

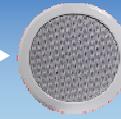


Converts each passive speaker in a IP-SIP Amplified one with Power from 10W to 40W!

Unique for Audio Power, Performance and size!



App for iOS & Android Smartphones



- Ads from Telephone Network
- Night Call Repeater
- Multicast Audio Streaming
- 2x5W and 2x20W models
- SIP Security Info Call
- Pre-recorded messages
- Internal SD memory card
- Relay activated via LAN
- PoE Power Supply
- P2P Peer to Peer feature
- SIP standard compatible

Innovative solutions for Paging and network LAN Control

AD611-AD612 allow to realize of PA paging systems in a standard LAN network by seamlessly integrating with IP-PBX SIP in order to be able to spread warning messages from any phone on the internal network and any technology: analogue phones, SIP, Smartphone and Softphone on PC. Access can be authorized by **password** code to be entered before the start of the announcement.

The unit, that is extremely compact, is internally equipped with a 2-channel class "D" audio amplifier that has a maximum output power of **2x20W** (AD612). The 2 outputs to the 8 Ohm external passive Loudspeakers are protected by short circuit, even permanent, making it extremely robust devices and also indicated in heavy and difficult environments.

2nd SIP Account - Night call repeater (SIP Ringer)

AD611-AD612 can be registered on the PBX with a second telephone number (2nd SIP account), different from the one used for the ads and inserted in the night group. At the arrival of an incoming call, the system plays a sound (user selectable) to the ad of all network speakers. The volume can be adjusted independently of the managed volume by the other audio channels.

Audio Multicast Streaming for music and ads paging

AD610 manages up to 16 multicast channels in LAN to priority levels and with different volumes to allow the distribution of background music on the loudspeaker network. The generation of musical programs in streaming audio can be managed from a PC on the LAN / WAN network with special software or special Tema Encoder. A priority Multicast channel can be reserved for a general call from a microphone or a suitable SIP phone.

Automatic announcements at pre-set times

It is possible to program the paging of announcements at predefined times, both on local loudspeaker or streaming to other devices.

"SIP Security Info Call" Service - Emergency SIP Call

By connecting a button or an external contact, the system can call a programmed phone number to alert the event with a warning specific message. It is a security service for emergencies or simple help and information request.

Total remote Management via LAN, integrated Web Server

Programming, configuration, loading and listening to audio files, replace the firmware release, audio volume adjustment, backup and restore the configuration, reboot the device.

Performance

- ◆ **2x20W max outputs** for passive external speakers
- ◆ **Night ringer** (2nd SIP account)
- ◆ **SIP Security Info Call** Alert/Emergency Phone Call
- ◆ **1 relay** remotely controllable via LAN
- ◆ **16 Multicast Channels** for Music/Ads/Messages diffusion also in High Audio Quality with 16bit linear codec up to 44KHz
- ◆ **P2P (Peer to Peer)** operation without IP-PBX
- ◆ Audio Volumes with **independent regulation** of the channels
- ◆ **802.af integrated PoE**, a single UTP cable for connection
- ◆ **SD Memory** with user-customizable audio file from each 16sec (Option up to 960 min - **16 hours of audio**)
- ◆ **Compatibility** with all IP-PBX of the most prestigious brands including 3CX and Asterisk-based systems
- ◆ Can be connected to **any type of PA amplifier** on the market
- ◆ **Extremely compact dimensions 74x58x25mm (AD611)**
- ◆ Wall mounting, table and **DIN rail**
- ◆ **MADE IN ITALY** BY **TEMA**: product made in Italy by TEMA which provides **support, technical assistance in time**, the software update and new future capabilities.

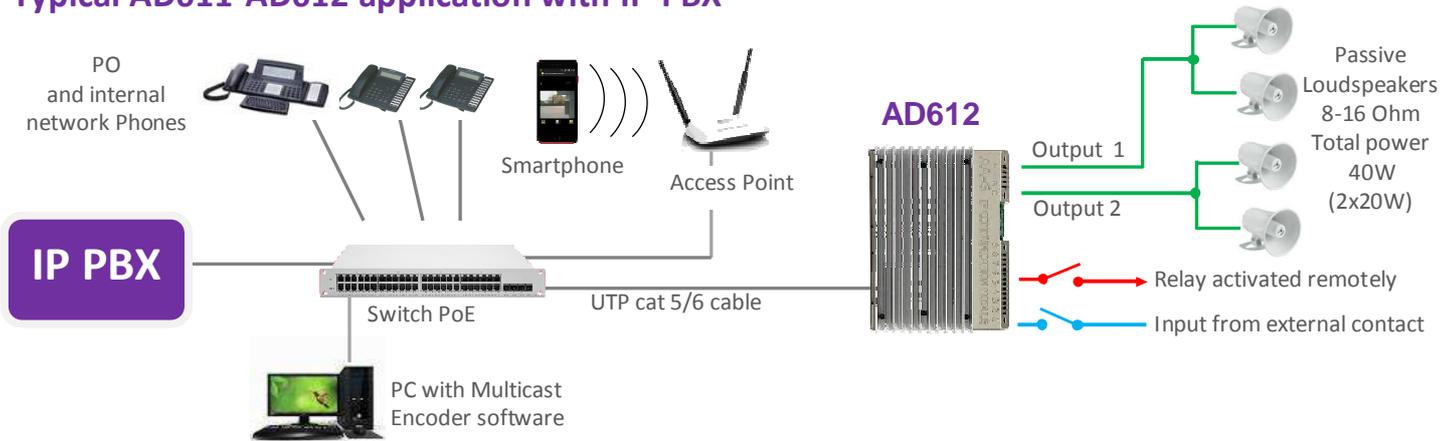
Applications

- ◆ Adapting of paging PA systems on the LAN
- ◆ Amplified telephone call repeater (Night Ringer)
- ◆ Sending of pre-recorded voice ads on loudspeakers network
- ◆ "Fair" alarm button, security phone call
- ◆ Remote Relay Web Control and drives via LAN
- ◆ Deterrent alerts in video surveillance systems
- ◆ Multicast on all installed systems, from all over the world

Target

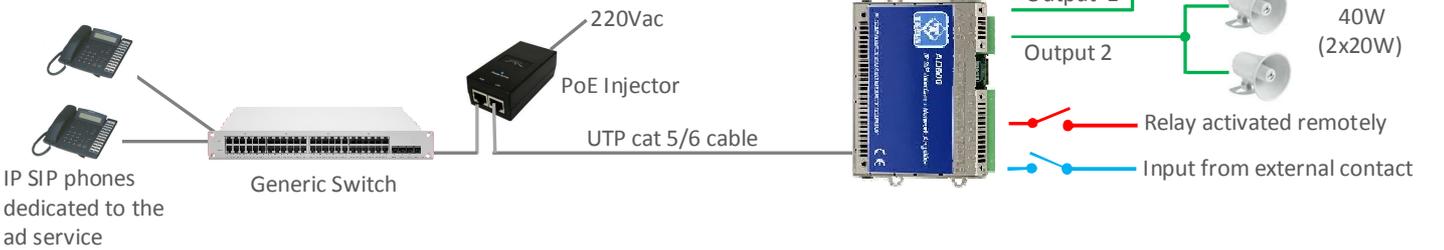
- ◆ Companies, Industry, Banks, Stores, Shopping Centers
- ◆ Hospitals, Schools, Spaces Open to the Public, Sports Facilities
- ◆ Hotel, Parking, Train Stations, Ports, Airports

Typical AD611-AD612 application with IP-PBX



AD611-AD612 Peer to Peer Application, without PBX

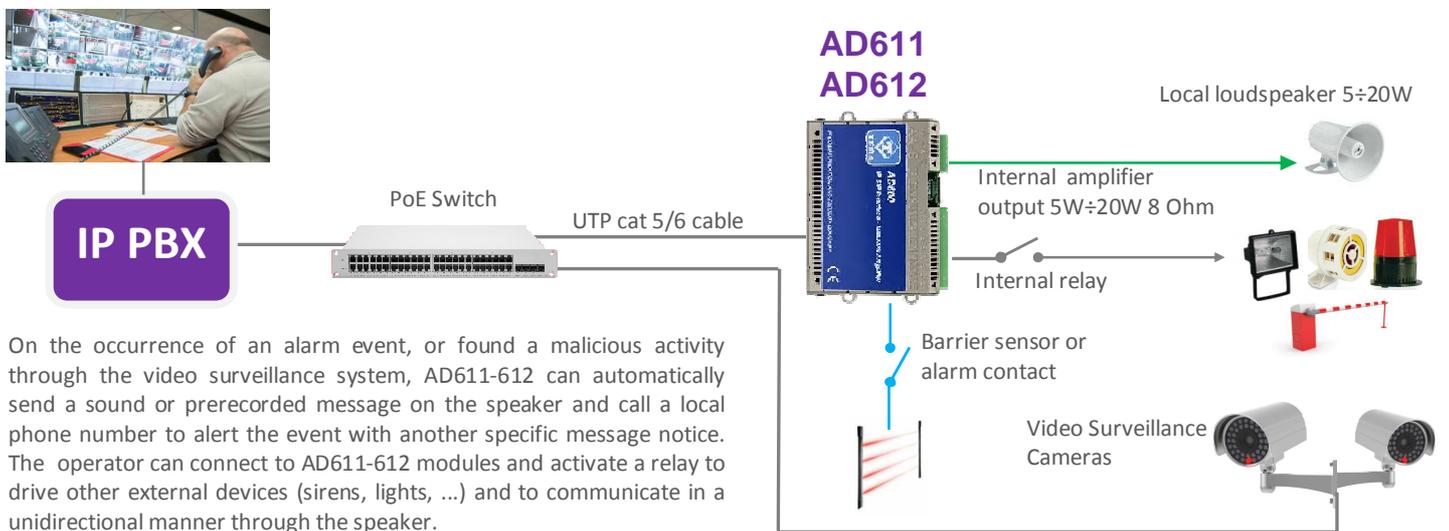
In the absence of an IP-PBX the AD611-AD612 modules can also operate in a Peer to Peer (Point-to-Point) in a LAN network by simply inserting a generic switch and one or more SIP phones. The power supply to AD611-AD612 systems can be provided from the switch (if PoE), by an external power supply or a PoE injector inserted in the LAN cable. An internal relay signals the presence of an ad and remains closed for the duration of the same. Upon detection of a fault in the amplifier AD611-612 a scheduled phone calls and communicates an alarm voice message. The message can be customized by the user.



NEW!

Other applications of the SIP modules AD611-AD612

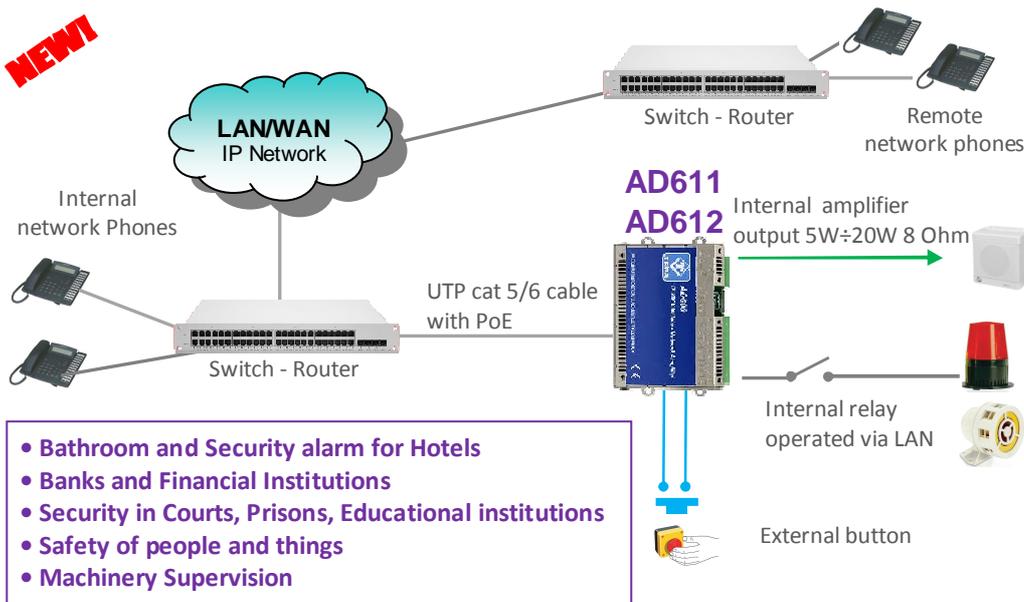
• Sounds and warning messages / deterrence in Video Surveillance plants



On the occurrence of an alarm event, or found a malicious activity through the video surveillance system, AD611-612 can automatically send a sound or prerecorded message on the speaker and call a local phone number to alert the event with another specific message notice. The operator can connect to AD611-612 modules and activate a relay to drive other external devices (sirens, lights, ...) and to communicate in a unidirectional manner through the speaker.

• SIP SECURITY INFO CALL

NEW!



- Bathroom and Security alarm for Hotels
- Banks and Financial Institutions
- Security in Courts, Prisons, Educational institutions
- Safety of people and things
- Machinery Supervision

By connecting a **button** or an **external contact**, AD611-612 can call a phone number programmed to alert the event with a warning specific message.

The remote operator can acknowledge the event and break the repetition with a code, also can remotely activate a relay. By connecting a speaker to AD611-612 it is possible to play a message or a pre-recorded sound file before sending the call.

This function is ideal in all those cases of **emergency**, call for help or information, alarm systems, video surveillance, machine controls etc. in any geographical point of the network. The service can be used in a "fair" way by banks and security services with an hidden button.

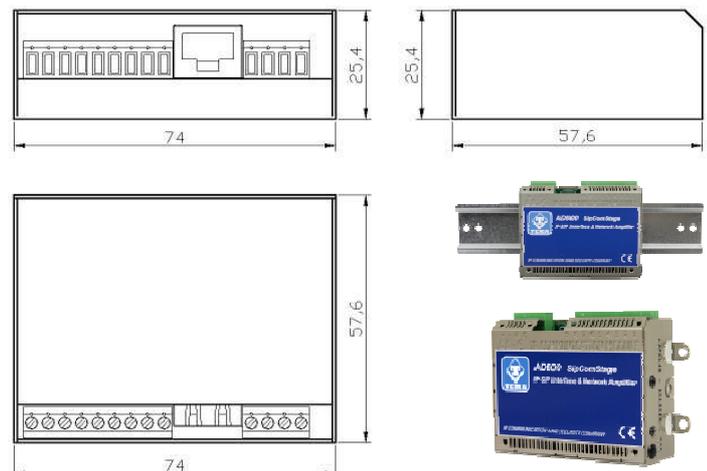
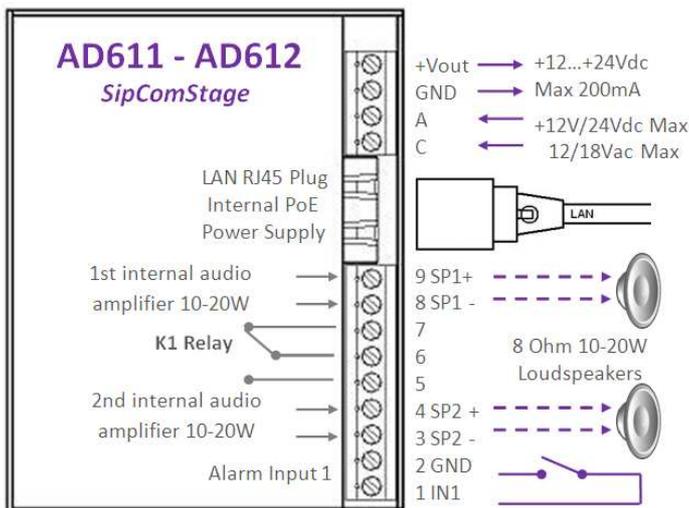
• Multicast Audio Streaming for Paging

Each AD611-612 with its own speaker is accessible from IP-PBX registered SIP phones and smartphones that can launch an ad. With the help of an encoder TEMA AD615 it is possible to stream music on multicast channels managed by AD611-612, the music is taken in analogue audio from the PC (or any audio player) and sent to the Encoder that will redistribute on the LAN. The announcement from a SIP call to a specific AD611-612 device will stop the music that will be automatically restored at the end.

Note: the function is an alternative to basic services specified in the figures 1-2.



AD611- AD612 connections, dimensions



Technical Features

LAN:	TCP/IP Network 10/100BaseTx
Protocols:	SIP 2.0, RFC 3261
Power Supply:	PoE, PoE Injector and/or ext Ac/Dc power supply
PoE:	802.3af class 0 12,95W
External Power Supply (Opt.):	230Vac/12-24Vdc-1A
Connection:	SIP Server (IP-PBX) or P2P (Peer To Peer)
Messages/Sounds:	pre-recorded into the internal SD memory card
Audio File Format:	Windows .wav 8KHz - 16 bit
Duration:	16sec each. standard (Option 8 minutes each.)
Technology:	IMX25 400MHz microprocessor
Memory:	256MB Ram, Micro-SD Flash 2GB
Relay contacts capacity:	max 30Vdc - 1.5A
Audio Amplifier:	AD611 10W (2 x 5W) - AD612 40W (2 x 20W)
Impedance:	8 Ohm
Bandwidth:	80Hz – 20KHz
Audio Communication:	Unidirectional
Multicast Audio Streaming:	G711μ, G711a, G722, L16 16 / 44 kHz
Inputs from buttons or external commands:	1
Acoustic signals:	call tone, Ding-dong announcement
Smartphone APP:	iOS, Android
Programming:	user-friendly web interface and password
Installation:	table, wall, DIN rail
Storage temperature:	from -20° to +65°C
Operating temperature:	from -20° to +55°C
Relative Umidity:	up to 95% non-condensing
Dimensions:	74x58x25mm (AD611) - 74x58x35mm (AD612)
Weight:	160gr/180gr
Warranty:	2 years, possibility of extension (Option)
Compatibility:	CE, ROHS

Optional Accessories



AA-39DL 220Vac/12Vdc-1,0A Power Supply



AA-39D1A DIN Power Supply 220Vca/ 15Vcc-1,0A
AA-39E3 DIN Power Supply 220Vca/ 24Vcc-1,5A
AA-39E6V DIN Power Supply 220Vca/ 24Vcc-2,5A



AA-39P4 PoE injector 230Vac/ 48Vdc-0,5A



AA-36 Protected Power Relay Actuator
 250Vac / 16A / 4KVA, command in AC / DC 12V / 24V, 1 contact, Led, contacts protected by electric arcs.



AD301R 30W Amplifier, 2 channels, Base version, Volume-High-Low +/-12dB controls



AD320/30 PA 100V line transformer 30W, constant voltage, high efficiency toroidal type with low magnetic flux leakage.



AD32 Isolation transformer, balancing mixer, attenuator, audio filter, low-impedance output.



AD-330/xx Are available Speakers of different power, Horns and Loudspeakers for flush and ceiling mount.



Packing List

- 1 AD611 or AD612 IP VoIP SIP Interface
- 1 Printed technical manual
- 1 CD-ROM con documentazione completa
- 1 Cavo UTP Patch Cord LAN 1,5 metri
- 1 DIN rail kit (plastic adapter, 2 screws and 2 washers for fixing the unit, DIN bracket, 2 dowels and screws), 4 self-adhesive feet

Products tested with most popular PBXs on the market:

SIEMENS - AVAYA - ALCATEL - PANASONIC - SAMSUNG - NEC
 3CX - WILDIX - AASTRA - ASCOM - VT NITSUKO - SELTA - PHILIPS
 ... and many more brands and IP-PBX models

Other products from x600 series "SipComStage"



AD610

IP-SIP PoE amplifier 2x2W, adapter for external amplifiers with audio transformer, multifunction



AD615/S

Audio encoder from analog to digital on network LAN into Multicast/Broadcast channels

"SipComPoint"



AA-600

2-way Intercom IP-SIP PoE with 4W-10W-20W internal amplifier (choice)

"IP COMMUNICATION AND SECURITY COMPANY"