TOA

SIP & IP

Audio Solutions

Seamless communication solutions via SIP/IP-based networked audio systems

What is “SIP”

One may wonder “what is SIP?” or what are its benefits in comparison to pre-existing systems. Session Initiation Protocol, in essence, it is a signaling protocol that utilizes Voice Over Internet Protocol (VoIP) to send messages and data between endpoints. This protocol is text-based, incorporating aspects of Hypertext Transfer Protocol to deliver specified “payloads” to desired endpoints, either collectively or individually. SIP supports voice calls, video conferencing, instant messaging, and media distribution, and through it more detailed and data-rich content can be shared without undesirable compression or delays.

SIP vs IP

SIP serves as a solution to address the continually evolving needs of IP-based communications. While IP allows for communication via the internet, SIP serves as the level above. SIP allows for fast, efficient communication between devices with the added benefit of multiple media types. Both SIP and VoIP allow you to transfer voice information to and from your computer or mobile device.

Facility-wide Coverage with TOA

Here at TOA, we recognize the pivotal role that sound systems and audio play in our daily lives, whether through announcements and communications, security, or even atmosphere and music. Sound serves as one of the cornerstones of the human experience, this is why we’ve devoted nearly a century’s worth of experience, research, and engineering towards creating sound solutions that elevate users’ lives.

With so many aspects of a facility requiring modern sound systems, compatibility and ease of use become yet another challenge for facility managers and operators to tackle. To face these challenges, we’ve developed an expansive catalog of interconnected audio components to ensure each facility—irrespective of size or scale—has a bespoke modern audio system that is reliable, compatible, and provides efficient sound coverage, all whilst delivering the same high-quality sound that is synonymous with our brand.

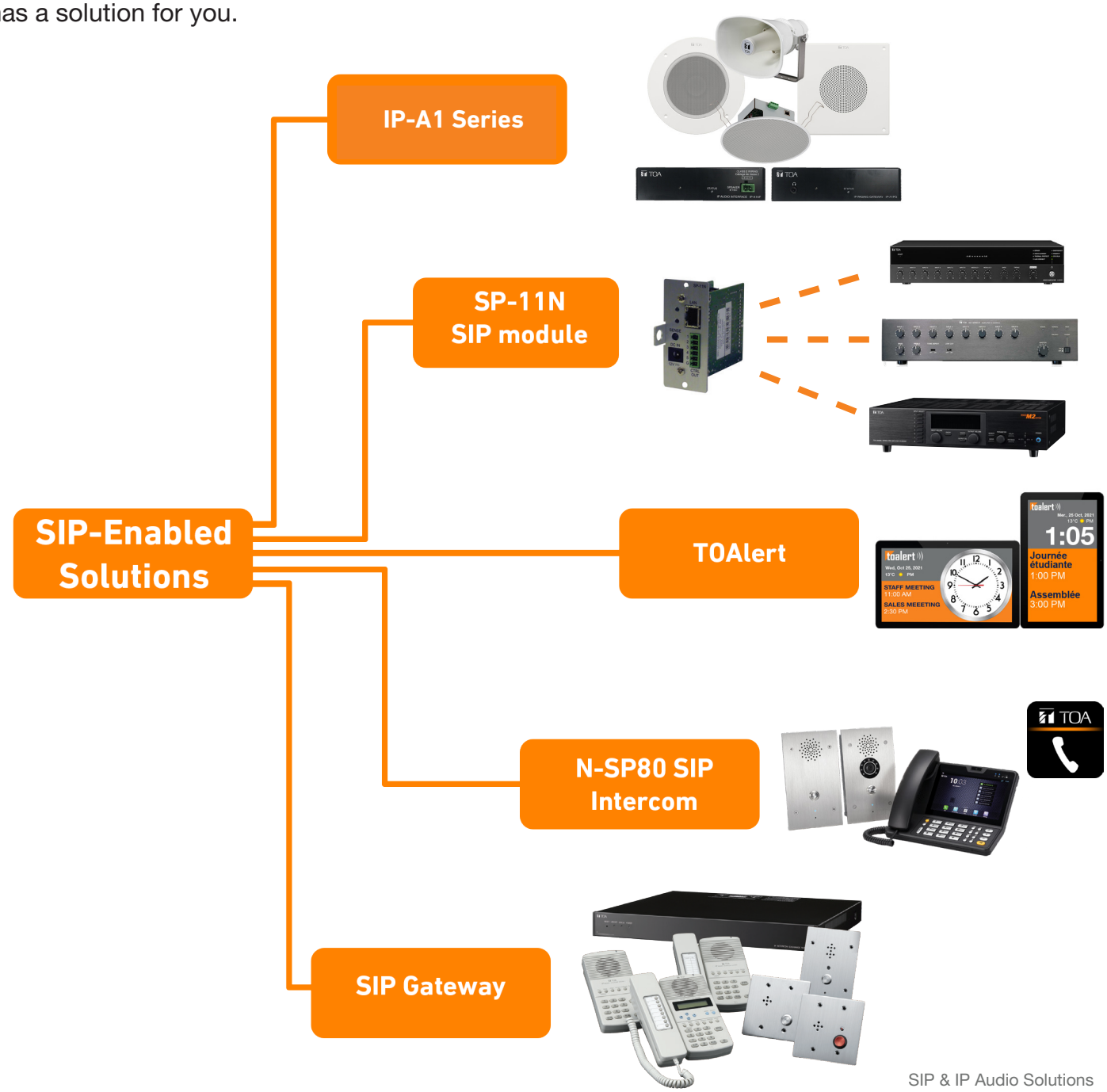
SIP-Enabled Sound Solutions

TOA provides a wide variety of SIP-enabled products for a variety of typical facility needs and functions, including: paging, announcements, voice evacuation, mass notification, access controls, BGM/FGM, and tailoring user/attendee experience. With all these available options, TOA serves a single manufacturer solution for complete sound solution, meaning that integrators are assured that compatibility and configuration challenges are a thing of the past.

TOA's SIP-Enabled Setup

At TOA, there is a major focus on being able to provide an end-to-end audio solution for our clients, and as time progresses and trends change, we aim to be able to provide modern solutions fit for a broad range of facilities and applications. As such, we've consistently be iterating on scalable SIP systems that enable integrated communication throughout a facility. We're happy to confidently present the culmination of integrated area-specific distribution or facility-wide communication networks, ranging from small-scale SIP systems, all the way up to large scale SIP systems for complexes and applications that require distributed audio.

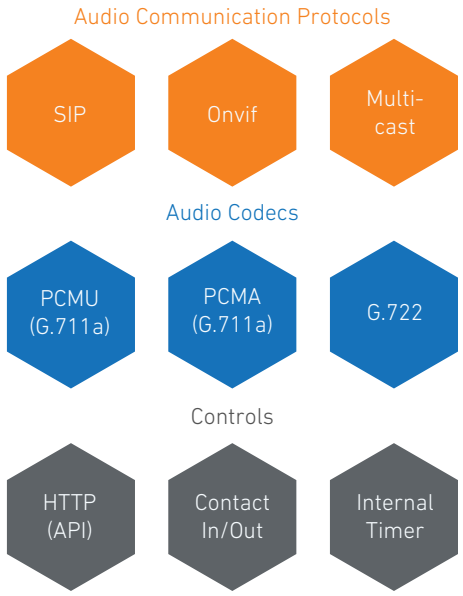
We supply a large range of audio and visual solutions for applications of all types, whether you'd like to iterate upon your existing SIP-enabled system, or develop a solution with our design team, TOA has a solution for you.

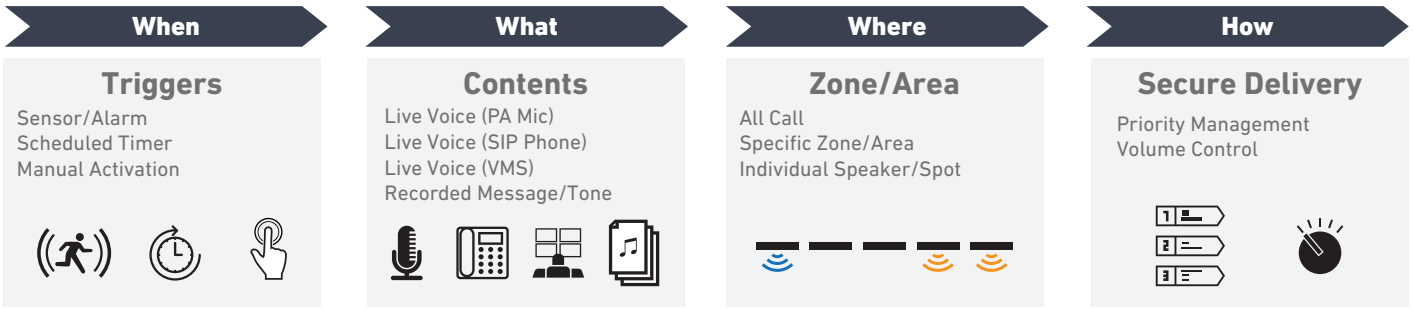


IP-A1 Series

IP-A1 series consists of a variety of commercial-grade IP audio solutions, which can be used either as an independent audio system, or serve as a fully integrated audio communication system. The series is configurable and operatable in conjunction with external SIP systems/platforms such as security video monitoring, access control, digital signage, or fire alarm systems.

Our IP-A1 series adopts common industrial standard protocols for its audio communications and controls. allowing not only for easy integration, either by only utilizing IP-A1 components, or with external devices and platforms such as SIP phones, security VMS (Video Management Software), or even access Control or Sensing systems. When it comes to modern audio solutions, incorporating IP-A1 devices into your commercial communication system allows for flexible audio communications across your network.





IP-A1 Lineup

Transmitter

IP Remote Microphone

IP-A1RM

Transmitter

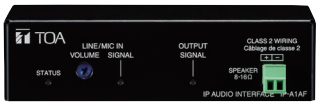
IP Paging Gateway

IP-A1PG

Receiver

IP Audio Interface

IP-A1AF



Receiver

IP Power Amplifier

IP-A1PA12

Receiver

IP Ceiling Speaker

IP-A1PC238

Receiver

IP Horn Speaker

IP-A1SC15

Receiver

IP Ceiling Mount Speaker

IP-A1PC580R

Receiver

IP Speaker

IP-A1PC580S

Accessory

Microphone Panel

IP-A1MP

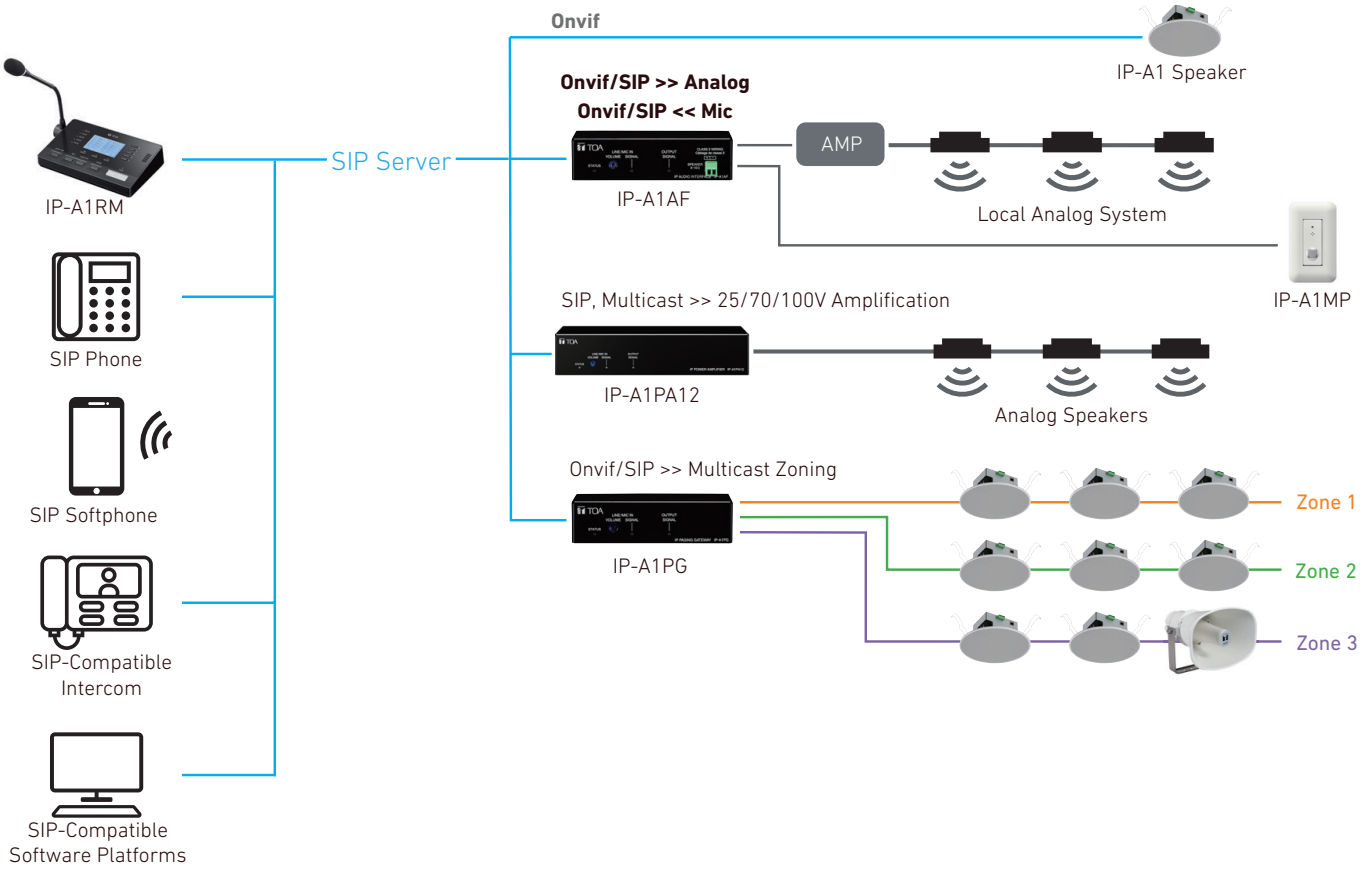
Transmitter

Receiver

IP Horn Speaker
w/ Microphone

IP-SC15MC

IP-A1 Series Example



IP-Based Intercom

We're proud to be able to supply users with a variety of IP solutions for intercom and access control applications. Whether its a project that requires immense scalability, or systems that require authorized users straightforward entrance and denial functionality, TOA ensures that safe and secure daily operations are easy.

Our N-8000 IP Intercom System is an integrated audio communication system achieves fast, accurate communications with optimal security and reliability. Prime applications for the N-8000 include: conversation, paging broadcasting and BGM broadcasting, emergency paging and broadcasting, audio triggering, and other security functions. The N-8000 System's impressive scalability enables users to configure an intercom system that satisfies their precise requirements, from a small system with just two stations to a large, complex system with up to 192 components and 3,072 stations. Its open architecture permits flexible interfacing with other systems, moreover, reducing costs by enabling users to upgrade and expand their intercom system without replacing currently installed equipment, such as surveillance cameras, telephones and access controls.

N-8000 Lineup

Transmitter
Multifunctional Master Station
N-8000MS

Transmitter
Standard Master Station
N-8010MS

Transmitter
Standard Hands-Free Master Station
N-8011MS

Transmitter
Analog Standard Master Station
N-8410MS

Transmitter
IP Multifunctional Master Station
N-8600MS

Transmitter
Industrial-Use Master Station
N-8020MS

Transmitter
IP Door Station
N-8640DS

Transmitter
IP Door Station
Q-N8640DSB

Transmitter
IP Door Station
N-8650DS

Transmitter

Door Station
N-8050DS

Transmitter

Flush-Mount Hands-Free Master Station
N-8031MS

Transmitter

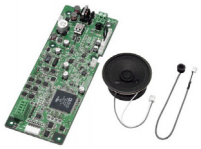
Flush-Mount Master Station
N-8033MS

Transmitter

IP Door Station Board Unit
N-8640SB

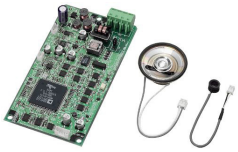
Transmitter

Master Station Board
N-8031SB



Transmitter

Door Station Board
N-8050SB



Transmitter

IP Remote Microphone
N-8610RM

Transmitter

Handset
RS-141

Transmitter

Handset
RS-191

Transmitter

Handset
RS-481

Transmitter

Switch Panel
RS-140

Transmitter

IP Intercom Switch Panel
RS-143

Transmitter

IP Intercom Switch Panel
RS-144

Transmitter

Sub-station (Indoor Type)
RS-150

Transmitter

Sub-station (Indoor Vandal-Resistant type)
RS-160

Transmitter

Sub-station (Outdoor Vandal-Resistant Type)
RS-170

Transmitter

Sub-station (Emergency Use)
RS-180

Transmitter

Substation
Q-RS180BZ

Transmitter

Sub-station (Indoor Type)
RS-450

Transmitter

Sub-station (Indoor Vandal-Resistant type)
RS-460

Transmitter

Sub-station (Outdoor Vandal-Resistant Type)
RS-470

Transmitter

Sub-station (Emergency Use)
RS-480

Interface

SIP Gateway
N-8000SG2

Interface

Audio Interface Unit
N-8000AF

N-8000 Lineup Continued

Interface

Telephone Interface Unit
N-8000AL

Interface

C/O Interface Unit
N-8000CO

Interface

Direct Select Unit
N-8000DI

Interface

IP Network Intercom Exchange
N-8000EX

Interface

Multi Interface Unit
N-8000MI

Interface

Sub-station Interface Unit
N-8000RS

Interface

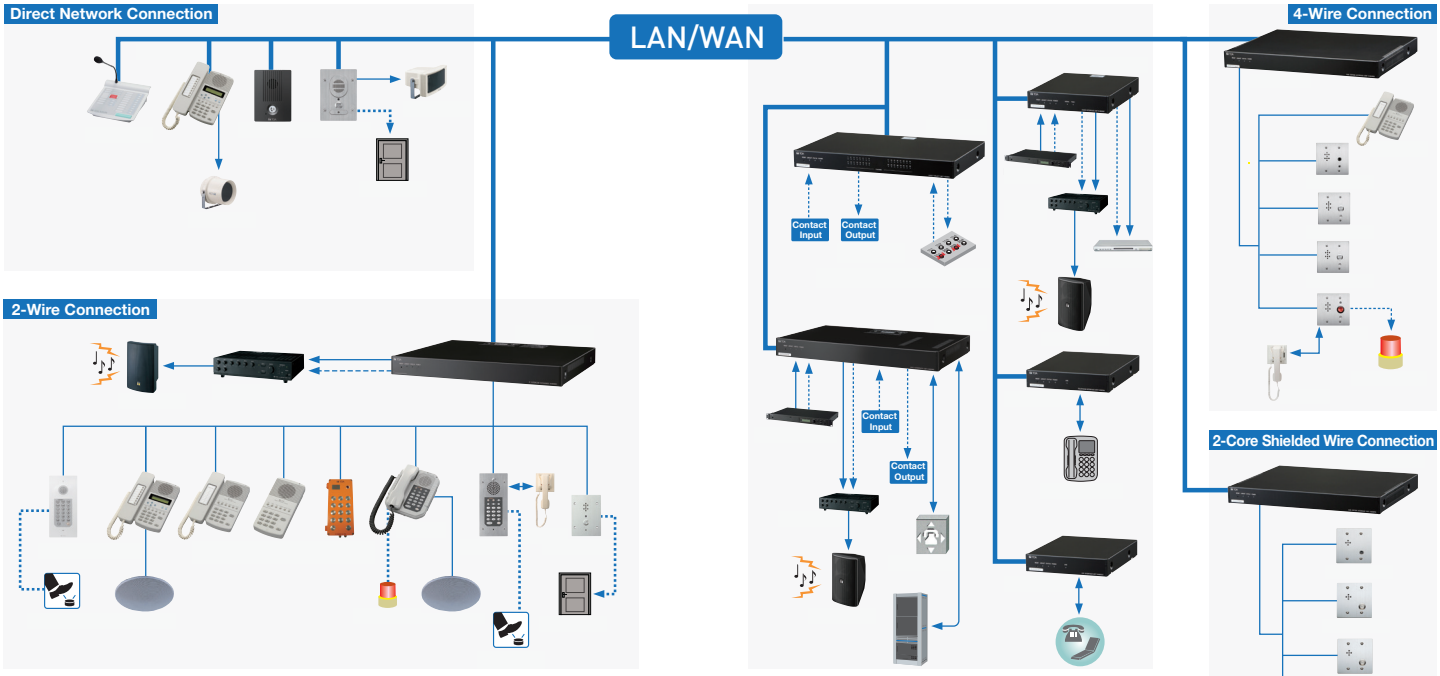
IP Network Intercom Exchange
N-8010EX

Interface

Sub-station Interface Unit
N-8010RS

Interface

Sub-station Interface Unit
N-8400RS



System Specifications

LAN Connections
Max. 192 units (total no. of Exchanges, Interface Units and IP stations)

Station Connections
Max. 3,072 stations (16 stations connected to each of 192 Exchanges)

Voice Links
Max. 768 links (4 links for each of 192 connected N-8000EX Exchanges)

Paging
Zones
Max. 192 zones

Paging Outputs
Max. 384 outputs (2 outputs for each of 192 connected N-8000 Exchanges or Multi-Interface units)

BGM
Max. 8 channels (number of channels selectable from a station)

PBX Interface
Max. 384 units (2 units for each of 192 connected Multi-Interface units)

Tie-Line Interface
Max. 384 units (2 units for each of 192 connected Multi-Interface units)

Outside-Line Interface
Max. 192 units

Telephone Interface
Max. 192 units (when 192 Telephone Interface units are connected)

External Contact Output
N-8000MI
Max. 3,072 (16 outputs for each of 192 connected Multi-Interface units)
N-8000DI
Max. 6,144 (32 outputs for each of 192 connected Direct Select units)
N-8000AF
Max. 1,536 (8 outputs for each of 192 connected Audio Interface units)

External Contact Input
N-8000MI
Max. 3,072 (16 inputs for each of 192 connected Multi-Interface units)
N-8000DI
Max. 6,144 (32 inputs for each of 192 connected Direct Select units)
N-8000AF
Max. 1,536 (8 inputs for each of 192 connected Audio Interface units)

[Network Relations]
Audio Delay Time
80 ms/320 ms; changeable

Connection Delay Time
Max. 1 second (when 191 multicast paging destinations are set)

Bandwidth Used
Max. 2.08 Mbps (one-way)/unicast paging to 16 locations

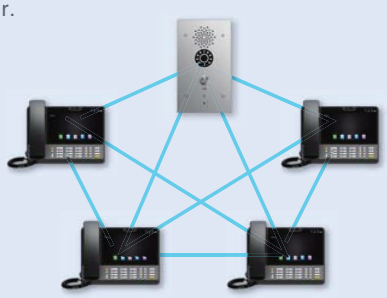
Max. 130 Kbps (two-way)/per call

SIP Based Intercom

Conversely, our N-SP80 SIP intercom system takes a more modular and third party-compatible approach. Supporting high-quality audio and as well as video transmission. The device features easy unlocking operation that gives users simple an intuitive and straight-forward set of controls, making it ideal for installing at a building entrance, carpark gate, or other point of entry. With TOA, you're also assured of thorough after-sales service, ensuring the utmost quality whether its installation day or years after. With nearly a century of experience in the industry, we proudly serve as a specialist manufacturer of security and audio equipment serving customers in over 120 countries worldwide.

Supports peer-to-peer communication

Build a system with stations only—no need for an SIP server.



Compatible with variety of SIP servers

Where an SIP server is already in place, adding an N-SP80 station is easy. It's compatible with Cisco CUCM, Asterisk and Genetec Sipelia.*

* All product and company names are trademarks or registered trademarks of their respective owners.

Doors unlockable from master station keypad

N-SP80 Lineup

Master Station
SIP Multimedia Station
N-SP80MS2

Accessory
Heater Surface Mount Back Box
YC-832HSW AM

Door Station
SIP Video Door station
N-SP80VS1

Accessory
Surface Mount Back Box
YC-811-AM

Door Station
SIP Audio Door Station
N-SP80AS1

Accessory
4 Size Back Box
YC-400

App
N-SP80 Intercom System Mobile App
N-SP80APP

Accessory
N-SP80MS2 Wall Bracket
N-SP80WB2

Coming Soon

Interface
Standalone PCB SIP Board
N-SP80SB

SIP Integration Through the SP-11N Module

The SP-11N is a VoIP phone paging module supported SIP (Session Initiation Protocol) with Auto-answer function. It can be connected to an IP network and directly registered as one SIP phone station on various SIP server management software. It also has VOX and mute functions designed for use with TOA's 9000M2, 900, 700 and BG-2000 series amplifiers. Through this, TOA is able to provide an extended catalogue of sound solutions, now including amplifiers, speakers, and other TOA components that aren't already SIP-enabled. The SP-11N can be paired with the SP-11NRB standalone chassis. This chassis allows systems that do not support TOA's 900 series modules to take advantage of the capabilities of the SP-11N AM.

SIP Module

SIP Integration Module

SP-11N

Standalone Chassis

Standalone PCB SIP Board

SP-11NRB

Coming Soon

Expander

SP-11N Zone Expansion Adapter

SP-11NEX

System Example

SIP Phone

- or -

SIP App

LAN/WAN

SP-11N

Non SIP-Enabled Mixers/Amps/ Processors/Speakers/Etc.

Visual Messages & Announcements With TOAlert

With TOAlert, you can easily manage and control daily events and emergency notifications, using preloaded message templates to create custom communications. Creating time-synchronized bells, audio tones, and notifications is achievable with the TOAlert scheduling tool. Deliver these tailored messages by room, floor, department, grade, or other desired layout. Use TOAlert to deliver clear and instant communications, exactly how you see fit.

TOAlert Lineup

Display

EverAlert Dynamic Full HD Display
EADV2

Interface

EverAlert Dynamic View
EABOX

Interface

integration Box
EAIV3

Accessory

Dynamic Display Power Backup Kit
EABATKIT

Accessory

Dynamic Display Wall Mounting Bracket
EASMB

TOAlert's communication system keeps people safe and secure, while saving time, money and complexity when managing organizational communications. It is the single solution that improves safety, connection and efficiency throughout a building or campus. Many industries have discovered the benefits of daily messaging, emergency notifications and synchronized time.

TOA

We supply sound, not equipment.

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