TOA

IP-3000 Series

IP Network Public Address System

Accessible anywhere, anytime on any device

Monitoring and setting can be done easily by logging-in to control GUI via browser

IP-3000 Series   IP Network Public Address System

Description

IP-3000 Series is a browser controllable, large capacity IP-based network public address system. It is an all- purpose network public address system with TOA's advanced packet audio technology assuring higher levels of security, versatility and sound quality.

This system is equipped with web browser viewer system, composed of server, audio interface, analog microphone and web viewer. Using a PC or a portable device without installing any specific software, you can monitor broadcast / failure status, control broadcast or sound volume and setting system by the control GUI with browser in everywhere. The Web Viewer can also use as a microphone console, that serves as hardware buttons or LED indicators of IP microphone. Equipment connection check function can also be done easily and conveniently. When an equipment is disconnected from network, the server will send e-mail to report the error.

High quality audio with 48kHz, 16bits sampling size and wide frequency response with 20Hz - 20kHz of IP-3000 series make it suitable for market that required good BGM quality. 3 priorities of emergency, General, BGM are also available for broadcasting.

System Features

» 48 kHz, 16 bits sampling size

» Frequency response: 20Hz - 20kHz

» Audio Interface is equipped with DSP functions: TRIM, Volume Control, HPE, EQ, LPF, COMP and Delay.

» Remote microphone with recording function

» 'Packet Audio' technology can ensure real time and stable audio and control signal transmission over IP network

» IP network connection allows system expansion without limitation of distance and location

» Star Connection Topology

» Web viewer is able to manage full functions: status monitoring, control and setting

Maximum System Capacity

Inputs	Max. 4096
Outputs	Max. 4096
Audio channel	Max. 1024
Priority levels	Max. 300

IP-3000 Series System Manager

IP-3000SM

IP-3000SM

» Can manage and control the whole voice alarm system with maximum 1024 X 1024 input/output.

» Dynamic backup function is available if 2 units of network system manager are linked.

Specifications	IP-3000SM
Power Source	100-240 V AC wide range
Input no.	1024
Output no.	1024
Bus no.	1024
Priority Control	300 Step
Maximum no. of control input/ control output	4096 x 4096
Event Log	Max. 1,000,000 logs
Emergency Log	Max. 1,000,000 logs
Sampling Frequency	48KHz
Frequency Response	20~20KHz
Network Protocol	TCP/IP
Connector	RJ-45 x2 RS-232 x1
Operating Temperature	-10°C to 50°C
Colour	Black
Dimensions (W x H x D)	427 x 89.2 x 366 mm

IP-3000 Series Audio Interface Unit

IP-3010AF

IP-3010AF

» Can implement the IP streaming media transmission of the Analog audio input 4CH, Analog audio output 4CH

» Can implement the signal control of the 16 control input / 16 control output.

Model No.	IP-3010AF
Power Source	24V DC
Current Consumption	DC: 1A or less, AC Adapter, 2P removable terminal block
Control Input	16 channels, no-voltage contact input, open voltage: 24V DC, short-circuit current, 5mA or less, removable terminal block (20P)
Control Output	16 channels, relay output, withstand voltage: 24V DC, maximum current: 500mA, removable terminal block (32P)
Network Section	Network I/F:100BASE-T x1 Network Protocol: TCP, UDP, ARP, RTP, CMP, TTP, IGMP, FTP Sampling Frequency: 48kHz, 16 bit ; Connector: RJ45
Audio Input	4 channels, electronically-balanced (optional, transformer-isolated), phantom power supply (17V, can be set with the switch), MIC -60dB*/LINE 0dB*(changeable), 2.2kΩ, removable terminal block 3P ×4
Audio Output	4 channel electronically-balanced (optional, transformer-isolated), 0dB*, 10kΩ, removable terminal block (3P×4)
Frequency Response	MIC 100Hz~16kHz ±3dB, LINE 20Hz~20kHz ±3dB
Switch	Front: Reset switch; Back: DIP Switch, MIC/LINE gain switch, phantom power supply switch
Indicator	Network LNK/ACT: green x1, STATUS: green x1, SIGNAL: green x4, PEAK: red x4, OUTPUT: green x4, Power indicator: green x1
Volume Control	4 channels input volume knob, rear
Finish	Steel plate, black (munsell N1.0 or equivalent color), 30% gloss, paint
Dimensions (W x H x D)	420 x 44.3 x 360 mm
Weight	4.3kg
Accessory	AC Adapter x1, Plastic foot x4, Screw for fitting plastic foot x4, Removable terminal plug 2P x1, Removable terminal plug 3P x8, Rack Mounting bracket MB-15B x2, Removable terminal plug 10P x2, Removable terminal plug 16P ×2, Screw for rack mounting ×8,
Option	Wall Mounting bracket: MB-2015ST Q

IP-3000 Series   Compact Audio Interface Unit

IP-3001AF

IP-3001AF

» Can be mounted to different surfaces

» Able to act as both input and output units in the network system

» The device can also receive messages from server and other devices for initiating broadcast.

» Support using browser to change the device setting

<div align="right">* 0 dB = 1 Vrms</div>

Specifications	IP-3001AF
Power Source	DC 24V
Current Consumption	2.2W or less
Control Input	No-voltage control contact input, open voltage: DC24V, short circuit current: 5mA, removable terminal plug (10P)
Control Output	Relay control contact output, contact withstand voltage: DC24V, maximum current: 500mA, removable terminal plug (10P)
Network Section	Network I/F：100BASE-T x1 Network Protocol：TCP, UDP, ARP, RTP, CMP, TTP, IGMP, FTP Sampling Frequency：48kHz,16 bit ； Connecting terminal: RJ45 terminal
Audio Input	Electronic balance input, phantom voltage DC 17V, MIC -60dB* / LINE 0dB*, removable terminal plug (10P)
Audio Output	Electronic balance output, 0dB*, removable terminal plug (10P)
Frequency Response	MIC 100Hz~16KHz ±3dB*, LINE 20Hz~20kHz ±3dB*
Switch	Reset switch in the front DIP switch on one side: MIC/LINE input switch, microphone phantom power supply switch
Indicator	STATUS indicator in the front
Volume Control	Audio input volume adjustment knob in the front
Finish	Panel: stoving varnish-coated steel plate, black (munsell N1.0 or similar color)
Dimension	71(W) x 40(H) x 82(D) mm
Weight	300g
Accessory	Demountable wiring terminal(10P) x1, plastic pad x4

IP-3000 Series   Amplifier Network Module

IP-300XI

IP-300XI

» Allow the amplifier to extent the network function

Specifications	IP-300XI
Power Source	DC 24V, supplied by the amplifier body
Current Consumption	70mA or low
Network Section	Network I/F：100BASE-T x 1 Network Protocol：TCP, UDP, ARP, RTP, CMP, TTP, IGMP, FTP Connector: RJ45 terminal ； Sampling Frequency：48kHz ,16 bit
Switch	Reset switch in the front
Indicator	STATUS indicator in the front
Volume Control	Audio input volume adjustment knob in the front
Finish	Panel: stoving varnish-coated steel plate, black (munsell N1.0 similar color)
Weight	90g
Accessory	Screws M3x8 x2

IP-300RM

IP-300RM

» The microphone and control interface can choose the broadcasting zone

» Can implement the IP streaming media transmission of Analog audio input 1CH, Analog audio output 1CH.

» Can select any audio channel for monitor output

» IP Microphone: Direct connect to IP network

Model No.	IP-300RM
Power Source	AC 100-240V 50/60Hz
Power Consumption	250mA or less
Control Input	1bus, Switch Signal
Audio Input	-20dB*, 10kΩ, unbalanced, φ 3.5mm Stereo Mini Jack
Audio Output	0dB*, 600Ω, unbalanced, φ 3.5mm Stereo Mini Jack (Optional transformer balanced output)
Frequency Response	20Hz-20kHz (MIC 100Hz-16kHz)
Network connection	100BASE-T network connection, ethernet RJ45 plug
Microphone	Unidirectional electret condenser microphone
Keys	13 zone selection keys, emergency key x1, talk key x1
Indicator	Power indicator : green x1, failure indicator : orange x1, emergency Indicator : red x1, selection indicator : green/orange x13
Volume Control	Audio input volume control, microphone volume control, monitor speaker volume control
Finish	Panel: ABS resin, black ; Case: steel plate,black (munsell N1.0 or equivalent color)
Dimensions (D x W x H)	190(W) x113(H) x 216.5(D) mm (without goose neck microphone)
Weight	1.5kg
Accessary	AC Adapter x1, power cable x1

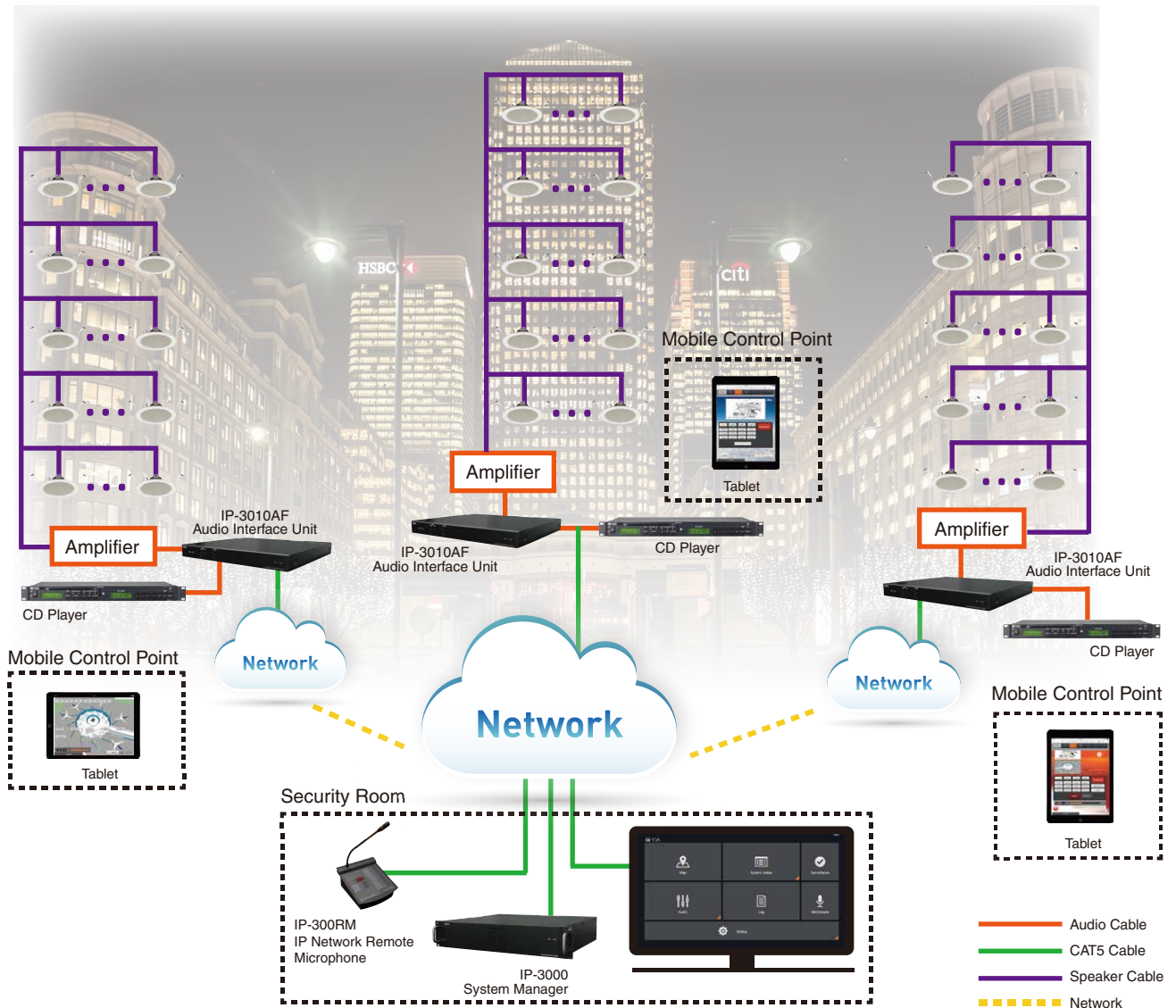» Web browers that can connect to the control GUI

Browser

OS

» Control GUI function include: Monitor broadcast/ failure status, control broadcast or sound volume and setting system

» Can operate a portable device as a microphone console

IP-3000 Series Typical Solution: Grade A Commercial Office

Mobile Control Point — Tablet

Amplifier
IP-3010AF Audio Interface Unit
CD Player

Amplifier
IP-3010AF Audio Interface Unit
CD Player
Network

Network

Mobile Control Point — Tablet

Amplifier
IP-3010AF Audio Interface Unit
CD Player
Mobile Control Point — Tablet

Security Room
IP-300RM IP Network Remote Microphone
IP-3000 System Manager

Audio Cable
CAT5 Cable
Speaker Cable
Network

Advantages

With its extensive capacity and network ability, IP-3000 is particularly suitable for commercial complex and A-graded commercial building with extensive area.

IP-3000 vast capacity of 4096 audio input and output matrix can cope with the most complicated zoning and audio routing operation precisely. The use of TOA originated "Packet Audio" prevents any loss in message occurs during network transmission. Recovery mechanism of "Packet Audio" ensures both completeness and quality of the message.

The control GUI of IP-3000 requires no software to be installed in any device but by logging-in to the system network. Control points can easily be added by any mobile device like tablet or notebook computer with Wi-Fi function.