

# SIP SYSTEMS

## INTERCOMMUNICATION & PUBLIC ADDRESS

OPTIMUS Systems with SIP protocol eases configuration for control and communication systems at a great distance. Suitable for **intercommunication** with access areas, doors, refuge areas, barriers, elevators, ATMs, tolls, gas stations, information and help points... and for **public address** systems in schools, car parks, transport stations, industry, beaches, ports, evacuation plans in towns...



### PUBLIC ADDRESS



#### SIP

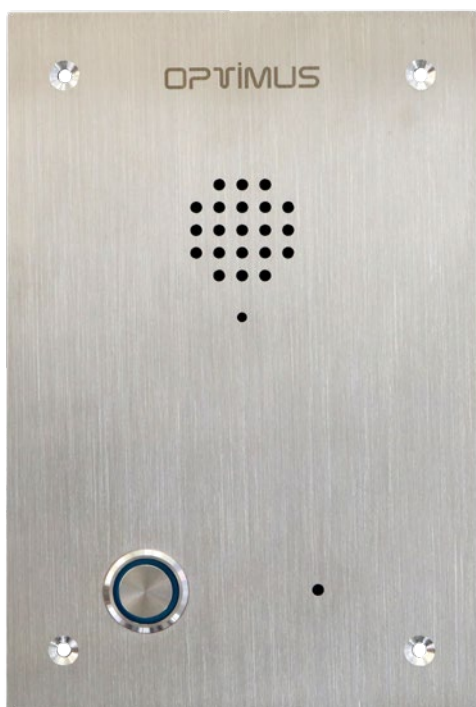
Protocol used in IP voice communications to establish, modify and end communication sessions. It enables compatibility between devices and integration in global control systems.

## Intercommunicators

### EP-44SIP | EP-44SIPH

Vandal-resistant weatherproof intercommunicator with SIP protocol, full duplex two-way audio, echo cancellation, noise reduction, web server, metal call button, active call indicator led, two configurable contacts (relay outputs) for door opening, open communication signalling, call in progress, integration with other systems (security, alarm, CCTV)... IK10 anti-vandal protection and IP65 weather protection using the CE-EP embedding box. 12 Vdc or PoE power supply.

EP-44SIP



EP-44SIPH



Special model for emergency call points, such as those installed in the refuge areas, (CTE DB SI - an. A), with:

- **Induction loop.**
- **Large SOS letters in red.**
- **Pre-recorded message for call in progress.**
- **Accessibility pictogram.**
- **CALL word in braille.**

### EK-30SIP

SIP intercom electronic board in metallic box, with speaker, microphone and push-button, to integrate into ATMs, elevators, barriers...



## Central control

One of the greatest advantages of using SIP protocol is the possibility of using any SIP phone as call monitoring station. Please, contact us for further information about the most suitable system to your requirements.

OPTIMUS has also specific control stations to take full advantage of the system's capacity.



## Servers

### T-100S » 100 extensions – T-600 » 600 extensions

Servers enhance the performance of intercom and PA interfaces and allow to configure systems with additional functions to those based on point to point p2p.

Among other features, servers allow audio recording, use of generic SIP smartphone applications, running behind a NAT (in different networks without VPN), sequential call, multiple call, call paging, use of generic SIP smartphone applications (simultaneous audio) simplex and duplex...

- 100 / 600 extensions.
- 50 / 150 l concurrent calls.
- Opus and G.722 high-quality audio codecs
- Web Server
- No license fee



**T100S** | 100 extensions | 50 concurrent calls



**T-600** | 600 extensions | 150 concurrent calls | expandable

## Speakers

### AE-15SIP

Horn loudspeaker with RJ45 port and network interface for connection via SIP protocol. It has an internal 15 W RMS amplifier with which it can reach a maximum SPL of 113 dB (1m, 1 kHz). Weatherproof with a degree of protection IP67. It incorporates U-type steel support, adjustable, for wall or ceiling installation.



### AT-M15SIP

Flush-mounted ceiling loudspeaker with RJ45 port and network interface for connection via SIP protocol. It has an internal 15 W RMS amplifier that allows a maximum SPL of 103 dB (1m, 1 kHz). It includes a microphone for supervision and/or intercommunication, an input contact and another output contact.

## Interface SIP

**IA-10SIP** » SIP → analog audio

**IA-20SIP** » SIP ↔ analog audio

IP/SIP audio interfaces to analog audio. They allow to transmit audio from any SIP device to an analog public address system: amplifier, preamplifier, power unit... The model IA-20SIP is bidirectional, it also allows to connect an analog audio source (microphone, musical source ...) and transmit the signal to SIP devices.



## Messages manager with zones & time programming

### SMM-8SA

Management system for sending 58 sequences of pre-recorded audio messages (50 with time programming and 8 with remote activation) and control of 8 loudspeaker zones. It has an analog audio output, input (8) and output (8) contacts and an Ethernet port (IP multicast messages).



## Amplifiers

### MP-120SIP

Class D digital amplifier with audio input via IP/SIP interface, 0 dB audio output and speaker output for 100 V line with 120 W RMS power. It has volume control, protection circuits against peaks, short circuits, overheating and overload, and power and protection LED indicators.



### MA-215SIP

Class D digital amplifier with audio input via IP/SIP interface and 2 x 15 W RMS (8 ohms) audio output. Volume control and PoE power.