Extended interface	1×RJ45 special device interface
Working temperature	5°C~40°C
Working humidity	20%~80% relative humidity, no condensation
Size	200×225×72mm (L×D×H)
Weight	1.45Kg

Rear Panel



IP Intercom Terminal
 Embedded software: Luna cloud-based terminal embedded software V2.0
T-7803



Description

The professional integrated intercom terminal is suitable for indoor and outdoor environments. It can be used for one-key alarm and one-key help intercom with the call center and the duty room.

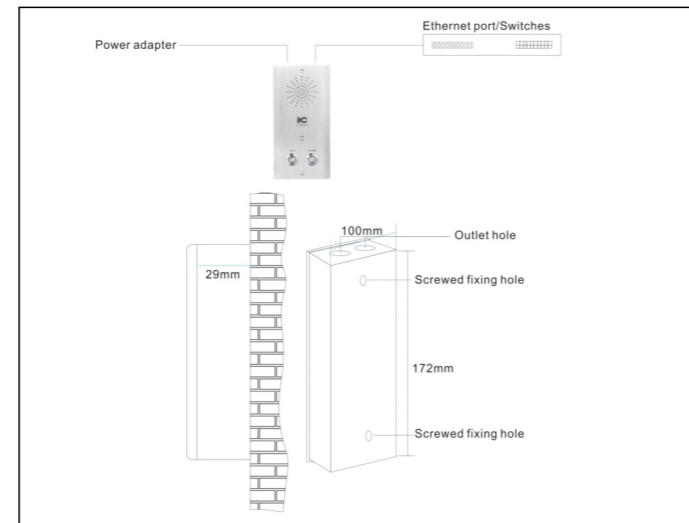
Features

- * Simple and beautiful appearance, high-grade aluminum alloy wire-drawing panel, sturdy and durable structure, embedded installation.
- * The dual-color indicator of the panel buttons visually display the working status and fault status of the terminal.
- * The Luna cloud-based server has extremely high security and excellent stability, and supports 7×24 hours of continuous work.
- * Rich network access methods, including DHCP automatic allocation access, ADSL smart dial-up access, fixed IP address access, etc.
- * One-key help intercom function can realize full-duplex microphone intercom with call center, duty room and other places.
- * User-defined key functions, including one-key help, one-key intercom, one-key conference, one-key file playback and other application functions.
- * It has multiple linkage trigger methods such as panel removal, terminal online, terminal offline, etc. It can set trigger functions such as synchronous email sending and linkage alarm with other regional terminals.
- * With the sound pressure alarm function, when the detected volume continuously exceeds the preset range of sound pressure, according to the preset program, it will automatically trigger alarm on the specified terminal, pop-up prompts on the software interface, and synchronous Email sending, etc.
- * Built-in high-sensitivity microphone, with wide pickup area and good sound reduction, can be used for environment monitoring, duty personnel assessment and other functional applications; support hands-free call and receiving broadcast functions.
- * Built-in 3W full-range high-fidelity speaker provides clear and powerful sound; can work with the 10W amplifier, and can be connected with 10W constant impedance speakers.
- * Built-in 8GByte SSD, support remote management on the server, support background download in limited network speed or automatic download during idle time, reduce the burden of the network; the media library files support offline automatic playback function.
- * Integrated 24Bit professional sound card, enabling enthusiast audio playback, and the audio stream is up to 768kpbs.
- * 1 AUX audio input, built-in digital pre-amplifier, support user-defined priority rank.
- * Built-in 1 Line out independent audio output can realize sound reinforcement with external amplifiers, and audio monitoring, etc.
- * 2 short-circuit outputs, 2 short-circuit inputs, flexible customized functions; can realize the functions of short-circuit acquisition, alarm triggering, local media library music playback, sending messages and emails, and pop-up prompts; can realize electronic lock, fire control, monitoring and other linkage applications of the third party equipment and the platform.
- * Communication protocol: TCP/IP, UDP, IGMP (multicast), IETF SIP; audio format: MP3, WMA, WAV.
- * Support short-circuit restoring the factory settings, which is convenient for system maintenance and management to the greatest extent.
- * Support viewing equipment status and managing equipment information through the system background WEB.
- * Support PA system remotely upgrading the terminal firmware, without the need to upgrade the terminal locally, reducing the work intensity of maintenance personnel.
- * The protection grade is IP55, the whole machine is made of aluminum alloy, and has the anti-removal alarm function.

Specifications

Model	T-7803
Network interface	Standard RJ45 input
Transmission rate	100Mbps
Communication protocol	TCP/IP, UDP, IGMP(multicast), IETF SIP
Audio format	Mp3, WMA, WAV
Audio mode	16-bit CD sound quality
Sampling rate	8K~48K
AUX input	1 group
AUX sensitivity	350mV
MIC input	1 group
MIC sensitivity	10mV
Line out output	1 group
Line out level/impedance	1000mV/470Ω
Total power consumption	20W
Standby power consumption	<3W
Frequency response	Panel speaker: 314Hz~3.14KHz -3dB/+1dB SPK: 80Hz~16KHz -3dB/+1dB
THD	≤1%
SNR	>65dB
Short-circuit input	0V/3.3V, support dry contact input
Short-circuit output	Maximum 1A/30VDC dry contact output
Working temperature	-20℃~60℃
Working humidity	20%~80% relative humidity, no condensation
Working voltage	~190-240V 50-60Hz(power adapter); DC24V/2A
Size	86×172×58mm
Weight	0.5Kg

Rear Panel



IP Intercom Terminal
 Embedded software: Luna cloud-based terminal embedded software V2.0
T-7803E



Description

The professional integrated intercom terminal is suitable for indoor and outdoor environments. It can be used for one-key alarm and one-key help intercom with the call center and the duty room.

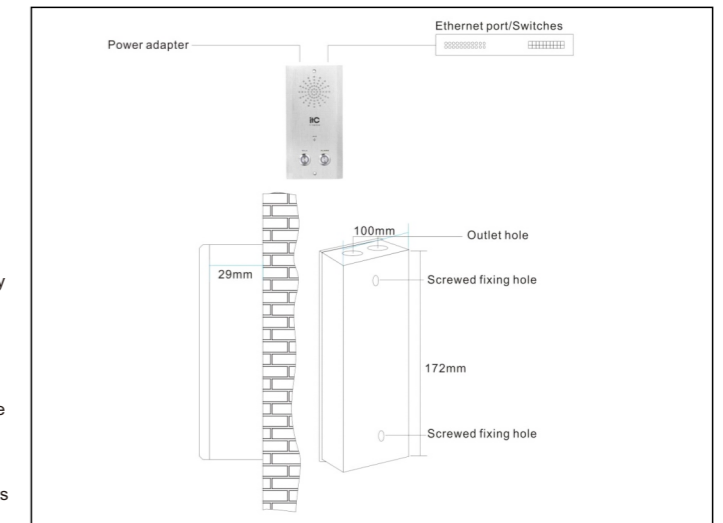
Features

- * Simple and beautiful appearance, high-grade aluminum alloy wire-drawing panel, sturdy and durable structure, embedded installation.
- * The dual-color indicator of the panel buttons visually display the working status and fault status of the terminal.
- * The Luna cloud-based server has extremely high security and excellent stability, and supports 7×24 hours of continuous work.
- * Rich network access methods, including DHCP automatic allocation access, ADSL smart dial-up access, fixed IP address access, etc.
- * Dual key alarm and help intercom function can realize full-duplex microphone intercom with call center, duty room and other places.
- * User-defined key functions, including one-key help, one-key intercom, one-key conference, one-key file playback and other application functions.
- * It has multiple linkage trigger methods such as panel removal, terminal online, terminal offline, etc. It can set trigger functions such as synchronous email sending and linkage alarm with other regional terminals.
- * With the sound pressure alarm function, when the detected volume continuously exceeds the preset range of sound pressure, according to the preset program, it will automatically trigger alarm on the specified terminal, pop-up prompts on the software interface, and synchronous Email sending, etc.
- * Built-in high-sensitivity microphone, with wide pickup area and good sound reduction, can be used for environment monitoring, duty personnel assessment and other functional applications; support hands-free call and receiving broadcast functions.
- * Built-in 3W full-range high-fidelity speaker provides clear and powerful sound; can work with the 10W amplifier, and can be connected with 10W constant impedance speakers.
- * Built-in 8GByte SSD, support remote management on the server, support background download in limited network speed or automatic download during idle time, reduce the burden of the network; the media library files support offline automatic playback function.
- * Integrated 24Bit professional sound card, enabling enthusiast audio playback, and the audio stream is up to 768kpbs.
- * 1 AUX audio input, built-in digital pre-amplifier, support user-defined priority rank.
- * Built-in 1 Line out independent audio output can realize sound reinforcement with external amplifiers, and audio monitoring, etc.
- * 2 short-circuit outputs, 2 short-circuit inputs, flexible customized functions; can realize the functions of short-circuit acquisition, alarm triggering, local media library music playback, sending messages and emails, and pop-up prompts; can realize electronic lock, fire control, monitoring and other linkage applications of the third party equipment and the platform.
- * Communication protocol: TCP/IP, UDP, IGMP (multicast), IETF SIP; audio format: MP3, WMA, WAV.
- * Support short-circuit restoring the factory settings, which is convenient for system maintenance and management to the greatest extent.
- * Support viewing equipment status and managing equipment information through the system background WEB.
- * Support PA system remotely upgrading the terminal firmware, without the need to upgrade the terminal locally, reducing the work intensity of maintenance personnel.
- * The protection grade is IP55, the whole machine is made of aluminum alloy, and has the anti-removal alarm function.

Specifications

Model	T-7803E
Network interface	Standard RJ45 input
Transmission rate	100Mbps
Communication protocol	TCP/IP, UDP, IGMP(multicast), IETF SIP
Audio format	Mp3, WMA, WAV
Audio mode	16-bit CD sound quality
Sampling rate	8K~48KHz
AUX input	1 group
AUX sensitivity	350mV
MIC input	1 group
MIC sensitivity	10mV
Line out output	1 group
Line out level/impedance	1000mV/470Ω
Total power consumption	20W
Standby power consumption	<3W
Frequency response	Panel speaker: 314Hz~3.14KHz -3dB/+1dB SPK: 80Hz~16KHz -3dB/+1dB
THD	≤1%
SNR	>65dB
Short-circuit input	0V/3.3V, support dry contact input
Short-circuit output	Maximum 1A/30VDC dry contact output
Working temperature	-20℃~60℃
Working humidity	20%~80% relative humidity, no condensation
Working voltage	~190-240V 50-60Hz(power adapter); DC24V/2A
Size	86×172×58mm
Weight	0.5Kg

Rear Panel



IP Terminal
 Embedded software: Luna cloud-based terminal embedded software V2.0
T-7805



Description

It is installed in rooms, classrooms, guest rooms and other places that need fixed-point control for program broadcast and local broadcast.

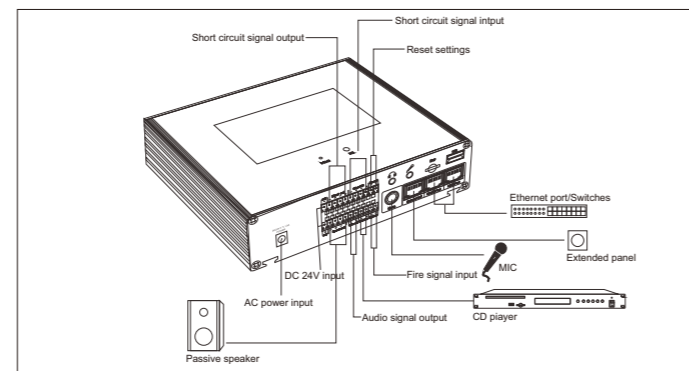
Features

- * Network decoding terminal, professional wall-mounted design, convenient installation.
- * 4.3-inch true color LCD screen, graphical interface display and infrared remote control for more flexible operations.
- * Graphical volume adjustment interface to adjust the volume of network programs, local MIC, and local AUX.
- * Real-time display of program playback, two-way intercom, timed broadcast, equipment operation, IP address, MAC address and other status information; support stopping the program playback with one key.
- * The Luna cloud-based server has high security and excellent stability, and supports 7 × 24 hours of continuous work.
- * Standard dual network interfaces support exchange extension mode and redundant backup mode; the full rate connection is up to 1000M; support cross network segment and cross router.
- * Rich network access methods, including DHCP automatic allocation access, ADSL smart dial-up access, fixed IP address access, etc.
- * Built-in two output amplifier modules with 30W (MAX) constant resistance, fine sound quality and strong power.
- * Support intelligent power saving and pre-power on management, realize system energy saving, and ensure reliable and stable operation of the controlled equipment.
- * Built-in 8GByte SSD, support remote management on the server, support background download in limited network speed or automatic download during idle time, reduce the burden of the network; the media library files support offline automatic playback function.
- * Integrated USB and Micro SD (TF) card interfaces, support up to 4T USB storage devices and 128G/SDXC card, achieve local playback of the audio files, and can broadcast on demand the contents of USB, TF card and media library on the terminals within the authority scope.
- * Integrated 24Bit professional sound card, enabling enthusiast audio playback; audio stream is up to 768kpbs.
- * 1 AUX audio input, 1 group of MIC inputs, 1 EMC emergency input, built-in digital pre-amplifier, support user-defined priority rank; 1 monitoring MIC can achieve equipment self-test, environment monitoring and personnel assessment, etc.
- * Built-in 1 Line out independent audio output, realize sound reinforcement with external amplifiers; support standard headset interface, realize audio monitoring, headset microphone sound reinforcement, etc.
- * 2 short-circuit outputs, 2 short-circuit inputs, flexible customized functions; can realize the functions of short-circuit acquisition, alarm triggering, local media library music playback, sending messages and emails, and pop-up prompts; can realize electronic lock, fire control, monitoring and other linkage applications of the third party equipment and the platform.
- * Communication protocol: TCP/IP, UDP, IGMP (multicast), IETF SIP; audio format: MP3, WMA, WAV.
- * Support short-circuit restoring the factory settings, which is convenient for system maintenance and management to the greatest extent.
- * Support the switching of multiple users, support customized user function permissions.
- * Support viewing equipment status and managing equipment information through the system background WEB.
- * Wide voltage power supply of mains + DC24V standby power supply with zero switching time provide the best energy supply for the 7×24 hours of continuous work of the terminal.
- * Support the PA system remotely upgrading the terminal firmware, without the need to upgrade the terminal locally, reducing the work intensity of maintenance personnel.
- * With sound pressure trigger function, when the detected volume continues to exceed the preset range of sound pressure, according to the preset program, the designated terminal can be automatically triggered to play local media library music, send pop-up prompts and emails, etc.

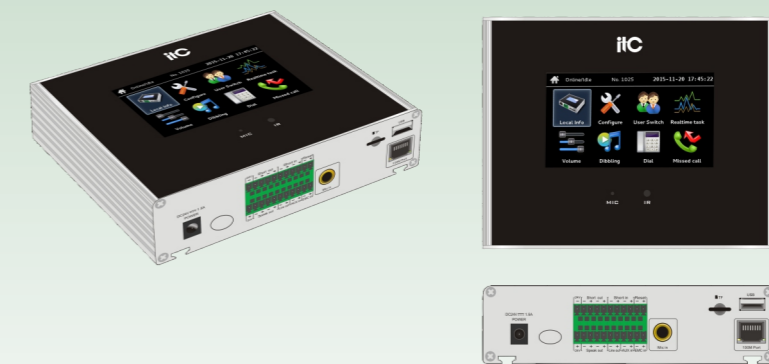
Specifications

Model	T-7805
Network interface	Standard RJ45 input
Transmission rate	1000Mbps/100Mbps
Communication protocol	TCP/IP,UDP,IGMP(multicast), IETF SIP
Audio format	MP3, WMA, WAV
Audio mode	16-bit CD sound quality
Sampling rate	8K~48KHz
AUX input	1 group
AUX sensitivity	350mV
Local Mic input	1 group (TRS interface or 3.5mm interface is optional)
Local Mic sensitivity	TRS interface 5mV, 3.5mm interface 10mV
Monitor MIC input	1 group
Monitor MIC sensitivity	10mV
Line out output	1 group
Line out level/impedance	1000mV/470Ω
Headphone output interface	3.5mm interface
Headphone load	32Ω
EMC input	1 group
EMC sensitivity	775mV
USB	Support up to 4TUSB storage device; load<0.1A
SD	Support up to 128G/SDXC card
Total power consumption	≤70W
Standby power consumption	<3W
Frequency response	80Hz~16KHz -3dB/+1dB
THD	≤1%
SNR	>65dB
Short circuit input	0V/3.3V, support dry contact input
Short circuit output	Maximum 1A/30VDC dry contact output
Extended interface	1×RJ45 dedicated device interface
Working temperature	5℃~40℃
Working humidity	20%~80% relative humidity, no condensation
Working voltage	~190-240V 50-60Hz power adapter; DC24V/2A
Size	170×134×45mm (L×D×H)
Weight	0.93Kg

Rear Panel



IP Terminal
 Embedded software: Luna cloud-based terminal embedded softwareV2.0
T-7805A



Description

It is installed in rooms, classrooms, guest rooms and other places that need fixed-point control for program broadcast and local broadcast.

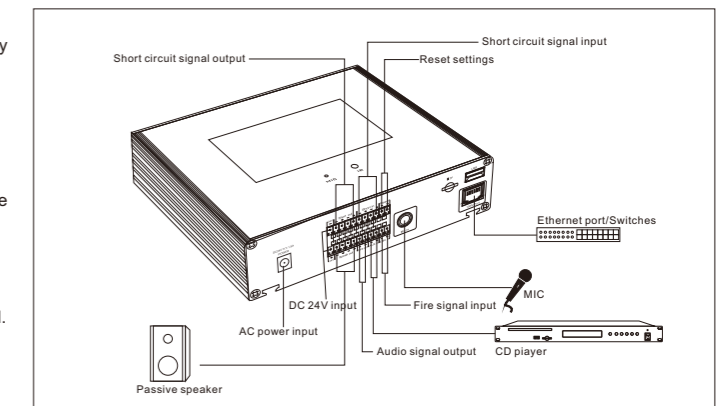
Features

- * Network decoding terminal, professional wall-mounted design, convenient installation.
- * 4.3-inch true color LCD screen, graphical interface display, and infrared remote control for more flexible operations.
- * Graphical volume adjustment interface to adjust the volume of network programs, local MIC, and local AUX.
- * Real-time display of program playback, timed broadcast, equipment operation, IP address, MAC address and other status information; support stopping the program playback with one key.
- * The Luna cloud-based server has high security and excellent stability, and supports 7 × 24 hours of continuous work.
- * Rich network access methods, including DHCP automatic allocation access, ADSL smart dial-up access, fixed IP address access, etc.
- * Built-in two output amplifier modules with 30W (MAX) constant resistance, fine sound quality and strong power.
- * Support intelligent power saving and pre-power on management, realize system energy saving, and ensure reliable and stable operation of the controlled equipment.
- * Built-in 8GByte SSD, support remote management on the server, support background download in limited network speed or automatic download during idle time, reduce the burden of the network; the media library files support offline automatic playback function.
- * Integrated USB and Micro SD (TF) card interfaces, support up to 4T USB storage devices and 128G/SDXC card, achieve local playback of the audio files, and can broadcast on demand the contents of USB, TF card and media library on the terminals within the authority scope.
- * Integrated 24Bit professional sound card, enabling enthusiast audio playback; audio stream is up to 768kpbs.
- * 1 AUX audio input, 1 group of MIC inputs, 1 EMC emergency input, built-in digital pre-amplifier, support user-defined priority rank; 1 monitoring MIC can achieve equipment self-test, environment monitoring and personnel assessment, etc.
- * Built-in 1 Line out independent audio output, realize sound reinforcement with external amplifiers; support standard headset interface, realize audio monitoring, headset microphone sound reinforcement, etc.
- * 2 short-circuit outputs, 2 short-circuit inputs, flexible customized functions; can realize the functions of short-circuit acquisition, alarm triggering, local media library music playback, sending messages and emails, and pop-up prompts; can realize electronic lock, fire control, monitoring and other linkage applications of the third party equipment and the platform.
- * Communication protocol: TCP/IP, UDP, IGMP (multicast), IETF SIP; audio format: MP3, WMA, WAV.
- * Support short-circuit restoring the factory settings, which is convenient for system maintenance and management to the greatest extent.
- * Support the switching of multiple users, support customized user function permissions.
- * Support viewing equipment status and managing equipment information through the system background WEB.
- * Wide voltage power supply of mains + DC24V standby power supply with zero switching time provide the best energy supply for the 7×24 hours of continuous work of the terminal.
- * Support the PA system remotely upgrading the terminal firmware, without the need to upgrade the terminal locally, reducing the work intensity of maintenance personnel.
- * With sound pressure trigger function, when the detected volume continues to exceed the preset range of sound pressure, according to the preset program, the designated terminal can be automatically triggered to play local media library music, send pop-up prompts and emails, etc.

Specifications

Model	T-7805A
Network interface	Standard RJ45 input
Transmission rate	100Mbps
Communication protocol	TCP/IP,UDP,IGMP(multicast), IETF SIP
Audio format	Mp3, WMA, WAV
Sampling rate	8K~48KHz
AUX input	1 group
AUX sensitivity	350mV
MIC input	1 group
MIC sensitivity	5mV
Line output	1 group
Line output level/impedance	1000mV/470Ω
Monitor MIC	1 group
Monitor MIC sensitivity	10mV
EMC input	1 group
EMC sensitivity	775mV
USB	Support up to 4T USB device; load <0.1A
SD	Support up to 128G / SDXC card
Headphone output interface	3.5mm interface
Headphone load	32Ω
Power supply	~190~240V 50-60Hz power adapter; DC24V/3A
Power consumption	≤70W
Standby power consumption	<3W
Frequency response	80Hz~16KHz -3dB/+1dB
THD	≤1%
SNR	> 65dB
Short circuit input	0V/3.3V, support dry contact input
Short circuit output	Maximum 1A/30VDC dry contact output
Working temperature	5℃~40℃
Working humidity	20%~80% relative humidity, no condensation
Size	170×134×45mm
Net weight	0.93Kg

Rear Panel



IP Terminal
 Embedded software: Luna cloud-based terminal embedded software V2.0
T-7805B



Description

It is installed in rooms, classrooms, guest rooms and other places that need fixed-point control for program broadcast and local broadcast.

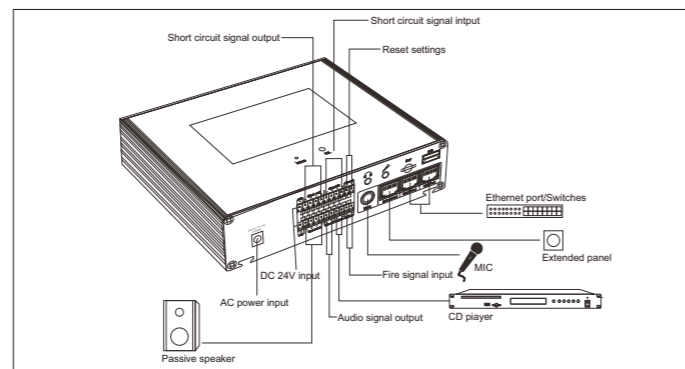
Features

- * Network decoding terminal, professional wall-mounted design, convenient installation.
- * 4.3-inch true color LCD screen, graphical interface display, and infrared remote control for more flexible operations.
- * Graphical volume adjustment interface to adjust the volume of network programs, local MIC, and local AUX.
- * Real-time display of program playback, timed broadcast, equipment operation, IP address, MAC address and other status information; support stopping the program playback with one key.
- * The Luna cloud-based server has high security and excellent stability, and supports 7 × 24 hours of continuous work.
- * Rich network access methods, including DHCP automatic allocation access, ADSL smart dial-up access, fixed IP address access, etc.
- * Built-in two output amplifier modules with 30W (MAX) constant resistance, fine sound quality and strong power.
- * Support intelligent power saving and pre-power on management, realize system energy saving, and ensure reliable and stable operation of the controlled equipment.
- * Built-in 8GByte SSD, support remote management on the server, support background download in limited network speed or automatic download during idle time, reduce the burden of the network; the media library files support offline automatic playback function.
- * Integrated USB and Micro SD (TF) card interfaces, support up to 4T USB storage devices and 128G/SDXC card, achieve local playback of the audio files, and can broadcast on demand the contents of USB, TF card and media library on the terminals within the authority scope.
- * Integrated 24Bit professional sound card, enabling enthusiast audio playback; audio stream is up to 768kpbs.
- * 1 AUX audio input, 1 group of MIC inputs, 1 EMC emergency input, built-in digital pre-amplifier, support user-defined priority rank; 1 monitoring MIC can achieve equipment self-test, environment monitoring and personnel assessment, etc.
- * Built-in constant voltage 100V signal backup module, when abnormal network or device connection occurs, it will automatically switch from digital network PA to constant voltage analog PA, and output the analog signals to the speaker.
- * Built-in 1 Line out independent audio output, realize sound reinforcement with external amplifiers; support standard headset interface, realize audio monitoring, headset microphone sound reinforcement, etc.
- * 2 short-circuit outputs, 2 short-circuit inputs, flexible customized functions; can realize the functions of short-circuit acquisition, alarm triggering, local media library music playback, sending messages and emails, and pop-up prompts; can realize electronic lock, fire control, monitoring and other linkage applications of the third party equipment and the platform.
- * Communication protocol: TCP/IP, UDP, IGMP (multicast), IETF SIP; audio format: MP3, WMA, WAV.
- * Support short-circuit restoring the factory settings, which is convenient for system maintenance and management to the greatest extent.
- * Support the switching of multiple users, support customized user function permissions.
- * Support viewing equipment status and managing equipment information through the system background WEB.
- * Wide voltage power supply of mains + DC24V standby power supply with zero switching time provide the best energy supply for the 7×24 hours of continuous work of the terminal.
- * Support the PA system remotely upgrading the terminal firmware, without the need to upgrade the terminal locally, reducing the work intensity of maintenance personnel.

Specifications

Model	T-7805B
Network interface	Standard RJ45 input
Transmission rate	100Mbps
Communication protocol	TCP/IP,UDP,IGMP(multicast), IETF SIP
Audio format	Mp3, WMA, WAV
Sampling rate	8K~48KHz
AUX input	1 group
AUX sensitivity	350mV
MIC input	1 group (TRS interface or 3.5mm interface is optional)
MIC sensitivity	TRS interface 5Mv, 3.5mm interface 10mV
Line out output	1 group
Line out level/impedance	1000mV/470Ω
Monitor MIC input	1 group
Monitor MIC sensitivity	10mV
EMC input	1 group
EMC sensitivity	775mV
USB	Support up to 4T USB device; load <0.1A
SD	support up to 128G / SDXC card
Headphone output interface	3.5mm interface
Headphone load	32Ω
Power consumption	≤70W
Standby power consumption	<3W
Frequency response	80Hz~16KHz -3dB/+1dB
THD	≤1%
SNR	>65dB
Short-circuit input	0V/3.3V, support dry contact input
Short-circuit output	Maximum 3A/30VDC dry contact output
Power supply	~190-240V 50-60Hz; DC24V/2A
Working temperature	5°C~40°C
Working humidity	20%~80% relative humidity, no condensation
Size	170×210×45mm
Net weight	2Kg

Rear Panel



IP Terminal
 Embedded software: Luna cloud-based terminal embedded software V2.0
T-7805BG



Features

- * Network decoding terminal, professional wall-mounted design, convenient installation.
- * 4.3-inch true color LCD screen, graphical interface display, touch screen control, and infrared remote control for more flexible operations.
- * Graphical volume adjustment interface to adjust the volume of network programs, local MIC, and local AUX.
- * Real-time display of program playback, two-way intercom, timed broadcast, equipment operation, IP address, MAC address and other status information; support stopping the program playback with one key.
- * Rich network access methods, including DHCP automatic allocation access, ADSL smart dial-up access, fixed IP address access, etc.
- * The Luna cloud-based server has high security and excellent stability, and supports 7 × 24 hours of continuous work.
- * Built-in two output amplifier modules with 30W (MAX) constant resistance, fine sound quality and strong power.
- * Support intelligent power saving and pre-power on management, realize system energy saving, and ensure reliable and stable operation of the controlled equipment.
- * Built-in 8GByte SSD, support remote management on the server, support background download in limited network speed or automatic download during idle time, reduce the burden of the network; the media library files support offline automatic playback function.
- * Integrated USB and Micro SD (TF) card interfaces, support up to 4T USB storage devices and 128G/SDXC card, achieve playback of the audio files, and can broadcast on demand the contents of USB, TF card and media library on the terminals within the authority scope.
- * Integrated 24Bit professional sound card, enabling enthusiast audio playback; audio stream is up to 768kpbs.
- * 1 AUX audio input, 1 group of MIC inputs, 1 EMC emergency input, built-in digital pre-amplifier, support user-defined priority rank; 1 monitor MIC can achieve equipment self-test, environment monitoring and personnel assessment, etc.
- * Built-in constant voltage 100V signal backup module, when abnormal network or device connection occurs, it will automatically switch from digital network PA to constant voltage analog PA, and output the analog signals to the speaker.
- * Built-in 1 Line out independent audio output, realize sound reinforcement with external amplifiers; support standard headset interface, realize audio monitoring, headset microphone sound reinforcement, etc.
- * 2 short-circuit outputs, 2 short-circuit inputs, flexible customized functions; can realize the functions of short-circuit acquisition, alarm triggering, local media library music playback, sending messages and emails, and pop-up prompts; can realize electronic lock, fire control, monitoring and other linkage applications of the third party equipment and the platform.
- * Communication protocol: TCP/IP, UDP, IGMP (multicast), IETF SIP; audio format: MP3, WMA, WAV.
- * Support short-circuit restoring the factory settings, which is convenient for system maintenance and management to the greatest extent.
- * Support the switching of multiple users, support customized user function permissions.
- * Support viewing equipment status and managing equipment information through the system background WEB.
- * Wide voltage power supply of mains + 24V standby power supply with zero switching time provide the best energy supply for the 7×24 hours of continuous work of the terminal.
- * Support the PA system remotely upgrading the terminal firmware, without the need to upgrade the terminal locally, reducing the work intensity of maintenance personnel.
- * Built-in 2.4G wireless audio module, transmission rate: 2.40MHz-2.53MHz, high fidelity, good anti-interference, 64K @16bit×2, HDCCD sound effect, sound delay <0.5ms, response frequency: 80Hz-16KHz.
- * It is equipped with a headset microphone; the pairing connection distance of the controller and the microphone is ≤ 3 meters, and the connection time is ≤ 3 seconds.
- * It automatically starts the pairing connection as soon as the device is turned on. After the pairing is done, there will be a prompt tone and indicator light, and it will automatically enter the receiving state.
- * Realize encrypted transmission, the receiver supports automatic frequency sweep function to easily avoid interference.
- * 2.4G microphone supports volume adjustment function.
- * The microphone supports charging function, and supports working while charging; it adopts Micro USB port for charging, and supports universal mobile phone charger.
- * The frequency range (power) can be set freely, and the effective distance can be up to 10 meters.

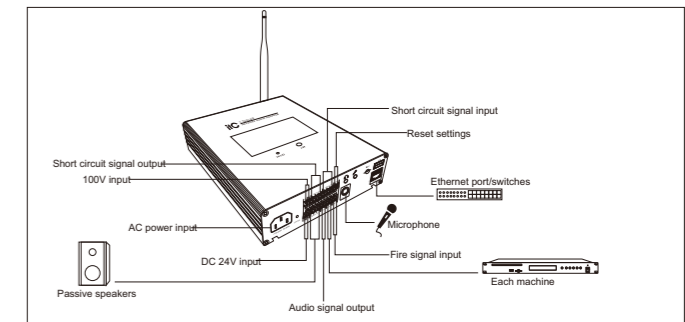
Description

It is installed in rooms, classrooms, guest rooms and other places that need fixed-point control for program broadcast and local broadcast.

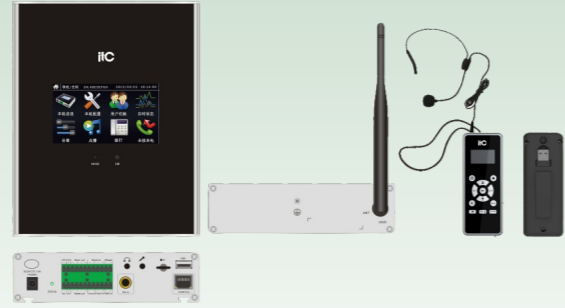
Specifications

Model	T-7805BG
Network interface	Standard RJ45 input
Transmission rate	100Mbps
Communication protocol	TCP/IP, UDP, IGMP(multicast), IETF SIP
Audio format	Mp3, WMA, WAV
Audio mode	16-bit CD sound quality
Sampling rate	8K~48KHz
AUX input	1 group
AUX sensitivity	350mV
MIC input	1 group (TRS interface or 3.5mm interface is optional)
MIC sensitivity	TRS interface 5Mv, 3.5mm interface 10mV
Monitor MIC input	1 group
Monitor MIC sensitivity	10mV
Line out output	1 group
Line out level/impedance	1000mV/470Ω
EMC input	1 group
EMC sensitivity	775mV
USB	Support up to 4T USB device; load <0.1A
SD	Support up to 128G/SDXC card
Headphone output interface	3.5mm interface
Headphone load	32Ω
Power consumption	≤70W
Standby power consumption	<3W
Frequency response	80Hz~16KHz -3dB/+1dB
THD	≤1%
SNR	>65dB
Short-circuit input	0V/3.3, support dry contact input
Short-circuit output	Maximum 3A/30VDC dry contact output
Working temperature	5°C~40°C
Working humidity	20%~80% relative humidity, no condensation
Power supply	~190-240V 50-60Hz; DC24V/2A
Size	170×210×45mm
Net weight	2Kg

Rear Panel



IP Terminal
 Embedded software: Luna cloud-based terminal embedded software V2.0
T-7805BM



Features

- * Network decoding terminal, professional wall-mounted design, convenient installation.
- * 4.3-inch true color LCD screen, graphical interface display, touch screen control, and infrared remote control for more flexible operations.
- * Graphical volume adjustment interface to adjust the volume of network programs, local MIC, and local AUX.
- * Real-time display of program playback, two-way intercom, timed broadcast, equipment operation, IP address, MAC address and other status information; support stopping the program playback with one key.
- * The Luna cloud-based server has high security and excellent stability, and supports 7 × 24 hours of continuous work.
- * Rich network access methods, including DHCP automatic allocation access, ADSL smart dial-up access, fixed IP address access, etc.
- * Built-in two output amplifier modules with 30W (MAX) constant resistance, fine sound quality and strong power.
- * Support intelligent power saving and pre-power on management, realize system energy saving, and ensure reliable and stable operation of the controlled equipment.
- * Built-in 8GByte SSD, support remote management on the server, support background download in limited network speed or automatic download during idle time, reduce the burden of the network; the media library files support offline automatic playback function.
- * Integrated USB and Micro SD (TF) card interfaces, support up to 4T USB storage devices and 128G/SDXC card, achieve playback of the audio files, and can broadcast on demand the contents of USB, TF card and media library on the terminals within the authority scope.
- * Integrated 24Bit professional sound card, enabling enthusiast audio playback; audio stream is up to 768kbps.
- * 1 AUX audio input, 1 group of MIC inputs, 1 EMC emergency input, built-in digital pre-amplifier, support user-defined priority rank; 1 monitor MIC can achieve equipment self-test, environment monitoring and personnel assessment, etc.
- * Built-in constant voltage 100V signal backup module, when abnormal network or device connection occurs, it will automatically switch from digital network PA to constant voltage analog PA, and output the analog signals to the speaker.
- * Built-in 1 Line out independent audio output, realize sound reinforcement with external amplifiers; support standard headset interface, realize audio monitoring, headset microphone sound reinforcement, etc.
- * 2 short-circuit outputs, 2 short-circuit inputs, flexible customized functions; can realize the functions of short-circuit acquisition, alarm triggering, local media library music playback, sending messages and emails, and pop-up prompts; can realize electronic lock, fire control, monitoring and other linkage applications of the third party equipment and the platform.
- * Communication protocol: TCP/IP, UDP, IGMP (multicast), IETF SIP; audio format: MP3, WMA, WAV.
- * Support short-circuit restoring the factory settings, which is convenient for system maintenance and management to the greatest extent.
- * Support the switching of multiple users, support customized user function permissions.
- * Support viewing equipment status and managing equipment information through the system background WEB.
- * Wide voltage power supply of mains + 24V standby power supply with zero switching time provide the best energy supply for the 7×24 hours of continuous work of the terminal.
- * Support the PA system remotely upgrading the terminal firmware, without the need to upgrade the terminal locally, reducing the work intensity of maintenance personnel.
- * Built-in 2.4G wireless audio module, transmission rate: 2.40MHz-2.53MHz, high fidelity, good anti-interference, 64K @16bit×2, HDCD sound effect, sound delay <0.5ms, response frequency: 80Hz-16KHz.
- * It is equipped with a multi-function hand-held microphone; the pairing connection distance of the controller and the microphone is ≤ 3 meters, and the connection time is ≤ 3 seconds.
- * It automatically starts the pairing connection as soon as the device is turned on. After the pairing is done, there will be a prompt tone and indicator light, and it will automatically enter the receiving state.
- * Realize encrypted transmission, the receiver supports automatic frequency sweep function to easily avoid interference.
- * 2.4G microphone supports volume adjustment function; built-in microphone reverberation function; it has a laser pointer and supports PPT page turning function.
- * The microphone supports charging function, and supports working while charging; it adopts Micro USB port for charging, and supports universal mobile phone charger.
- * Built-in MP3 player function, 8GTF memory card, and recording function.
- * The frequency range (power) can be set freely, and the effective distance can be up to 10 meters.

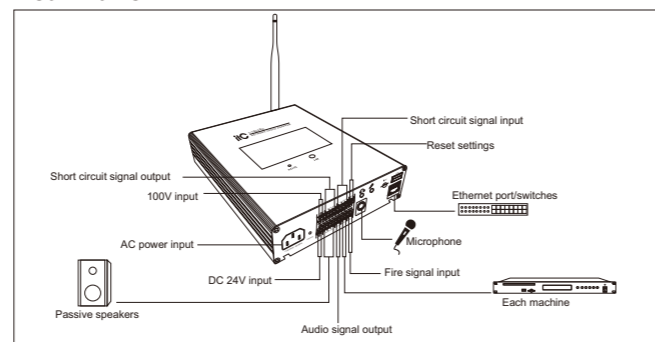
Description

It is installed in rooms, classrooms, guest rooms and other places that need fixed-point control for program broadcast and local broadcast.

Specifications

Model	T-7805BM
Network interface	Standard RJ45 input
Transmission rate	100Mbps
Communication protocol	TCP/IP, UDP, IGMP(multicast), IETF SIP
Audio format	Mp3, WMA, WAV
Audio mode	16-bit CD sound quality
Sampling rate	8K~48KHz
AUX input	1 group
AUX sensitivity	350mV
MIC input	1 group (TRS interface or 3.5mm interface is optional)
MIC sensitivity	TRS interface 5mV, 3.5mm interface 10mV
Monitor MIC input	1 group
Monitor MIC sensitivity	10mV
Line out output	1 group
Line out level/impedance	1000mV/470Ω
EMC input	1 group
EMC sensitivity	775mV
USB	Support up to 4T USB device; load <0.1A
SD	Support up to 128G/SDXC card
Headphone output interface	3.5mm interface
Headphone load	32Ω
Power consumption	≤70W
Standby power consumption	<3W
Frequency response	80Hz~16KHz -3dB/+1dB
THD	≤1%
SNR	>65dB
Short-circuit input	0V/3.3V, support dry contact input
Short-circuit output	Maximum 3A/30VDC dry contact output
Power supply	~190-240V 50-60Hz; DC24V/2A
Working temperature	5°C~40°C
Working humidity	20%~80% relative humidity, no condensation
Size	170×210×45mm
Weight	2Kg

Rear Panel



IP Network Speaker
 Embedded software: Luna cloud-based terminal embedded software V2.0
T-7807



Description

The professional integrated wall-mounted network audio decoding speaker consists of built-in network decoding modules, digital constant resistance amplifiers and high-fidelity speakers. It is installed in rooms, classrooms, guest rooms and other places that need fixed-point control for program broadcast and local broadcast.

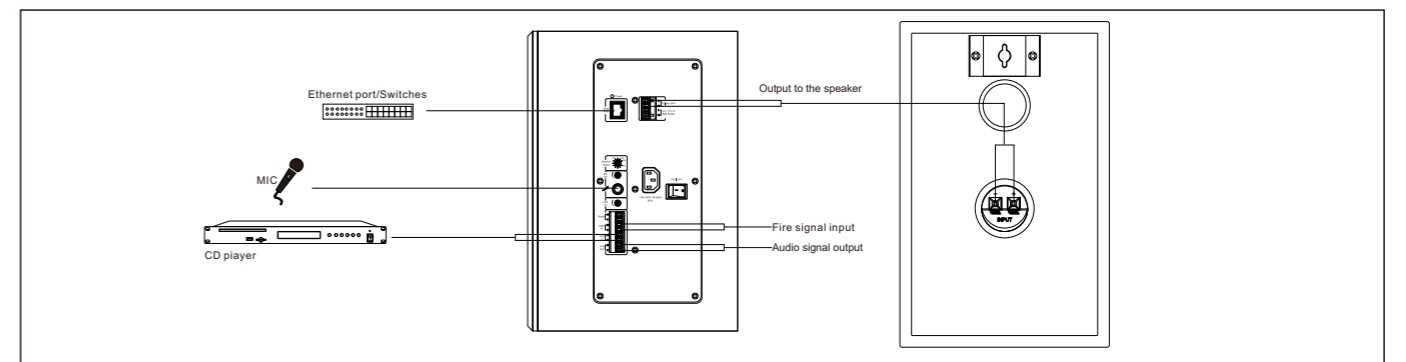
Feature

- * Integrated wall-mounted design, exquisite craft and beautiful appearance.
- * The Luna cloud-based server has high security and excellent stability, and supports 7 × 24 hours of continuous work.
- * Built-in LED screen supports the display of system time, and real-time display of server time.
- * Rich network access methods, including DHCP automatic allocation access, ADSL smart dial-up access, fixed IP address access, etc.
- * It has built-in 2 × 60W (MAX) amplifier module to drive the built-in high-fidelity speaker, providing fine sound quality and stable operation of the controlled equipment.
- * Support intelligent power saving and pre-power on management, realize system energy saving, and ensure reliable and stable operation of the controlled equipment.
- * Built-in 8GByte SSD, support remote management on the server, support background download in limited network speed or automatic download during idle time, reduce the burden of the network; the media library files support offline automatic playback function.
- * Integrated 24Bit professional sound card, enabling enthusiast audio playback; audio stream is up to 768kbps.
- * 1 AUX audio input, 1 MIC input, 1 EMC emergency input, built-in digital pre-amplifier, support user-defined priority rank.
- * Built-in 1 Line out independent audio output, realize sound reinforcement with external amplifiers.
- * Communication protocol: TCP/IP, UDP, IGMP (multicast), IETF SIP; audio format: MP3, WMA, WAV.
- * Support short-circuit restoring the factory settings, which is convenient for system maintenance and management to the greatest extent.
- * Support viewing equipment status and managing equipment information through the system background WEB.
- * Wide voltage power supply of mains + DC24V standby power supply with zero switching time provide the best energy supply for the 7×24 hours of continuous work of the terminal.
- * Support the PA system remotely upgrading the terminal firmware, without the need to upgrade the terminal locally, reducing the work intensity of maintenance personnel.

Specifications

Model	T-7807
Network interface	Standard RJ45 input
Transmission rate	100Mbps
Communication protocol	TCP/IP, UDP, IGMP(multicast) IETF SIP
Audio format	Mp3, WMA, WAV
Audio mode	16-bit CD sound quality
Sampling rate	8K~48KHz
AUX input	1 group
AUX sensitivity	350mV
MIC input	1 group
MIC sensitivity	5mV
EMC input	1 group
EMC sensitivity	775mV
Line out output	1 group
Line out level/impedance	1000mV/470Ω
Power consumption	130W
Standby power consumption	<3W
Frequency response	Line out: 80Hz~16KHz -3dB/+1dB. SPK OUT: 80Hz~16KHz -3dB/+1dB
THD	≤1%
SNR	>65dB
Power supply	~190-240V 50-60Hz
Protection circuit	DC output, overload, over temperature, short circuit protection
Working temperature	5°C~40°C
Working humidity	20%~80% relative humidity, no condensation
Size	215×200×300mm (L×V×H)
Weight	7.5Kg

Rear Panel



IP Network Speaker
 Embedded software: Luna cloud-based terminal embedded software V2.0
T-7807B



Description

The professional integrated wall-mounted network audio decoding speaker consists of built-in network decoding modules, digital 2-channel constant resistance amplifiers and high-fidelity speakers. It is installed in rooms, classrooms, guest rooms and other places that need fixed-point control.

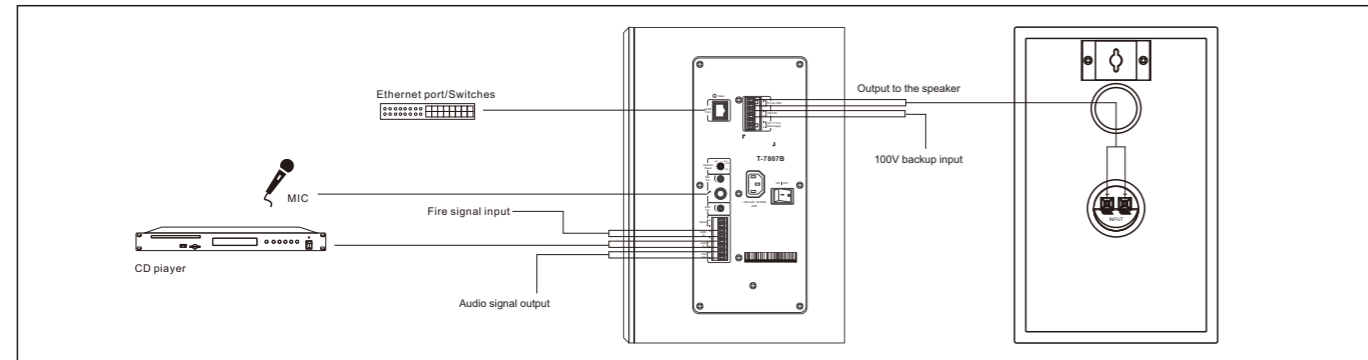
Feature

- * Integrated wall-mounted design, exquisite craft and beautiful appearance.
- * The Luna cloud-based server has high security and excellent stability, and supports 7 × 24 hours of continuous work.
- * Built-in LED screen supports the display of system time, and real-time display of server time.
- * Rich network access methods, including DHCP automatic allocation access, ADSL smart dial-up access, fixed IP address access, etc.
- * It has built-in 2 × 60W (MAX) amplifier module to drive the built-in high-fidelity speaker, providing fine sound quality and strong power.
- * Support intelligent power saving and pre-power on management, realize system energy saving, and ensure reliable and stable operation of the controlled equipment.
- * Built-in 8GByte SSD, support remote management on the server, support background download in limited network speed or automatic download during idle time, reduce the burden of the network; the media library files support offline automatic playback function.
- * Integrated 24Bit professional sound card, enabling enthusiast audio playback; audio stream is up to 768kpbs.
- * Built-in constant voltage 100V signal backup module, when abnormal network or device connection occurs, it will automatically switch from digital network PA to constant voltage analog PA, and output the analog signals to the speaker.
- * 1 AUX audio input, 1 MIC input, 1 EMC emergency input, built-in digital pre-amplifier, support user-defined priority rank.
- * Built-in 1 Line out independent audio output, realize sound reinforcement with external amplifiers.
- * Communication protocol: TCP/IP, UDP, IGMP (multicast), IETF SIP; audio format: MP3, WMA, WAV.
- * Support short-circuit restoring the factory settings, which is convenient for system maintenance and management to the greatest extent.
- * Support viewing equipment status and managing equipment information through the system background WEB.
- * Wide voltage power supply of mains + 24V standby power supply with zero switching time provide the best energy supply for the 7×24 hours of continuous work of the terminal.
- * Support the PA system remotely upgrading the terminal firmware, without the need to upgrade the terminal locally, reducing the work intensity of maintenance personnel.

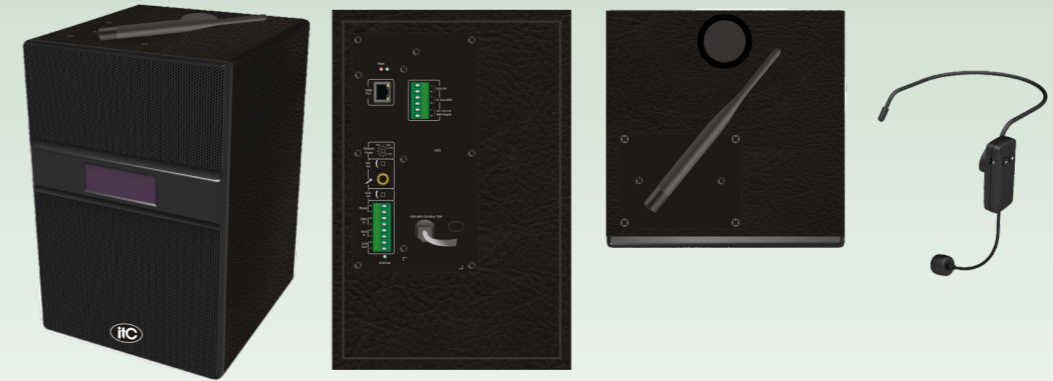
Specifications

Model	T-7807B
Network interface	Standard RJ45 input
Transmission rate	100Mbps
Communication protocol	TCP/IP, UDP, IGMP(multicast), IETF SIP
Audio format	Mp3, WMA, WAV
Audio mode	16-bit CD sound quality
Sampling rate	8K~48KHz
AUX input	1 group
AUX sensitivity	350mV
EMC input	1 group
EMC sensitivity	775mV
MIC input	1 group
MIC sensitivity	5mV
Line out output	1 group
Line out level/impedance	1000mV/470Ω
Power consumption	130W
Standby power consumption	<3W
Frequency response	Line out: 80Hz~16KHz -3dB/+1dB SPKOUT: 80Hz~16KHz -3dB/+1dB
THD	≤1%
SNR	>65dB
Power supply	~190-240V 50-60Hz
Protection circuit	DC output, overload, high temperature, short circuit protection
Working temperature	5°C~40°C
Working humidity	20%~80% relative humidity, no condensation
Size	215×200×300mm (L×W×H)
Net weight	7.5Kg

Rear Panel



IP Network Speaker
 Embedded software: Luna cloud-based terminal embedded software V2.0
T-7807BG



Description

The professional integrated wall-mounted network audio decoding speaker consists of built-in network decoding modules, digital 2-channel constant resistance amplifiers and high-fidelity speakers. It is installed in rooms, multimedia classrooms, guest rooms and other places that need fixed-point control.

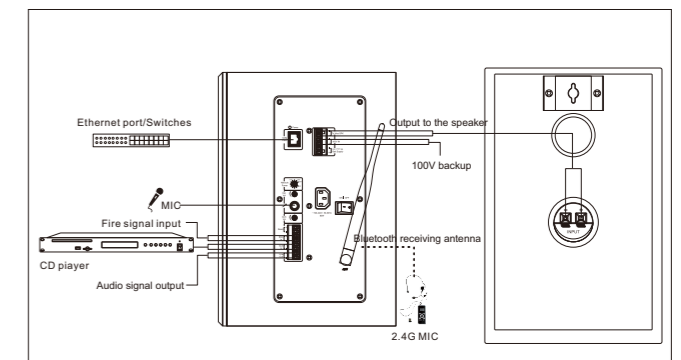
Feature

- * Integrated wall-mounted design, exquisite craft and beautiful appearance.
- * The Luna cloud-based server has high security and excellent stability, and supports 7 × 24 hours of continuous work.
- * Built-in LED screen supports the display of system time, and real-time display of server time.
- * Rich network access methods, including DHCP automatic allocation access, ADSL smart dial-up access, fixed IP address access, etc.
- * It has built-in 2 × 60W (MAX) amplifier module to drive the built-in high-fidelity speaker, providing fine sound quality and strong power.
- * Support intelligent power saving and pre-power on management, realize system energy saving, and ensure reliable and stable operation of the controlled equipment.
- * Built-in 8GByte SSD, support remote management on the server, support background download in limited network speed or automatic download during idle time, reduce the burden of the network; the media library files support offline automatic playback function.
- * Integrated 24Bit professional sound card, enabling enthusiast audio playback; audio stream is up to 768kpbs.
- * Built-in constant voltage 100V signal backup module, when abnormal network or device connection occurs, it will automatically switch from digital network PA to constant voltage analog PA, and output the analog signals to the speaker.
- * 1 AUX audio input, 1 MIC input, 1 EMC emergency input, built-in digital pre-amplifier, support user-defined priority rank.
- * Built-in 1 Line out independent audio output, realize sound reinforcement with external amplifiers.
- * Communication protocol: TCP/IP, UDP, IGMP (multicast), IETF SIP; audio format: MP3, WMA, WAV.
- * Support short-circuit restoring the factory settings, which is convenient for system maintenance and management to the greatest extent.
- * Support viewing equipment status and managing equipment information through the system background WEB.
- * Wide voltage power supply of mains + DC24V standby power supply with zero switching time provide the best energy supply for the 7×24 hours of continuous work of the terminal.
- * Support the PA system remotely upgrading the terminal firmware, without the need to upgrade the terminal locally, reducing the work intensity of maintenance personnel.
- * Built-in 2.4G wireless audio module, transmission rate: 2.40MHz-2.53MHz, high fidelity, good anti-interference, 64K @16bit×2, HDCD sound effect, sound delay <0.5ms, response frequency: 80Hz-16KHz.
- * It is equipped with a headset microphone; the pairing connection distance of the controller and the microphone is ≤ 3 meters, and the connection time is ≤ 3 seconds.
- * It automatically starts the pairing connection as soon as the device is turned on. After the pairing is done, there will be a prompt tone and indicator light, and it will automatically enter the receiving state.
- * Realize encrypted transmission, the receiver supports automatic frequency sweep function to easily avoid interference.
- * The 2.4G microphone supports volume adjustment function.
- * The microphone supports charging function, and supports working while charging; it adopts MicroUSB port for charging, and supports universal mobile phone charger.
- * The frequency range (power) can be set freely, and the effective distance can be up to 10 meters.

Specifications

Model	T-7807BG
Network interface	Standard RJ45 input
Transmission rate	100Mbps
Communication protocol	TCP/IP, UDP, IGMP(multicast), IETF SIP
Audio format	Mp3, WMA, WAV
Audio mode	16-bit CD sound quality
Sampling rate	8K~48KHz
AUX input	1 group
AUX sensitivity	350mV
EMC input	1 group
EMC sensitivity	775mV
MIC input	1 group
MIC sensitivity	5mV
Line out output	1 group
Line out level/impedance	1000mV/470Ω
Power consumption	130W
Standby power consumption	<3W
Frequency response	Line out: 80Hz~16KHz -3dB/+1dB SPK OUT: 80Hz~16KHz -3dB/+1dB
THD	≤1%
SNR	>65dB
Power supply	~190-240V 50-60Hz
Protection circuit	DC output, overload, over temperature, short circuit protection
Working temperature	5°C~40°C
Working humidity	20%~80% relative humidity, no condensation
Size	215×200×300mm(L×W×H)
Weight	8Kg

Rear Panel



IP Network Speaker
 Embedded software: Luna cloud-based terminal embedded software V2.0
T-7807BM



Description

The professional integrated wall-mounted network audio decoding speaker consists of built-in network decoding modules, digital 2-channel constant resistance amplifiers and high-fidelity speakers. It is installed in rooms, multimedia classrooms, guest rooms and other places that need fixed-point control.

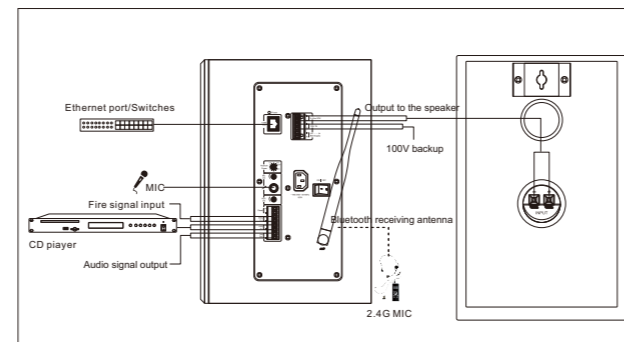
Feature

- * Integrated wall-mounted design, exquisite craft and beautiful appearance.
- * The Luna cloud-based server has high security and excellent stability, and supports 7 × 24 hours of continuous work.
- * Built-in LED screen supports the display of system time, and real-time display of server time.
- * Rich network access methods, including DHCP automatic allocation access, ADSL smart dial-up access, fixed IP address access, etc.
- * It has built-in 2 × 60W (MAX) amplifier module to drive the built-in high-fidelity speaker, providing fine sound quality and strong power.
- * Support intelligent power saving and pre-power on management, realize system energy saving, and ensure reliable and stable operation of the controlled equipment.
- * Built-in 8GByte SSD, support remote management on the server, support background download in limited network speed or automatic download during idle time, reduce the burden of the network; the media library files support offline automatic playback function.
- * Integrated 24Bit professional sound card, enabling enthusiast audio playback; audio stream is up to 768kpbs.
- * Built-in constant voltage 100V signal backup module, when abnormal network or device connection occurs, it will automatically switch from digital network PA to constant voltage analog PA, and output the analog signals to the speaker.
- * 1 AUX audio input, 1 MIC input, 1 EMC emergency input, built-in digital pre-amplifier, support user-defined priority rank.
- * Built-in 1 Line out independent audio output, realize sound reinforcement with external amplifiers.
- * Communication protocol: TCP/IP, UDP, IGMP (multicast), IETF SIP; audio format: MP3, WMA, WAV.
- * Support short-circuit restoring the factory settings, which is convenient for system maintenance and management to the greatest extent.
- * Support viewing equipment status and managing equipment information through the system background WEB.
- * Wide voltage power supply of mains + DC24V standby power supply with zero switching time provide the best energy supply for the 7×24 hours of continuous work of the terminal.
- * Support the PA system remotely upgrading the terminal firmware, without the need to upgrade the terminal locally, reducing the work intensity of maintenance personnel.
- * Built-in 2.4G wireless audio module, transmission rate: 2.40MHz-2.53MHz, high fidelity, good anti-interference, 64K @16bit×2, HDCD sound effect, sound delay <0.5ms, response frequency: 80Hz-16KHz.
- * It is equipped with a multi-function hand-held MP3 microphone; the pairing connection distance of the controller and the microphone is ≤ 3 meters, and the connection time is ≤ 3 seconds.
- * It automatically starts the pairing connection as soon as the device is turned on. After the pairing is done, there will be a prompt tone and indicator light, and it will automatically enter the receiving state.
- * Realize encrypted transmission, the receiver supports automatic frequency sweep function to easily avoid interference.
- * The 2.4G microphone supports volume adjustment function; it has built-in microphone reverberation function, and a laser pointer that supports PPT page turning function.
- * The microphone supports charging function, and supports working while charging; it adopts MicroUSB port for charging, and supports universal mobile phone charger.
- * Built-in MP3 player function, 8GTF memory card, and recording function.
- * The frequency range (power) can be set freely, and the effective distance can be up to 10 meters.

Specifications

Model	T-7807BM
Network interface	Standard RJ45 input
Transmission rate	100Mbps
Communication protocol	TCP/IP,UDP,IGMP(multicast), IETF SIP
Audio format	Mp3, WMA, WAV
Audio mode	16-bit CD sound quality
Sampling rate	8K~48KHz
AUX input	1 group
AUX sensitivity	350mV
EMC input	1 group
EMC sensitivity	775mV
MIC input	1 group
MIC sensitivity	5mV
Line out output	1 group
Line out level/impedance	1000mV/470Ω
Power consumption	130W
Standby power consumption	<3W
Frequency response	Line out: 80Hz~16KHz -3dB/+1dB SPK OUT: 80Hz~16KHz -3dB/+1dB
THD	≤1%
SNR	>65dB
Power supply	~190-240V 50-60Hz
Protection circuit	DC output, overload, over temperature, short circuit protection
Working temperature	5°C~40°C
Working humidity	20%~80% relative humidity, no condensation
Size	215×200×300mm (L×W×H)
Net weight	8Kg

Rear Panel



IP Fire Alarm Collector
 Embedded software: Luna cloud-based terminal embedded software V2.0
T-7823



Description

It is installed in the fire control room. It can receive the short circuit triggering signal of the fire protection system to realize the linkage emergency PA of the fire alarm.

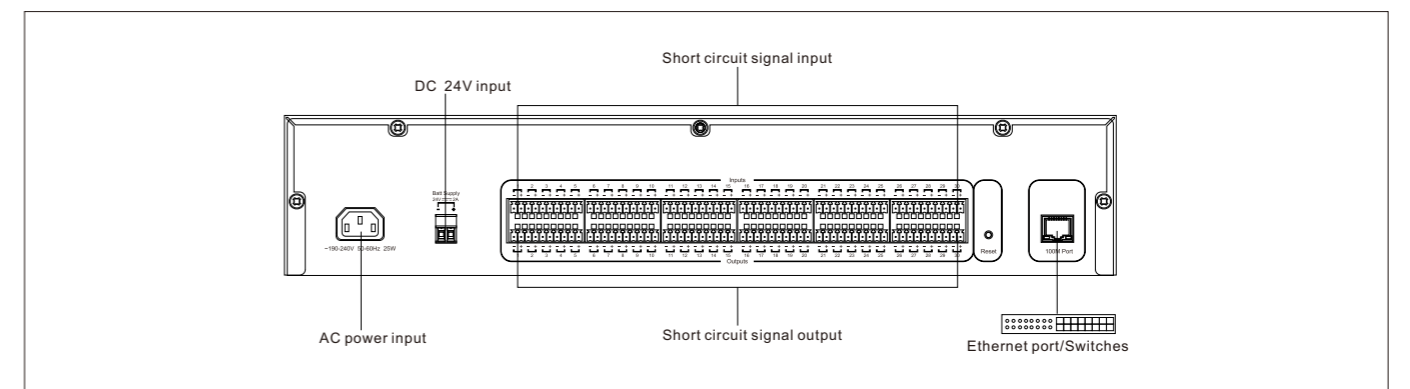
Feature

- * Standard 19-inch rack-mount design, 2U aluminum industrial panel.
- * The Luna cloud-based server has high security and excellent stability, and supports 7 × 24 hours of continuous work.
- * Rich network access methods, including DHCP automatic allocation access, ADSL smart dial-up access, fixed IP address access, etc.
- * With 30-channel fire alarm short-circuit signal input interfaces, it supports unlimited extensions of input interfaces; it can realize short-circuit acquisition, alarm triggering, local media library music playback, sending messages and emails, etc.
- * 30 short-circuit output interfaces can better realize real-time linkage with other related equipment.
- * Support one key restoring the factory settings, which is convenient for system maintenance and management to the greatest extent.
- * Support viewing equipment status and managing equipment information through the system background WEB.
- * Wide voltage power supply of mains + DC24V standby power supply with zero switching time provide the best energy supply for the 7×24 hours of continuous work of the terminal.
- * Support the PA system remotely upgrading the terminal firmware, without the need to upgrade the terminal locally, reducing the work intensity of maintenance personnel.

Specifications

Model	T-7823
Network interface	Standard RJ45 input
Transmission rate	100Mbps
Communication protocol	TCP/IP, UDP, IGMP(multicast), IETF SIP
Short-circuit input channel	30
Short-circuit output channel	30
Power consumption	25W
Standby power consumption	<3W
Short-circuit input	0V/3.3V, support dry contact input
Short-circuit output	Maximum 3A/30VDC dry contact output
Working temperature	5°C~40°C
Working humidity	20%~80% relative humidity, no condensation
Power supply	~190-240V 50-60Hz; DC24V/2A
Size	484×310×88mm
Weight	4.15Kg

Rear Panel



**NTP Server
T-7846**



Description

T-7846 is a professional NTP server, with built-in network decoding modules, communicates with the PA system through internet, and receives the satellite synchronous signals for time calibration.

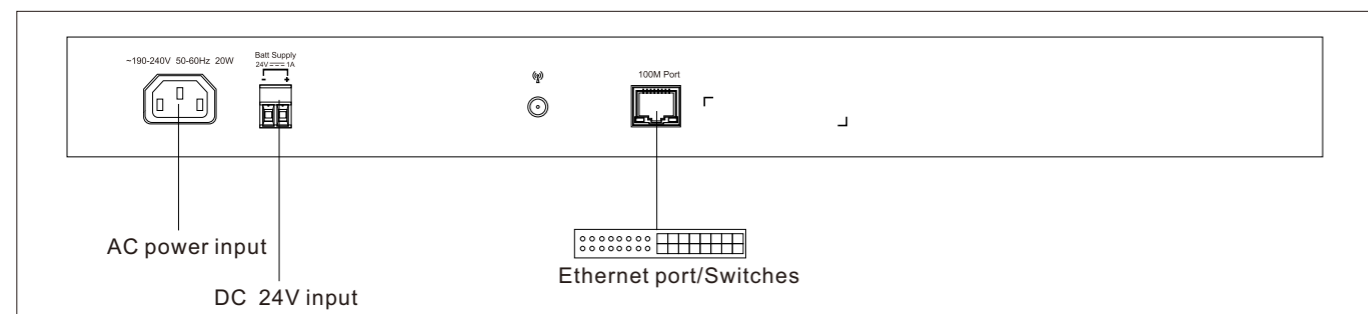
Feature

- * Standard rack-mounted design, exquisite craft, and beautiful appearance.
- * The Linux operating system has high reliability.
- * Rich network access methods, including DHCP automatic allocation access, ADSL smart dial-up access, fixed IP address access, etc.
- * Receive the satellite synchronous signals for automatic time calibration, with GMT time error less than 0.1 seconds.
- * Take the PA system as the time calibration system, ensuring the accuracy of the PA system and timed tasks.
- * The LCD scrolling screen displays the current time, current time zone, etc.
- * Support language display interface switching between Chinese and English
- * The system is equipped with two major positioning systems, Beidou Satellite Navigation System (BDS) + GPS satellite positioning system, which can realize remote switching between two different systems in server.
- * It can be set to automatically obtain IP address.
- * Support one key restoring factory settings, which is convenient for system maintenance and management to the greatest extent.
- * Support remotely upgrading the terminal firmwares, without the need to upgrade the terminal locally, reducing the work intensity of maintenance personnel.

Specifications

Model	T-7846
Network interface	Standard RJ45 input
Transmission rate	100Mbps
Communication protocol	TCP/IP, UDP, IGMP(multicast), IETF SIP
Power supply	~190-240V 50-60Hz; DC24V/1A
Power consumption	20W
Standby power consumption	<3W
Working temperature	5°C~40°C
Working humidity	20%~80% relative humidity, no condensation
Size	484×310×44mm
Net weight	2kg

Rear Panel



**Rack-mount IP Network Audio Terminal
T-7860 / T-78120 / T-78240 / T-78350 / T-78500**



T-7860/T-78120

T-78240 / T-78350 / T-78500

Description

Installed in the weak current room or control room, built in with power amplifier, it is used for audio files broadcasting and local broadcasting in halls, corridors, indoor and outdoor areas.

Features

- * Standard 19-inch rack-mounted design, full-aluminum industrial panel, 4.3-inch TFT color LCD screen, 21 industrial metal buttons, infrared receiving function for remote control.
- * Graphical volume adjustment interface to adjust the volume of network programs, local MIC, and local AUX.
- * Real-time display of status information such as program broadcast, timed broadcast, equipment operation, IP address, MAC address, and so on; support stopping the program broadcast with one button.
- * The Luna cloud-based server has high security and excellent stability, and supports 7×24 hours of continuous work.
- * Rich network access methods, including DHCP automatic allocation access, ADSL smart dial-up access, fixed IP address access, etc.
- * Built-in 8GByte SSD, support remote management on the server, support background download in limited network speed or automatic download during idle time, reduce the burden of the network; the media library files support offline automatic playback function.
- * Integrated USB and Micro SD(TF) card interfaces, support up to 4T USB storage device and 128G/SDXC card, achieve the playback of audio files, and can broadcast on demand the contents of USB, TF card and media library on terminals within authority scope.
- * Built-in 60W power output with rated resistance (4-16Ω) and rated pressure (70V/100V), strong power, free option.
- * Smart power management function: automatically cut off the power of the amplifier when no signal, and automatically start the programmed pre-power on function when entering the standby mode and the power is less than 10W.
- * Integrated 24Bit professional sound card, enabling enthusiast audio playback, and the highest audio stream is 768kpbs.
- * 1 AUX audio input, 1 group of MIC inputs, 1 EMC emergency input, built-in digital pre-amplifier; support user-defined priority rank; 1 monitor MIC to achieve equipment self-test, environment monitoring and personnel assessment, etc.
- * Built-in 1 Line out independent audio output achieves sound reinforcement with external amplifiers; support the standard headset interface for audio monitoring and headset microphone sound reinforcement, etc.
- * 2 short-circuit outputs, 2 short-circuit inputs, flexible customized functions; can realize short circuit acquisition, alarm trigger, and can realize electronic lock, fire control, monitoring and other linkage applications of the third party equipment and the platform.
- * 1 three-wire sound control overridden interface, no need for DC24V overridden power supply, unlimited number of sound controls.
- * The panel is equipped with a monitoring microphone to realize remote monitoring of the network environment, and synchronous recording and storage of monitoring audio.
- * With the sound pressure alarm function, when the detected volume continuously exceeds the preset range of sound pressure, according to the preset program, it will automatically trigger alarm on the specified terminal, pop-up prompts on the software interface, and synchronous Email sending, etc.
- * Communication protocol: TCP/IP, UDP, IGMP (multicast), IETF SIP; audio format: MP3, WMA, WAV.
- * Support short-circuit restoring the factory settings, which is convenient for system maintenance and management to the greatest extent.
- * Support multiple user switching, support customized user function permissions.
- * Support viewing equipment status and managing equipment information through system background WEB.
- * Support the PA system remotely upgrading the terminal firmware, without the need to upgrade the terminal locally, reducing the work intensity of maintenance personnel.

Specifications

Model	T-7860	T-78120	T-78240	T-78350	T-78500
Network Interface	Standard RJ45 input				
Transmission Rate	100Mbps				
Protocol	TCP / IP, UDP, IGMP (multicast), IETF SIP				
Audio Format	Mp3, WMA, WAV				
Audio Mode	16 bit CD level				
Sampling Rate	8K~48KHz				
AUX Input	1 group				
AUX Sensitivity	350mV				
EMC Input	1 group				
EMC Sensitivity	775mV				
Local MIC Input	1 group (optional f front or rear panel TRS interface or 3.5mm interface)				
Local MIC Sensitivity	TRS interface 5mV, 3.5mm interface 10mV				
Line output	1 group				
Line output level/impedance	1000mV/470Ω				
Earphone Output Connector	3.5mm interface				
Earphone load	32Ω				
Monitor MIC	1 group				
Monitor MIC Sensitivity	10mV				
USB	Maximum support 4T USB device; load <0.1A				
SD	Maximum support 128G / SDXC card				
Power Consumption	80W	160W	320W	460W	650W
Standby power consumption	<10W	<10W	<10W	<10W	<10W
Power Output	60W	120W	240W	350W	500W
Frequency Response	80Hz~16KHz -3dB/+1dB				
THD	≤1%				
SNR	>65dB				
Short -circuit Input	0V / 3.3V, support dry contact input				
Short-circuit Output	Maximum 3A/30VDC dry contact output				
Protection Circuit	DC output, overload, over temperature, short circuit protection				
Operating Temperature	5°C~40°C				
Operating Humidity	20%~80% relative humidity, non-condensation				
Working Voltage	~190-240V 50-60Hz				
Standby power consumption	<10W				
Size	484 x 327.5 x 88 mm		484 x 385 x 132 mm		
Weight	8.4Kg	9.6Kg	14.0Kg	16.5Kg	18Kg

**IP Network Column Speaker
T-7882 / T-7884**



T-7882

T-7884

Description

The column speaker has built-in digital network decoding modules. With the aluminum alloy housing, it is waterproof and rustproof, and can be installed in various PA management areas. It can be used for program broadcast and local broadcast in parks, squares, streets, scenic spots, and other outdoor places.

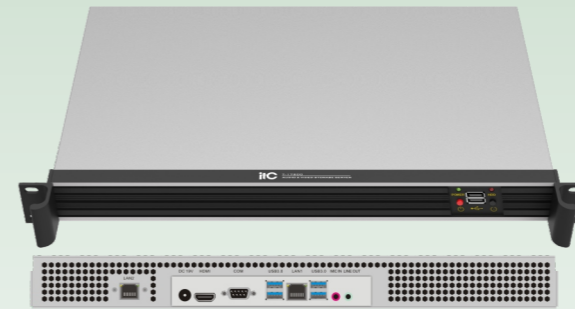
Features

- * Professional integrated structure, excellent cabinet sealing performance, fast conducted copper-plated and nickel-plated column. It meets the use and safety standards of outdoor environments and complies with IP54 protection requirements.
- * The Luna cloud-based server has high security and excellent stability, and supports 7×24 hours of continuous work.
- * Built-in 8GByte SSD, support remote management on the server, support background download in limited network speed or automatic download during idle time, reduce the burden of the network; the media library files support offline automatic playback function.
- * Rich network access methods, including DHCP automatic allocation access, ADSL smart dial-up access, fixed IP address access, etc.
- * Integrated 24Bit professional sound card, enabling enthusiast audio playback; audio stream is up to 768kpbs.
- * Built-in 1 network digital audio decoding module, support IP/TCP, UDP, IGMP (multicast) and other communication protocols, and achieve the network transmission of 16-bit CD sound quality.
- * Compatible with standard SIP protocol; can be independently connected to VOIP telephone system (mainstream IP-PBX such as Asterisk).
- * Support one button restoring the factory settings, which is convenient for system maintenance and management to the greatest extent.
- * Built-in digital amplifier modules provide fine sound quality and strong power. According to the project requirements, different power (15W/30W/45W/60W) can be optional.
- * Support the PA system remotely upgrading the terminal firmware, without the need to upgrade the terminal locally, reducing the work intensity of maintenance personnel.
- * The 24V DC power supply can be customized to meet the demands of outdoor solar battery power supply.

Specifications

Model	T-7882	T-7884
Internet interface	Standard RJ45 input	
Transmission rate	100Mbps	
Communication protocol	TCP/IP, UDP, IGMP (multicast) IETF SIP	
Audio format	MP3, WMA, WAV	
Audio mode	16-bit CD sound quality	
Sampling rate	8K~48KHz	
Frequency response	130Hz~16KHz +1dB/-3dB	
Rated power	30W	60W
THD	≤1%	
SNR	≥65dB	
Protection level	IP54	
Working temperature	-20°C~60°C	
Working humidity	20%~80% relative humidity, no condensation	
Working voltage	~220V 50Hz	
Total power consumption	≤45W	≤95W
Speaker	4"×2	4"×4
Size	150×145×574mm	150×145×814mm
Weight	5.5kg	7.5kg

**IP Network Controller
T-17800**



Description

The IP network digital broadcasting server is equipped with the Luna cloud platform voice broadcasting system software and it is the control center of the broadcasting system. It is installed in the main control room to manage the entire broadcast system in real time. B/S platform operating system architecture, support LAN and WAN transmission (cross-network segment, cross-route), can be deployed anywhere in the network, support any operating system and any browser for remote access to log in; The server is the core of the system operation, supports the operation of each audio terminal, can manage up to 300 terminal devices, and supports up to 150 sets of differentiated real-time tasks; It is responsible for audio stream transmission management and responding to audio terminal playback requests and audio full-duplex exchange, with the functions of terminal management, user management, program playback management, audio file management, recording storage, internal communication scheduling and so on; Manage program library resources to provide scheduled playback and real-time on-demand media services for all audio.

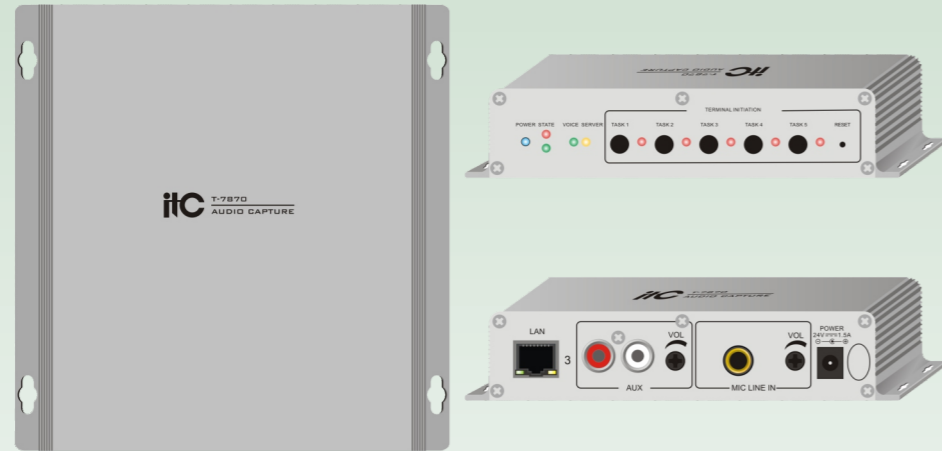
Specifications

Model	T-17800
Motherboard	ASUS H310T motherboard
Hard disk	Seagate-ST1000DM010-1TB-SATA interface; support for maximum 16T storage capacity
RAM	Memory stick Kingston-HX421S131B/4 (the capacity will continue to increase due to continuous product upgrades)
Network card	Realtek RTL8103EL, 1000M. Dual network card
CPU	CPU-Intel-I3 (Dual Core/Quad Thread)
System audio signal sensitivity	MIC IN: 280mV
System audio signal SNR	LINE OUT: 85dB
System audio signal standard output level	0dBV
System audio signal distortion	1KHz <0.5%
Input power	DC 19V
Power consumption	150W
MTBF	100,000 hours
Hardware detection	Fault/error/overload and alarm (including disk/RAID/power/fan/temperature/IO performance.)
Working temperature	0°C~40°C
Working environment humidity	20% to 80% relative humidity, no condensation
Size(LxWxH)	550×440×44 mm
weight	3.5Kg
Standard interface	Built-in 6 USB ports, 1 MIC IN port, 1 LINE OUT port; 1 HDMI port, 1 COM port
Software system platform	linux

Feature

- * The industrial-grade cabinet type 1U chassis has a stable structure, excellent electromagnetic interference resistance and radiation resistance, and meets EMC design standards.
- * Industrial-grade dedicated motherboard design, dual-core two-threaded ultra-low-power embedded industrial-grade processor, faster processing, more powerful performance, and can work continuously for a long time.
- * Built-in high-capacity 1TB-SATA interface, support enterprise-class hard disk HDD-2TB × 2.
- * As a core operating platform, the server-level system (Linux system) is open, easy to extend development, upgrade, and has excellent network support, open source, high security, strong compatibility, and protects the system from virus interference and damage.
- * Unified management of all audio terminals in the system, including paging microphones, intercom terminals, broadcast terminals and fire interface devices.
- * Support audio terminal full-duplex real-time two-way call, support one-key help, one-key broadcast, one-key monitoring, conference mode, simultaneous dialing and other call modes, support time policy and transfer policy customization settings, support call time limit hang up, mute Automatically hang up, meeting waiting time customization function.
- * The system supports up to 128 multi-party simultaneous calls to participate in the conference discussion mode.
- * Establish a program resource library, respond to the audio terminal program playback requirements, support multiple program libraries to be established at the same time, support the program library channel establishment, and the terminal can broadcast the program on the remote channel.
- * Programming timed tasks, support timing offline file playback, recording, music file playback, channel broadcast and other programming options, support programming multiple sets of timing schemes, support any optional execution terminal.
- * Support terminal partition management function, custom partition terminal, support for selecting the broadcast number and dialing function of partition number, such as conference mode, and customer service mode.
- * Support terminal broadcast, intercom, monitor, emergency fire recording, recording area, recording time can be set arbitrarily, support timing recording and time-phase recording function.
- * Supports fire-fighting broadcast, terminal disassembly, terminal online, terminal offline, sound pressure detection and other linkage trigger types, trigger tasks include short-circuit output, mail transmission, SMS transmission, recording, pop-up prompts, terminal program playback and other functions.
- * Support user-defined audio stream and network bandwidth occupancy; support up to 768Kbps stream to meet high-quality audio playback requirements, and support minimum 8Kbps stream to solve the problem of insufficient network resources.
- * Multiple management accounts and operation accounts can be established at the same time, supporting the number of management terminals, terminal function rights, account operation authority settings, and enabling and disabling user functions.
- * Support VOIP phone access.
- * Supports 9-level session priority setting, supports one-key session level dragging, and dragging takes effect immediately.
- * Support terminal custom settings for music, intercom, broadcast, fire and other digital volume and EMC, LINE, headphones, amplifier, monitor, external and other analog volume.
- * Support audio terminal external control power management, support timing open and delay off, time can be set arbitrarily.
- * Terminals such as computers, smart phones, and tablets do not need to install any user programs, log in to the system through a browser, and have a new human-computer interaction interface that supports 3D dynamic drag and drop operations and real-time data push.
- * With integrated AirPlay wireless technology, all AirPlay-enabled mobile phones and tablets can be accessed for unmatched ease of use.
- * The software supports embedded development of third-party platforms to integrate with other system platforms (such as building guest systems, surveillance video systems, etc.), and provides standard documentation and DEMO programs for HTTP interfaces for third-party development.
- * The system has a strong backup mechanism, and seamless switching can be achieved when the primary server fails, so that it can be foolproof.
- * Standard dual network interface, support for exchange expansion mode and redundant backup mode, full-speed connection up to 1000M, support cross-network segment and cross-route mode.
- * Support primary and secondary server mode applications, secondary server as a hosted application, support NTP (time) server calibration time with GPS.
- * Support the management of the broadcasting system through the mobile APP.
- * Support audio terminal intercom, broadcast, conference initiator and receiver tone settings.
- * Support remote automatic upgrade of server system and terminal firmware, support data backup import and export, support one-key recovery factory settings.
- * Support system log record, support real-time display of server running status graph.
- * Support engineering information records for easy maintenance and inspection.
- * Support administrator web log-in broadcast system to import any project plan or map, add terminal icon to the corresponding location, graphically display the status of the terminal, and can intercom or monitor the terminal, which can be output to LCD TV or large On the display device such as the screen, the monitoring personnel are given real-time monitoring of the operating state of the terminal, and is adapted to the application of a large-scale monitoring broadcast project.
- * Can manage up to 300 terminal devices and support up to 150 groups of differentiated real-time tasks.

Luna Cloud-based PA System Audio Collector
T-7870



Description

* Specially design for external analog signal collection in IP PA system, encoding analog signal to digital signal to transmit and broadcast to designated terminals.

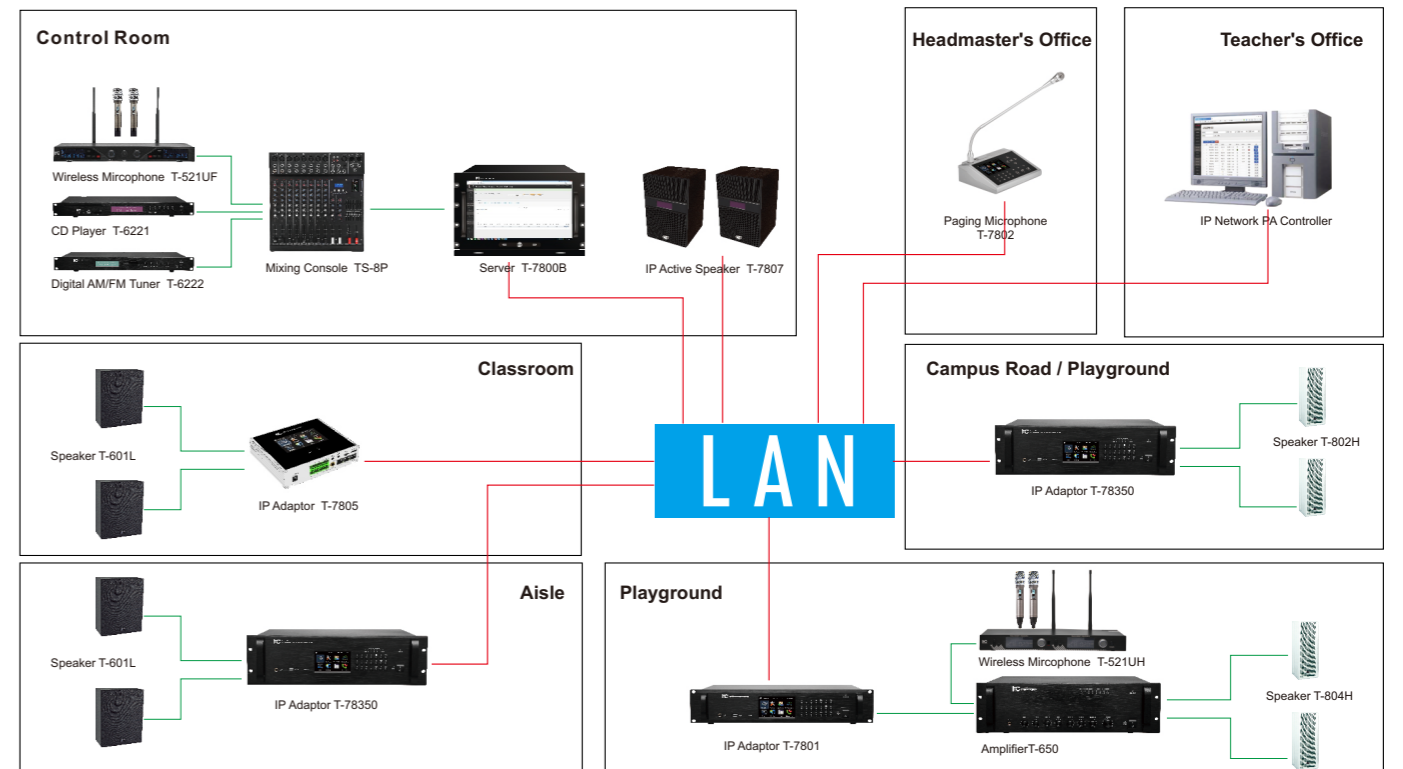
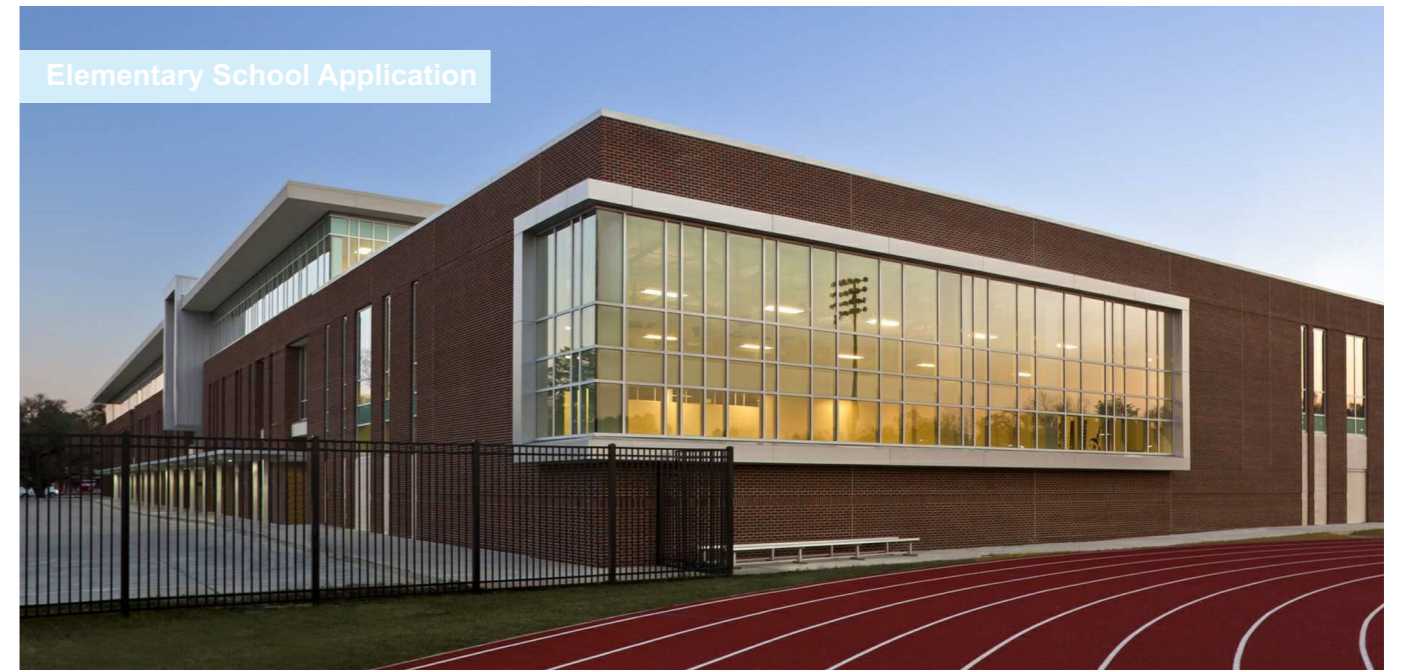
Feature

- * Full aluminum alloy housing and durable structure, small and delicate appearance.
- * Adopt embedded computer and DSP signal processing technology.
- * Built-in 1 channel audio encoding module of network hardware, support TCP/IP, UDP protocols to realize network signal transmission with 16 bit CD sound quality.
- * Built in 1 groups of RCA and 1 channel 6.35 single plug input terminals, with input volume adjustment, flexible matching with various devices with different sensitivity.
- * Support timing or temporary signal collection and broadcast task; the task priority levels can be set through the server.
- * Support the terminal to initiate 5 partition terminal collection tasks, and the zone execution terminal can be freely configured by the server.
- * Compatible with all network structure, such as router, switch, Bridge, Modem, Internet, 2G, 3G, 4G, etc.

Specifications

Model	T-7870
Network Interface	Standard RJ45 input
Transmission rate	100Mbps
Communication Protocol	TCP/IP, UDP
Audio format	MP3, PCM
Audio mode	16-bit CD sound quality
AUX input sensitivity	350mV standard RCA (unbalanced)
MIC input sensitivity	150mV standard 6.35 input interface (unbalanced)
Total power consumption	≤10W
Frequency response	80Hz~16kHz +1/-3dB
THD	≤1%
SNR	≥68dB
Working temperature	5°C~40°C
Working humidity	20%~80% relative humidity, no condensation
Input power	~190V-240V 50Hz-60Hz (power adapter); DC24V/1.5A
Size	93 x 66 x 43mm
Weight	0.5kg

Elementary School Application

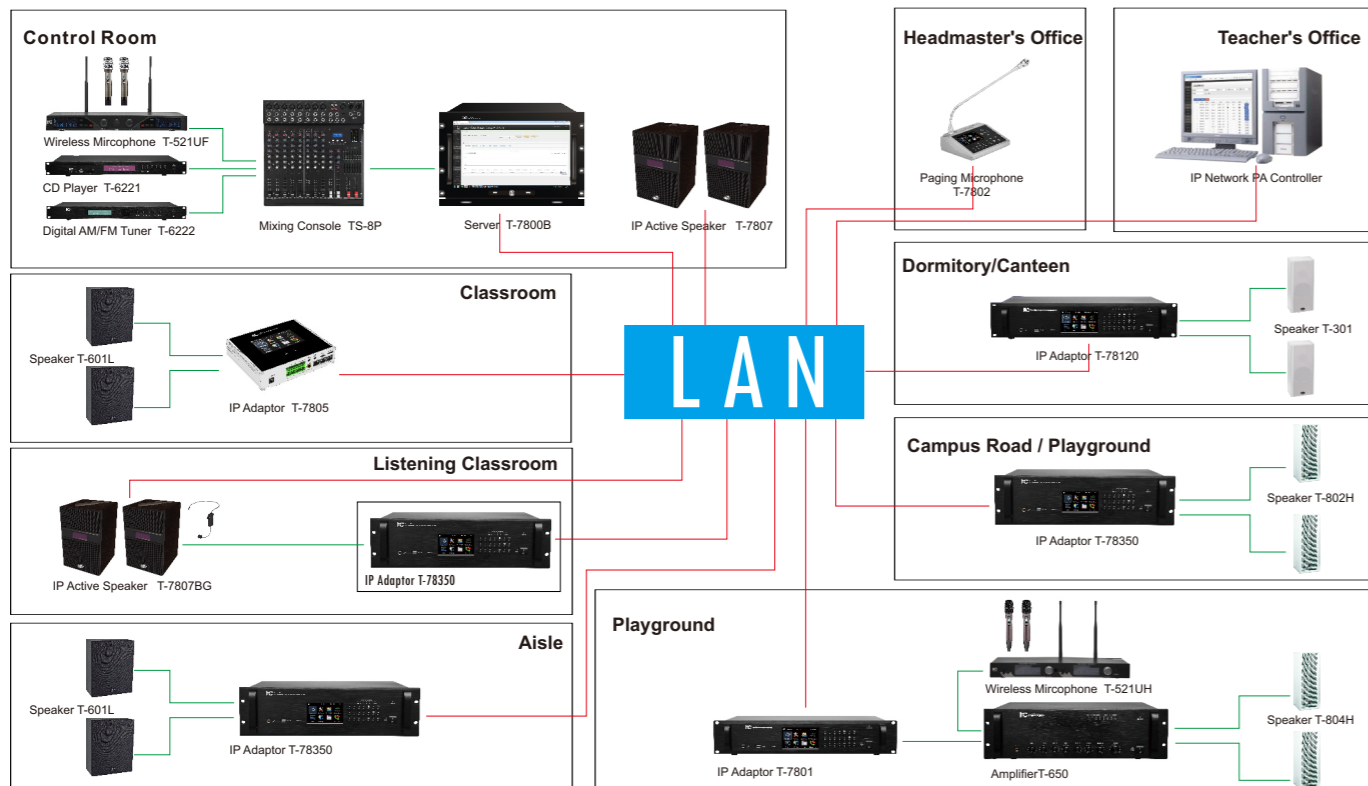


Features

- Bell broadcast:** For the school programs the class bell according to the daily schedule and timetable, and the server run automatically according to the programmed bell schedule to realize automatic bell ringing for all zone, particular zone group and selected zone group. It can meet school requirements for bells for different time and different area.
- Program broadcast:** Users can operate the campus music on the server for automatic programming broadcast and manual control play in all zones or particular zone group or the designated area in school radio control room and the teacher's office, meeting the demand of school timely music play in different area.
- Multimedia instruction:** Users can operate the network audio terminal and login server program library in the classroom, and choose listening files, the terminals support functions like single cycle, multiple loop, subsection playing, fast forward, fast rewind and replay etc, meeting the demand of playing different teaching files freely.
- Remote course preparation:** Support remote login the server in teacher's office to add listening files and audio files; Support audio files play on demand via the remote audio terminal in any classroom; Support WEB access, support multiple login synchronous and support thousands of classroom terminals to play audio files on demand at the same time.
- Wireless broadcast:** To meet school outdoor activities, system support handheld wireless microphone broadcast like school Square, flag tower, playground, etc.
Remote broadcast: Set network paging station in the principal and teacher's office for remote paging for all zones, particular zone group and selected zones.



High School Application

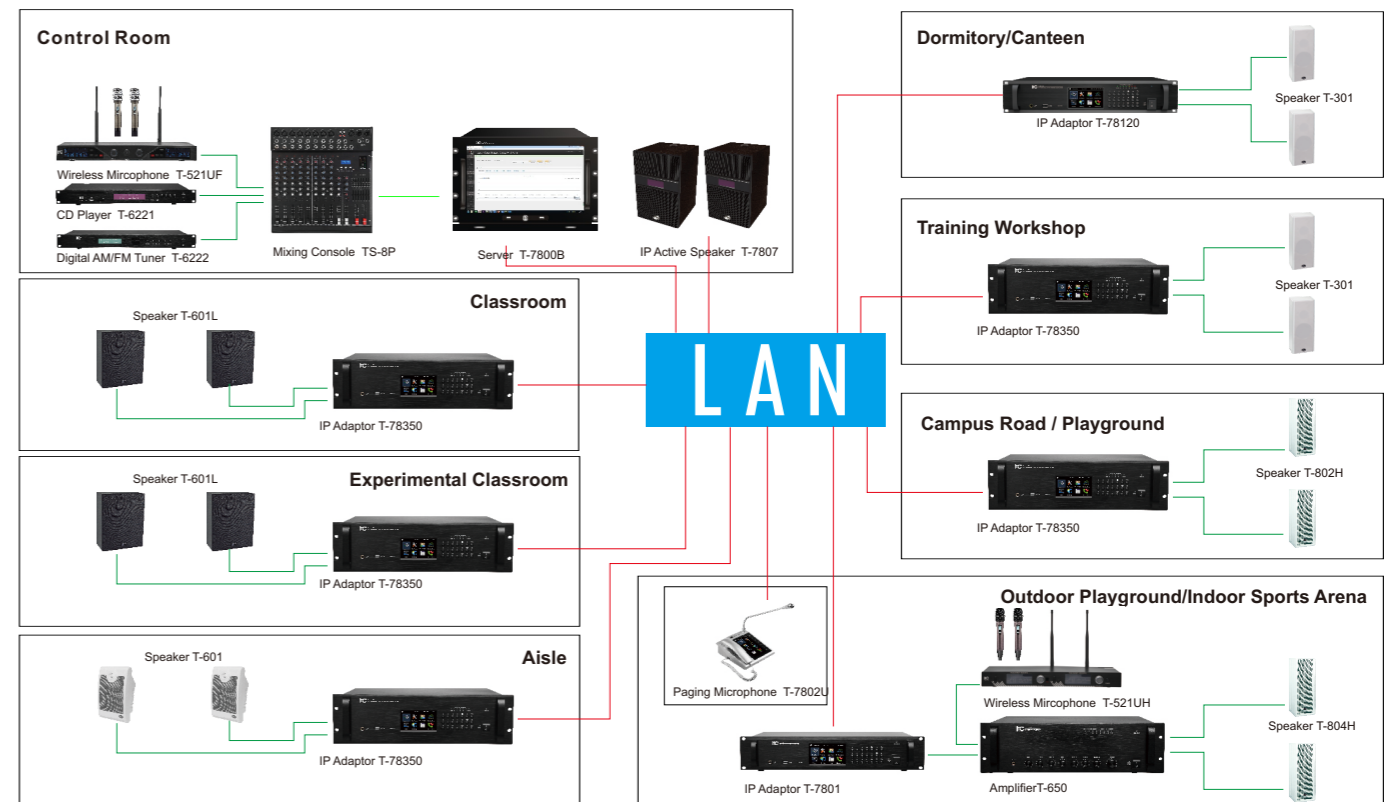


Features

- Bell broadcast:** For the school programs the class bell according to the daily schedule and timetable, and the server run automatically according to the the programmed bell schedule to realize automatic bell ringing for all zone, particular zone group and selected zone. It can meet school requirements for bell for different time and different area.
- Program Broadcast:** Program can be operated and broadcasted from control room or teacher's office automatically or manually. It can broadcasts to all zones, single zone, or designated region, to meet the needs of broadcasting different music to different regions at different time.
- Multimedia Teaching:** Log in the server program library from the terminal in classroom, to remote select the listening material to play on demand, with the functions of loop playback for single or multi-songs, segment play, fast forward, fast backward, repeat and so on.
- Remote Lesson Preparation:** Teachers can remote login server from office, to add listening files, audio files, to remote play on demand at any classroom terminal, access to WEB page. It supports several teachers to login and operation synchronously, supports hundreds of classroom's terminals to play on demand synchronously.
- Wireless broadcast:** Wireless handhold microphone can be broadcasting at the square, flag tower, and playground and so on, to meet the needs of school outdoor activities.
- Remote broadcast:** Remote paging stations can be installed in the headmaster's and teacher's office, to be able to remote page to all zones, single zone, or designated region.
- Listening Test:** The server supports multi-channel audio capture cards, collecting the listening audio to play to the examination room. The audio terminal is built in constant voltage of 100V backup for audio signal, to make sure the smooth process of listening exam, by automatically switch into back up mode in case of fault.



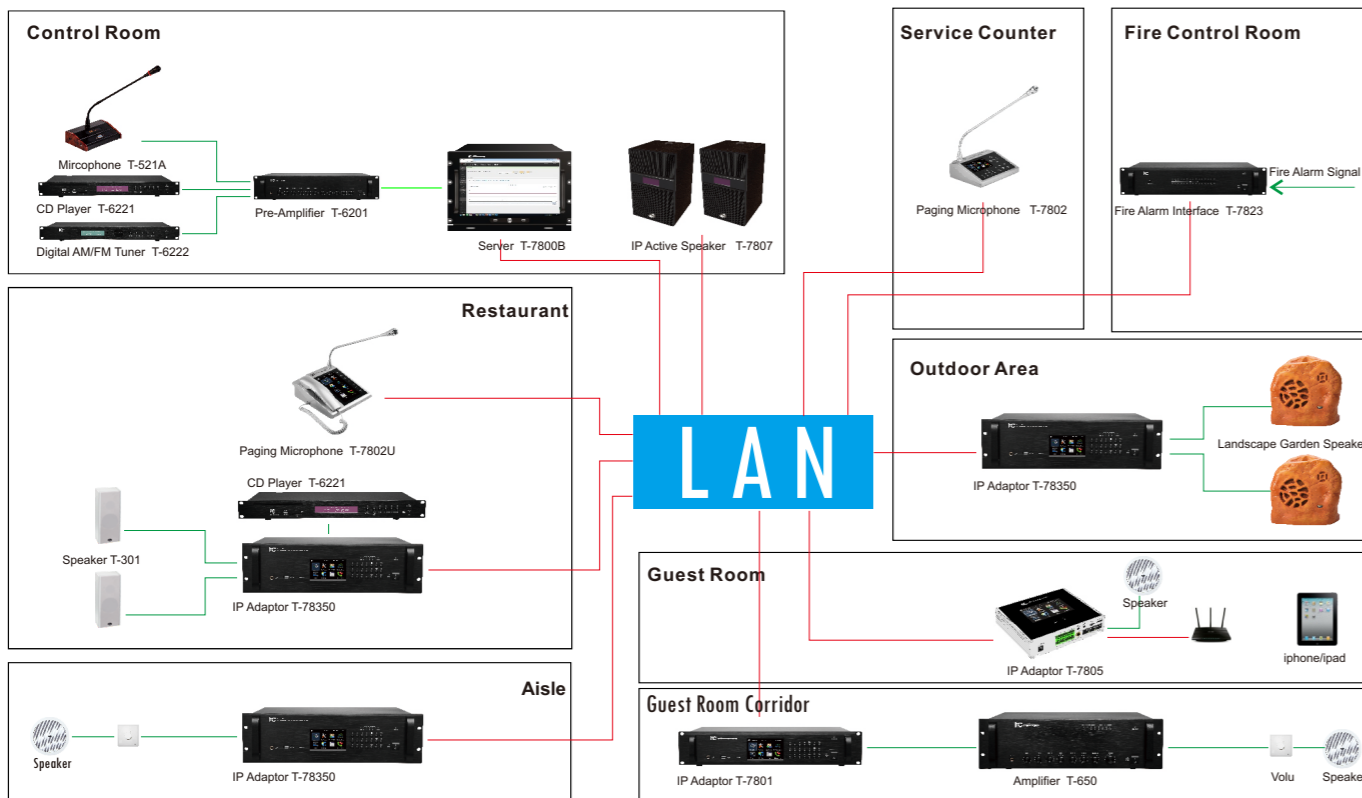
University Applications



Features

- Bell Broadcast:** University operate bell program according to the daily school timetable, then the server will operate the program automatically, to achieve automatic unattended bell broadcast to all zones, single zone, or designated region, to meet the needs of bell broadcasting to different regions in various time periods.
- Program Broadcast:** Program can be operated and broadcasted from control room or teacher's office automatically manually. It can broadcasts to all zones, single zone, or designated region, to meet the needs of broadcasting different music to different regions at different time.
- Rating Broadcast:** Each departments can be set to be different groups, and remote operate from sever to edit and play program to designated group, to fulfill each department can broadcast independently, without interference.
- Wireless broadcast:** Wireless handhold microphone can be broadcasting at the square, flag tower, and playground and so on, to meet the needs of school outdoor activities.
- Remote Broadcast:** Remote paging stations can be installed in the headmaster's and teacher's office, to be able to remote page to all zones, single zone, or designated region.

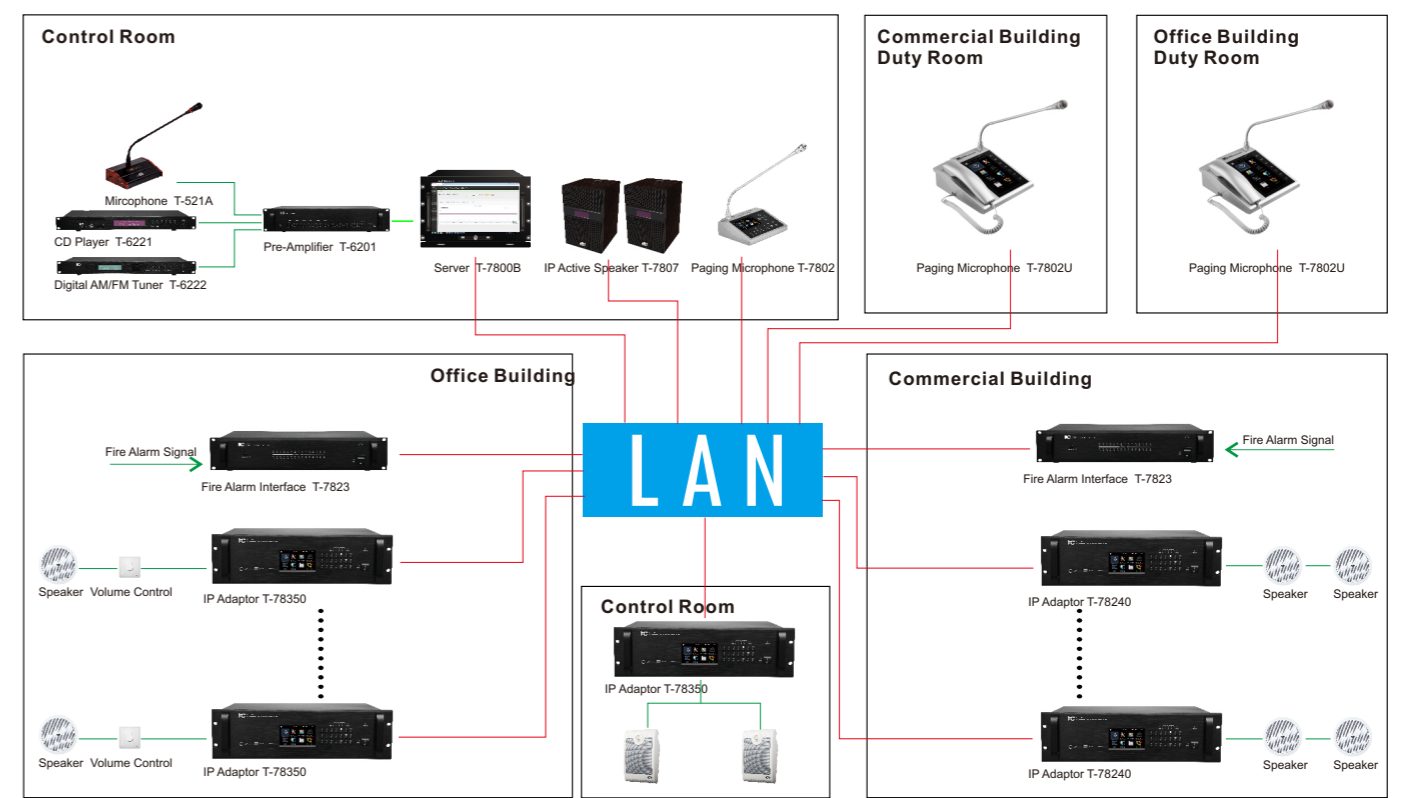
Hotels Broadcast Applications



Features

- Background music:** Terminals can be installed in hotel's lobby, dining room, leisure area, guest rooms, corridors and so on, then users can login server to select music program to play to all zones, specific zone, or designated regions on demand via LAN. Broadcast can be programmed to be automatic and manual, to meet the needs of different broadcast to different regions at different time.
- Guest room play on demand:** The terminal in guest room is with color touch screen, for guest easy operate, login server program library to select a song to play, and also can push song from mobile's AirPlay music player to the terminal to broadcast on demand.
- Local / Remote Broadcast:** Remote paging station can be installed at reception, bar, duty room and so on, the staff can have local / remote paging to all zones, single zone, or designated region
- Local/remote audio on Demand:** Install the network branch stations in the hotel reception desk, bar, duty room and other regions, operator can control the network branch station to local/remote audio on demand, can play the music in server or network branch station to all zone, any zone or appointed zone.
- Multi-station control:** Server adopt the method of web register, users can log in the server through network to management and play the audio in any region of hotel reception desk, bar, duty room, office etc.
- Fire Alarm broadcasting:** Broadcasting system and Fire Alarming system is linkage, once the hotel has fire accident, the broadcasting system and fire alarming system will be linkage, music playing will stop, and broadcast the fire alarming audio. Also can choose to play in all zones, any zone or appointed zones.

Large Commercial Center Broadcast Applications

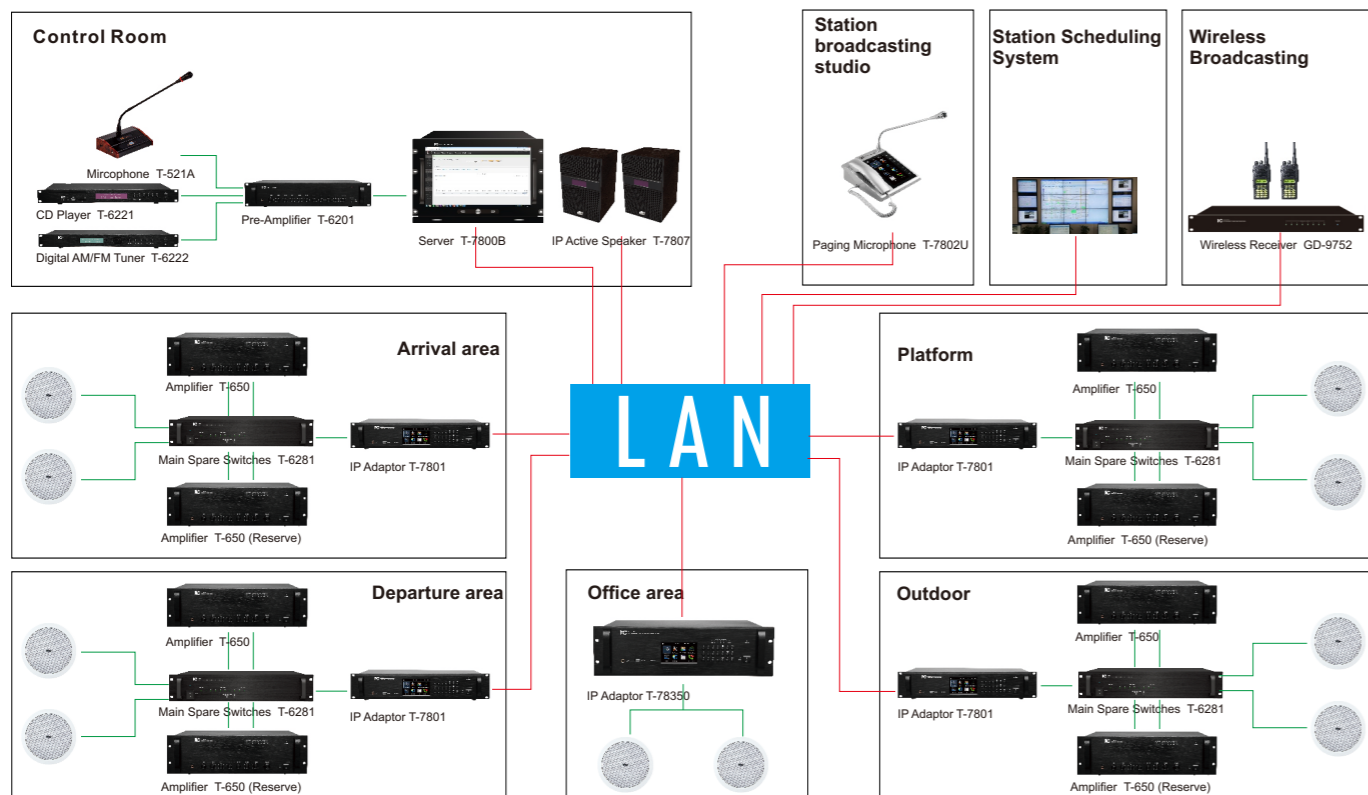


Features

- Background music play:** Install the Public Address system in the commercial city of shopping malls, office buildings, entrances/exits, plazas, underground garage and other places, log in the server and play the music programs, transfer the audio to any zone through LAN, playing automatically or manually can be chose, also can choose to play in all zones, any zone or appointed zones, meet the demands of different time playing different music in different zones.
- Daily events broadcasting in all zones, any zone:** Duty office of Commercial city can control the commercial city uniformly, can broadcast the office building and shopping mall in all zones or any zone, including some notices for missing persons.
- Local/remote broadcasting:** Install the network call station in duty room, office and other regions, operator can use the call station to broadcast in all zones, any zone or appointed zone.
- Local/remote audio on Demand:** Install the network branch stations in the duty room, office and other regions, operator can control the network branch station to local/remote audio on demand, can play the music in server or network branch station to all zone, any zone or appointed zone.
- Multi-station control:** Server adopt the method of web register, users can log in the server through network to management and play the audio in any region of duty room, office and other places.
- Fire alarm broadcasting:** Broadcasting system and Fire Alarming system is linkage, once the building has fire accident, the broadcasting system and fire alarming system will be linkage, music playing will stop, and broadcast the fire alarming audio. Also can choose to play in all zones, any zone or appointed zones.



Railway Broadcast Applications

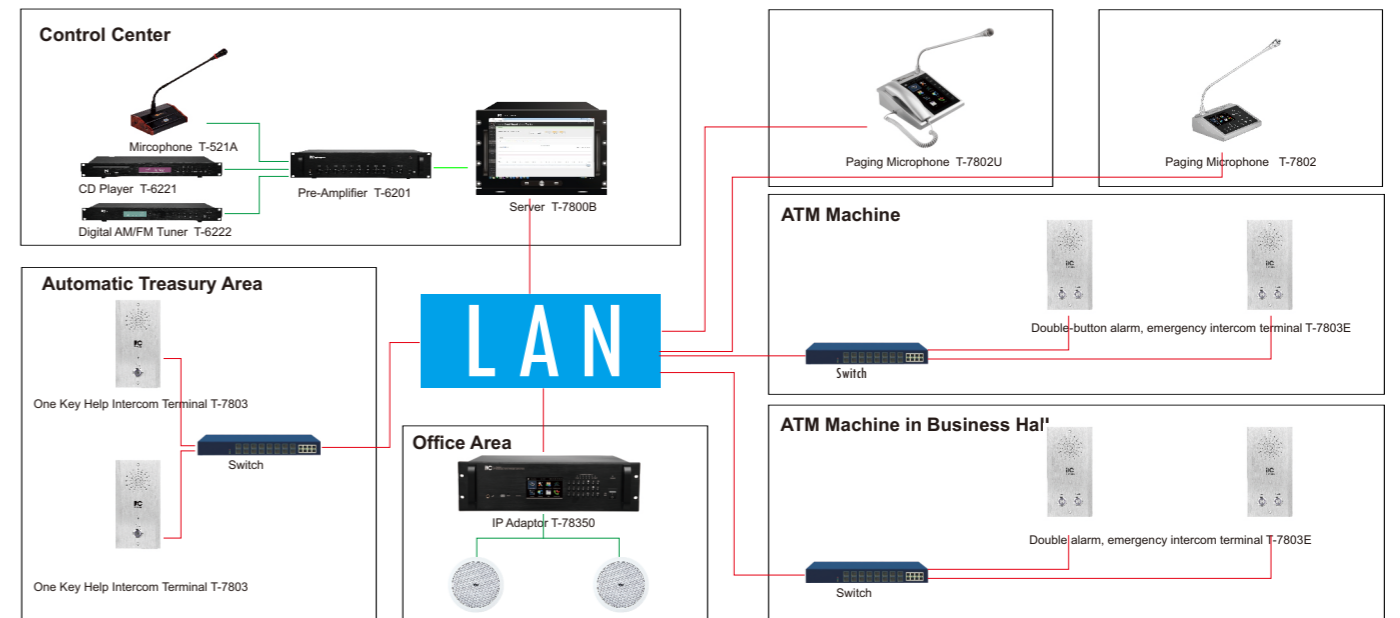


Features

- Train services broadcasting:** Broadcasting system integrate with travelling information platform, broadcasting the train number in travelling information platform automatically, can broadcast in all stations, any station, temporary broadcasting and urgent broadcasting, also can broadcasting manually.
- Remote broadcasting:** Install the call station in the station operation department, duty room and reception etc. operator can control the call station to local/remote broadcasting, can broadcasting to all zone, any zone or appointed zone, also can urgent broadcasting by one key.
- Wireless broadcasting:** The operator can use the handheld wireless mic to broadcasting in the platform, the hall, the ticket office, etc.. can be used as temporary information of train number, crew guiding, internal intercom talking etc.
- Fire Alarm broadcasting:** The broadcasting system has linkage with the fire alarm system. Once has fire accident, the broadcasting system and fire alarming system will be linkage, music playing will stop, and broadcast the fire alarming audio. Also can choose to play in all zones, any zone or appointed zones.
- Backup operation:** From server to amplifier, there are backup operation, when security master equipment failure, backup device can quickly switch startup.
- Internal communication:** Install the intercom terminals in the station duty room, ticket window, station inquiry desk etc. Operators can use the intercom terminals to internal communication, High security communication mechanism can meet the internal real-time talking, build the quick, efficient and secure internal communications.



Bank Broadcast / Intercom Applications

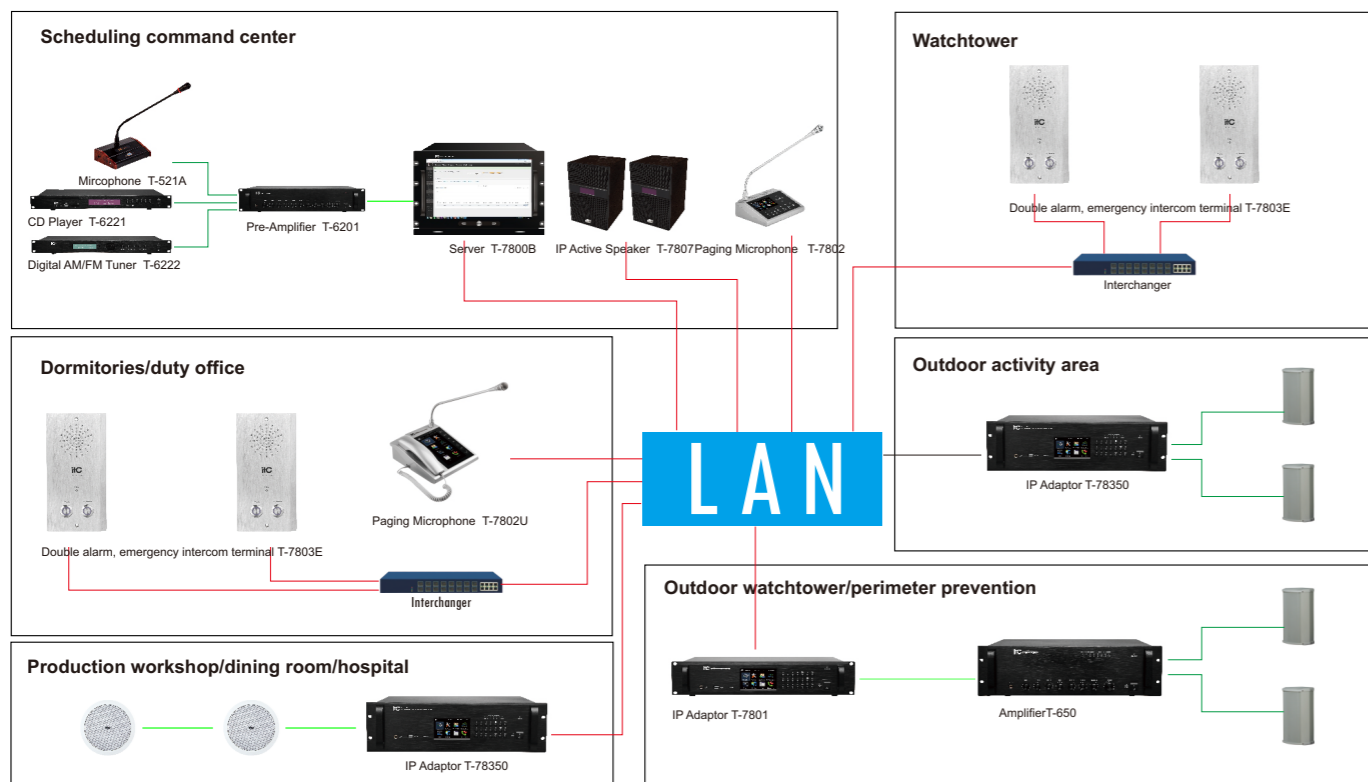


Features

- Multi-level, multi-place networking:** Install the intercom alarm system in provincial bank center, municipal banks, county banks and other banks in towns, etc, by using the banks' internal communication network, no need to add special network. The system can realize multi-level platform management, setting permission by the central control center.
- One key for help, one key for alarming:** Install the help alarming terminal in banking office ATM, when customer meet following urgent events (ATM swallows the bank card, no cash comes out from the ATM, ATM failure, etc), can call to the monitoring center or service center by the button of one key for help, ask for audio help or manual help; also record all the intercom conversation.
- Intercom terminal mic:** has the function of pick up, the voice around the ATM can be monitored and recorded by monitoring center, once the real-time monitoring function start, recording function automatically start, also can separately start the recording function of voice around the ATM in monitoring center, without start the monitoring function. When customer enter the self-service bank area, will play "Please remind the safety" audio automatically.
- Remote paging:** When operators in monitoring center found an unusual situation in self-service banking places, they can send reminding information to those points by the remote paging mic.. The operators in monitoring center can lock the door through the system to protect site when emergency situations.
- Business inquiry:** When customer wants to inquiry business, they can contact the service center through the one key for inquiry in the ATM, can know business information easily.
- Treasury security:** Bank staffs want to enter/out the treasury, they need to get the access authorization from monitoring center, all staffs need to call to monitoring center through the audio system, ask for permission from monitoring center, and recording and saving all process.
- Intercom terminal mic:** has the function of pick up, the voice around the treasury door can be monitored and recorded by monitoring center, once the real-time monitoring function start, recording function automatically start, also can separately start the recording function of voice around the site in monitoring center, without start the monitoring function.
- Monitoring center:** can broadcasting multi treasury zone, for example the Cash Storehouse, loading place, repeat counting zone, distributing zone etc.
- Front-end information broadcasting:** The system can broadcast the information of business conditions, financial information, financial dynamics etc. It can also broadcast and emergency evacuation information in emergency situations.
- Higher office of bank:** can broadcast notice information through the system to any branch in its bank system.
- Internal communication:** The operators can use the intercom terminals in internal communication. The high security communication mechanism can meet the internal real-time talking, achieve the quick, efficient and secure internal communications.
- Third-platform integration:** Intercom system provides third-party embedded development platform, provides a standard MFC dynamic link library, achieve system integration of large-scale systems and large-platform.



Prison PA/Intercom Application Solutions

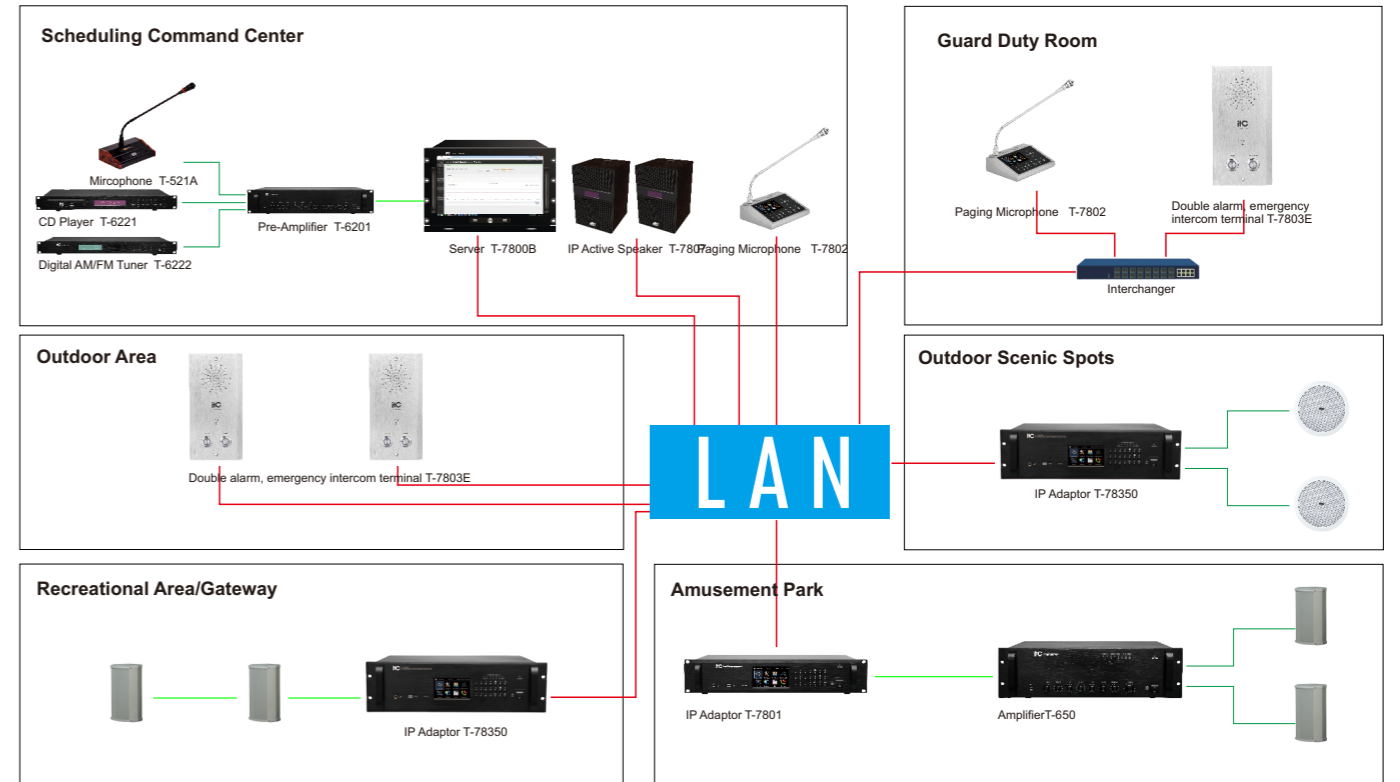


Features

- Intercom function:** Can achieve full duplex intercom function between duty room terminal and prison warehouse. When the prison warehouse terminal call to the duty room terminal, duty room terminal can answer through "one key to answer" button.
- Alarming function:** When the prison warehouse terminal alarming, can transfer to duty room immediately, duty room can display the alarming site address and deal with the event immediately. If alarming happen, when the duty room no response, it will upload to head duty room automatically within pre-set time, can achieve classification regulation, avoid alarming event omission. When intercom and alarm occur simultaneously, alarms have priority interrupt intercom and uploaded directly on the duty room terminal; When use the anti-riot terminal "call" button, there are tone, but use "Alarm" button, it will silently spread intercom host to prevent personal security.
- Monitor function:** Duty room terminal can monitor dormitories.
- Video linkage function:** By integrating and connection of monitoring software platform, Whether the prison anti-riot terminal "Alarm" the duty room or the duty room "Call" prison anti-riot terminal, all can achieve monitor screen of control room can show the prison scene. To achieve the intercom and video integrated.
- Broadcast function:** Duty center console or terminal can paging and broadcast music to dormitories, workshops, kitchen, hospital, the outside, school buildings, meeting buildings and other areas.



Park Scenic Area Broadcast/Two-way Intercom Application Solutions



Features

- Background music play automatically**
Park broadcasting system can play different background music in different zone, to relax tourists and background music can be automatically controlled.
- Service broadcasting**
Park broadcasting system can be timed set for some selected zones or all zones to play local tourist information, weather reports, tips, etc.
- Radio Paging**
Park Management Office can set up workstations to do remote paging in any workstation; the tourists can find the nearest radio station to send tracing information.
- Emergency Broadcast**
When emergencies happen or suddenly weather change, the park staff can promptly notify the tourists.
Report to police, two-way voice intercom
As visitors has emergency situations, they can use the nearest intercom terminal send a request for help or call to control center, to get help in the shortest time.