IP/TCP System -6700 Series

Description
IP Network PA System is an online sound system based on IP data network transmission technology. It can work in LAN, WAN or Internet.

The complete system is comprised of network zone, network adapter and audio processing equipment, it is within much easier for installation or system integration to understood and operate. The whole system communication through an universal industrial standard CAT 5 cable, which give much help of saving wiring labor cost, longer distance communication, extreme convenient installation and maintenance, high level sound quality and online broadcasting.

Each network adapter can independently broadcast different program through its own music library or the network server music library. The system also supports extra audio source real time recording. Network broadcasting and voice alarm system both available.

The system signal is processed by high speed dual CPU (Intel Xeon or IBM) this feature plus digital amplifier seriously make sure the system’s highest level sound quality and wide frequency range from 20Hz to 14800 and the clarity key to 3.3 octave.

High reliability and flexibility of integration with building automation systems like video surveillance, house control, the lighting system. Each program only takes about 6Mbps bandwidth, it is possible to transmit more than hundreds of programs at the same time in normal LAN.

Features
- Digital Signal Transmission
  The system encodes analog signal into digital data to network adapter which decode the signal analog to speaker. This way, high quality sound is ensured and signal interference is eliminated.

- IP Addressable Network Adapter
  Each network adapter of its own addressable IP address cable of assignment program from network server and access to softkey program.

- Network Audio Source Program
  All of the audio sources could be managed by several administrators of different levels of rights.

- Timely Broadcasting
  The network server with timer function could have scheduled program different jobs to achieve automatic broadcast and voice alarm over assigned network adapters.

- Visualization Software
  The English visualized user-friendly software provide a direct and convenient interface for easy operation.

- Intelligent Management
  The system not only feature of high audio processing capacity like record, speed change, circle and import, but also timely broadcast, automatic voice alarm and remote management and maintenance.

- Easy Cable Layout
  The whole system communicated only through one CAT 5 cable, which saves a lot of project labor cost. The highest flexibility feature whenever you have internet, you can install this network adapter to enjoy full features of background music, paging and fire alarm system.

- Easy maintenance and Upgrade
  The high reliability will let you get rid of extra maintenance cost and free of virus infection. Long time when system upgrade just by software revision all software.

Functions
- Multi-zone Paging
  Assignment from network server to network adapter, group, separate zone, all zones. While the network paging adapter also could make announcement to other network adapters, group, separate zones and all zones.

- Timely Broadcasting
  Both network adapter can receive and assign its own scheduled task or program whether from the network server or its own library.

- Microphone Priority Paging
  The network paging adapter in the LAN could easily access to the system to make announcement to group, separate zones and all zones regardless of location.

- Relay Broadcasting Online Program
  The system could easily modify the online program from internet into digital data and broadcast to network server real-time or scheduled program. Web, File, Uplink, and ODN.

- External Audio Sources Matrix Broadcasting
  The system could use codec, CD, DPH, microphone audio into digital data and store into the network server to matrix broadcast to network adapter real-time or scheduled program.

- Scheduled Ring Bell
  The built-in timer could be easily program different tasks to broadcast at assigned zones. It is very suitable for applications where scheduled activity is needed like in school, hotel, mosque. Queue program is available during rainy or snowy day.

- Self-help Service
  The network adapter with remote control could easily access to [with password] self-help service whether from the network server or its own library, like play music, edit program.

- Signal Activated Power Management
  The network adapter will be automatic power off when an signal input for 1 minute and power on immediately at receipt of input whether music or microphone.

- AV Files Edit
  You can use the software to edit the AV files, such as cutting, mixing, fade-in, fade-out, noise elimination and speed change while keep the voice.

- Music Library
  This system can have a stereo storage more than thousands of hours music songs and voice message files.

- Automatic Voice Alarm System
  With interface for the fire alarm systems to set different voice alarm modes from the network server.

- Monitoring System
  The IP system can have random adapter to monitor the whole system.

- Play Modes and ID Control
  Every program could select different play modes volume control.

Digital IP Network Broadcast System Drawing

IP Network RS32 Communication Cable

IP-C

Features
- Control with terminal address, special serial line for IP terminal, applicable to all IP terminal products;
- Supports special K in this box, differ from common serials, incompatible, not applicable to other products;
Digital IP PA System

**IP Network Pa System Software T-6700R**

**Features**
- Standard TCP/IP network protocol, installed in Ethernet connecting PC; software package contains server software and browser client software (PnP-compatible).
- 1-Wire input, can realize remote paging any node.
- Can transmit at least 20 channels of audio signal to each network node simultaneously; 4 lines are external connection, other 16 lines are internal audio source; even if 30 lines of frequency are transmitted simultaneously, the overall system takes up less than 1W bandwidth, which meets each line takes up no more than 100Kbps.
- Support all audio formats that Windows does (MP3, WAV, etc.), no more need to configure MP2 and other audio sources software and equipments.
- With detecting panel, can realize any node’s playing status.
- The large programmeStore can store 10 thousand programmes; play without repetition for a continual week.
- Automatically play and timing functions can realize playing defined programmes in defined time, defined areas with unattended operation.
- Multi-playing function, can arbitrary necessary operating modes automatically and can automatically playing at will.
- Can turn off, turn on amplifiers in each node.
- With digital synchronization panel, can remote control any node in the system in real time or audio effects in the areas.
- The software has management function for audio sources programme, can freely record audio sources, audio CD format processing.
- The software processes remote upgrade function, upgrading each function is available.

**POE Ceiling Speaker IP-SS15**

**Features**
- Full digital IP system. 16 6-coin level sound quality.
- IP65 ceiling speaker support IEEE 802.3af communication protocol.
- Built-in mixer and AD converter.
- Power supply and data communication through CATS cable.
- Network system calls heater system.
- Intelligent gain optimization, AC power and power gain auto adjustment for highest efficient and most suitable working status.
- Full range ceiling speaker with fire resistor back box.

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>IP-SS15</th>
<th>IP-SS15</th>
<th>IP-SS15</th>
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<tr>
<td>Power Supply</td>
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<td>20W</td>
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<td>Power Consumption</td>
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<td>Communication Port</td>
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<td>Weight</td>
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<td>1.5kg</td>
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</table>
**IP Network Remote Paging Console**

**T-6702**

**Description**
This is the main contribution to realize the any-way broadcasting (point, separate zone, all zones) and display of intercom communication.

**Features**
- 8” Color LCD screen, touch panel operation interface.
- With color and function keys, simple operation even in any condition or separated zone.
- All systems can be set up and the operations can be controlled by remote control.
- Supports 5.1-CH surround sound, 16-channel input, 12-CH output, connected with power amplifier externally.
- RS-232C rear input.

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**IP Network Audio Adapter (Rack mount)**

**T-6701**

**Features**
- 4-CH rack mount IP network audio module in 2U height.
- For single channel IP network.
- Supports high-quality audio and IP streaming.
- Input of IP background music, source paging in voice alarm system.
- Each IP and USB sources display the IP address and status in single.
- Supports remote control over multi-select and IP address change and volume alteration.
- A simple IP address writer in communication port.
- A noise key can be set for conference operation.
- A call key can be set for emergency operation.
- A 4-channel audio input offers key and 4-channel 2-way volume control.
- A built-in BGM background control and mix input.
- Automatically power off when no input for 3 minutes and automatically power on when signal input.
- Prevents power management.

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**IP Network Audio Adapter (Wall mount, with Amplifier)**

**T-6705**

**Features**
- 4-CH rack mount IP network audio module in 2U height.
- Supports high-quality audio and IP streaming.
- Input of IP background music, source paging in voice alarm system.
- Each IP and USB sources display the IP address and status in single.
- Supports remote control over multi-select and IP address change and volume alteration.
- A simple IP address writer in communication port.
- A noise key can be set for conference operation.
- A call key can be set for emergency operation.
- A 4-channel audio input offers key and 4-channel 2-way volume control.
- A built-in BGM background control and mix input.
- Automatically power off when no input for 3 minutes and automatically power on when signal input.
- Prevents power management.

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**4-CH IP Network Adapter (Rack Mount)**

**T-6704**

**Features**
- Includes 4 audio independently systems.
- 4 groups independent single channel IP input.
- 4 groups independent dual-channel IP input.
- 4 groups independent single line input, external connect with power amplifier.
- 4 groups independent line input, external connect with power amplifier.
- Includes speaker priority function.
- A local paging TN1-3, input, connect with BGM functions and local line input.
- Emergency with highest priority over both BGM and local line inputs.
- Central line input will switch with BGM inputs.
**IP Network Adapter (Wall Mount, with Amplifier) T-6705A**

**Network Input**: Standard 802.11n, 1 input

**Protocol Support**: TCP/IP, UDP/SMTP (group broadcasting)

**Transmit Speed**: 10/100Mbps

**Audio Format**: 16 digital audio channels

**Frequency Output**: 20kHz – 20kHz

**SNR**: ≥75dB

**Output Power**: 1W/4Ω, 5W/8Ω

**Speaker Output Impedance**: 4Ω, 7Ω

**Class D Power Output**: 1W ± 5% (4Ω), 5W ± 5% (8Ω)

**Line Input**: Balanced Line Input

**Jacks**: 3 x 3.5mm Stereo Jacks

**Dimensions**: 220 x 175 x 50 mm

**Weight**: 0.8 kg

**Application**: Accepts networked audio streams from a central control system.

**Features**:

- 8 LED display, human operation interface.
- Multiple protocol support for seamless integration.
- Expandable bus network for easy scalability.
- 24VDC power supply.
- 36W power consumption.

**Usage**: Use to connect the bus network signals to the wall-mounted interface.

**Data Converter T-6713**

**Network Input**: 2GET/1GET

**Protocol Support**: TCP/UDP/HTTP

**Transmit Speed**: 480/1600Mbps

**Working Temperature**: -20°C ~ 40°C

**Working Humidity**: 95% ± 8

**Power Consumption**: ≤10W

**Power Supply**: 100-240VAC

**Linearity**: <±0.1%

**Dimensions**: 64 x 222 x 200mm

**Weight**: 1.8 kg

**Rear Panel**

- 1 x RJ45
- 1 x RJ45
- 1 x Power input
- 1 x Audio input
- 1 x Audio output

**Usage**: Use to connect the bus network signals to the wall-mounted interface.

**Features**:

- 24VDC power supply.
- Full-duplex data communication.
- 100m line length support.

**IP Network Voice Alarm Interface T-6723**

**Model**: T-6723

**Power Consumption**: 15W

**Communication Protocol**: TCP/UDP

**Communication Interface**: RJ-45

**Communication Speed**: 480Mbps

**Power Supply**: 100-240VAC

**Dimensions**: 46 x 210 x 40mm

**Weight**: 1.8 kg

**Rear Panel**

- 1 x RS-485 serial port
- 1 x RJ45 communication port
- 1 x Power input

**Features**:

- IP-controlled home automation.
- Voice alarm interface.
- Schedule and timer control.
- Remote monitoring and control.

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**Digital IP PA System**

**Public Address System**