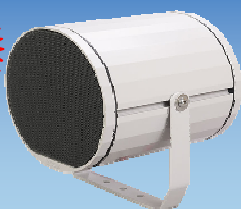


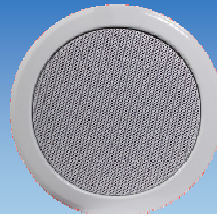
AD634



AD633C



AD633



AD630



AD635



- Internal amplifier from 12 to 40W
- SIP and PoE support
- Two-way audio – internal microphone
- 2nd SIP Account for night ringer
- Output for 2nd passive Loudspeaker
- APP for iOS and Android smartphones
- Alarm inputs and relay outputs

Far beyond the limits of classic analog Public Address solutions

Network LAN speakers for PA Paging and communication

IP SIP speakers AD630 series are devices to be connected in a LAN for the PA (Public Address) sound diffusion of ads, speech and music, in offices, factories, public places and outdoor. The internal circuits incorporate a PoE power supply (Power over Ethernet) for direct power over UTP cable, but also allow input from an external power supply at 230Vac/12-24Vdc. The two power supply types can coexist in order to increase the safety of the service.

The devices are also two-way communication systems because they incorporate a microphone with the dual local listening function and control of the speaker functionality.

Power Amplifier Technology

Class "D" Amplifier with high efficiency and low consumption. The maximum output power is 2x20 or 2x6W W 8 ohms (depending on the model) with high sound quality. The amplifier is self-protected against overload and short circuit output power. It is provided a second auxiliary output which can be brought to another passive speaker to better distribute the output power or to generate a 100V-20W or 100V-6W (depending on the model) PA line.

Pre-recorded messages

In the internal SD card are recorded sounds and messages for automatic or command sending onto speaker, also automatically at pre-set times.

iOS and Android APP

Free download APP are available for smartphones with operating systems iOS and Android. With these applications it is possible to operate with the IP speakers and launch announcements even from smartphones.



Integration with VoIP SIP phone systems

AD600 can be perfectly integrated with VoIP telephone systems (IP-PBX) with SIP protocol and can be registered as a regular VoIP phone or P2P (Peer to Peer) without a PBX.



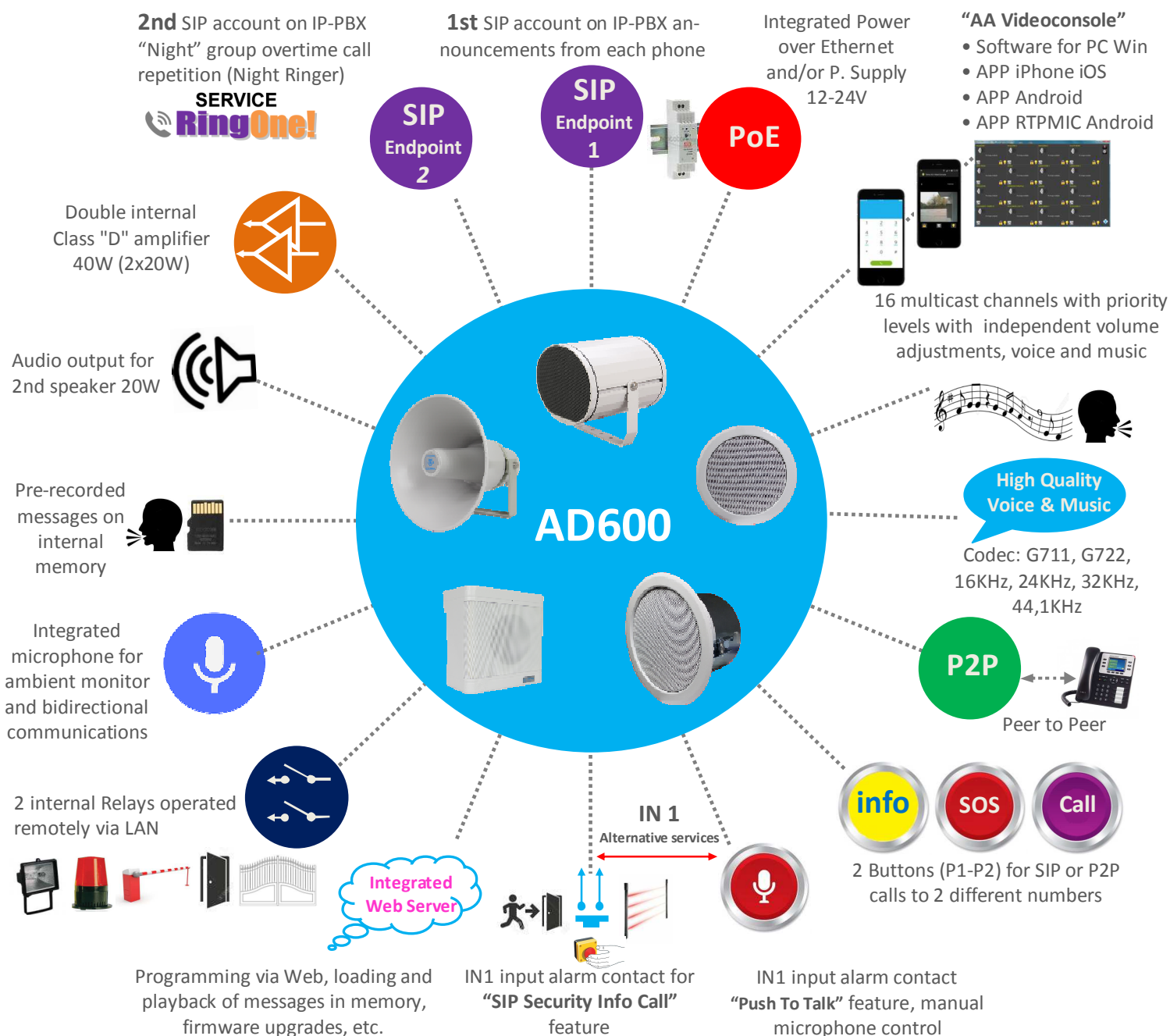
Applications, Target

- ♦ Video surveillance: warning deterrence to malicious people under video control area
- ♦ Companies, Offices, Factories, Warehouses, Industry
- ♦ Warehouses, Garage, Supermarket, Parking
- ♦ Outdoor public areas
- ♦ Alarm and warning systems
- ♦ Hospitals, Schools, Campus, Sports facilities
- ♦ Railway Stations, Airports, Ports

SipComStage

The Revolution in IP Paging Systems

...Far beyond the limits of classic analog Public Address solutions...



High quality sound system

The used components guarantee the audio quality format from pure phone quality to the highest music CD quality with 22kHz bandwidth.

Highly reliable

The components used in the AD600 devices classified with IP65 protection are highly reliable and resistant to humidity, suitable for use even in difficult environmental conditions.

Easy scalable system

Expansion or modification of the installation is particularly simple as all systems are integrated into the LAN and the power is distributed and not centralized by a single amplifier.

Bidirectional Communications

With SipComStage speakers it is possible handsfree talking because they are equipped with an integrated microphone that allows SIP telephone call with bidirectional communication, both with terminals registered in IP-PBX and stand alone in P2P (Peer to Peer).

2 SIP Accounts

The devices are equipped with 2 SIP accounts, the first (main) is used for normal communications from any corporate network phone and any technology (SIP, Analog, Cordless, Wi-Fi, Softphone, etc.).

The 2nd Account is used to be included in the group numbers for night service to repeat the incoming phone call by playing a standard sound or an user-customizable file that can be easily loaded into the system, even remotely via LAN via thanks to the integrated Web Server.

Perfect integration with the IP-PBX system

Verified compatibility with all major brands and models of IP-PBX on the market.



SIEMENS - AVAYA - ALCATEL – PANASONIC –
SAMSUNG – NEC - 3CX - WILDIX - AASTRA -
ASCOM - VT NITSUKO - SELTA – PHILIPS - ZYCOO
... and other IP-PBX brands
including SOFTPHONE and ASTERISK-based
systems

Ideal integration with the Security and Video Surveillance System

The AD630 SipComStage series expands the security level of IP surveillance systems and allows to audio monitor each location and take action with deterrence messages if necessary.

Innovative features

- Launch of PA ads from any phone by calling the account of the IP SIP Speaker or the IP address IP (P2P)
- Security code from keyboard to start the announcement
- 2nd SIP accounts night call repeater function, sounds files freely customizable and remotely loadable
- Output for 2nd passive speaker 20W or 6W 8 Ohm (depending on the model) to extend the served area or to generate a 100V-20W or 100V-6W audio line (depending on the model)
- Double internal audio amplifier 2x20W or 2x6W (maximum output power using external power supply)
- PoE (Power over Ethernet) 802.af standard, only one cable connection
- 2 internal relays for external devices drives via LAN
- 16 Multicast channels for broadcasting background music, silenced by ads, also in high quality (Linear Codec 44,1kHz)
- Volumes adjustable separately for all available audio channels: Multicast/Announcements/Ringer
- Internal microphone for environment listening (Monitor) and bidirectional communication
- 1 alarm trigger input for one of the alternate functions:
 - a) Generate a phone call and sends a message of alert (SIP SECURITY INFO CALL)
 - b) Pre-recorded announcements launch from the speaker (Notice/Deterrence)
 - c) "Push to Talk" feature for phone communication driven by local external button (not included)
- 2 inputs for external call buttons to 2 programmable SIP numbers or IP addresses
- LAN P2P (Peer to Peer) operation even without PBX
- Remote programming via integrated LAN Web Server
- Automatic broadcast of announcements to predefined times
- Possibility for the user to easily customize pre-recorded messages and load them in the system via LAN
- Activation of external light signals
- Individually addressable and configurable units via LAN / WAN
- Easy configuration for diversified groups for both background music and announcements

Common Technical Features

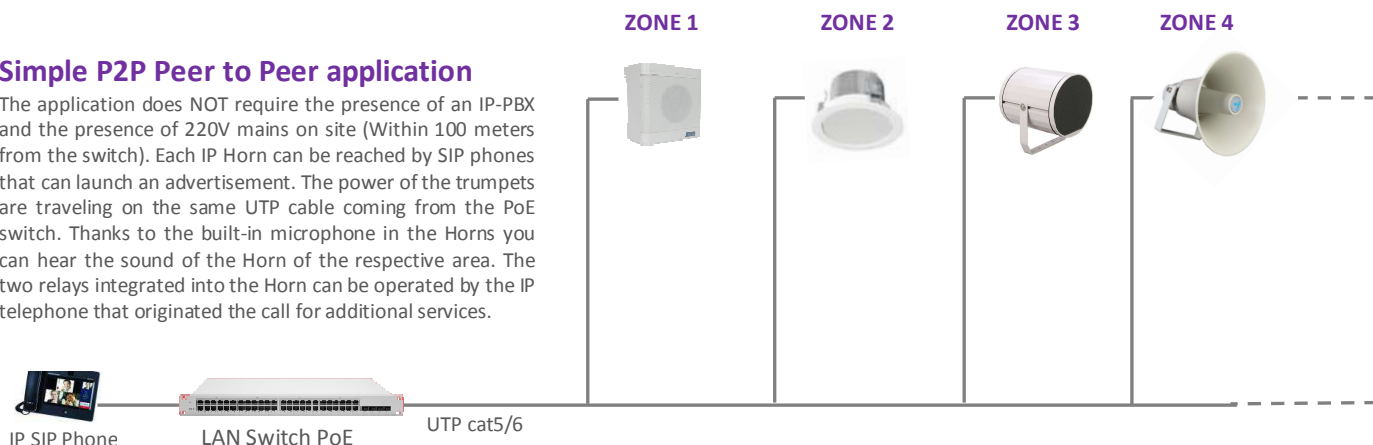
LAN, protocols:	TCP/IP Network 10/100BaseTx, SIP 2.0
Power Supply:	12-24Vdc with PoE, Injector or ext. P. Supply
PoE:	802.3af classe 0 12,95W
External Power Supply (Opt.):	230Vac/12-24Vdc-1-2A
Inputs from external alarm commands:	1
Inputs for diversified SIP call buttons:	2
Relè interni comandabili via LAN:	2
Internal relays manageable via LAN:	2
Cpu:	IMX25 400MHz processor
Memory:	256MB Ram, Micro-SD Flash 2GB
Messages/Sounds:	pre-recorded into the internal SD
Operating temperature:	from -20° to +55°C
Storage temperature:	from -20° to +65°C
Umidity:	up to 100%
Installation:	wall mount, ceiling mount

Audio Amplifier:	"D" Class, power from 10W to 40W
Acoustic unit impedance:	8 Ohm
Internal Microphone:	omnidirectional electret 30Hz-18KHz
Multicast RTP Audio Streaming:	G.711 a-Law, μ -Law, G722 Linear 16kHz, 24kHz, 32kHz, 44,1kHz
Audio Communication:	Unidirectional and Bidirectional
Additional speakers:	1 passive speaker 8 Ohm
SIP Account:	2 accounts for calls and night call repeater
Connection:	SIP Server (IPPBX) or P2P (Peer To Peer)
Smartphone APP:	iOS, Android
Centralized PC Software:	AA VideoConsole
Signalings:	Active call led and tones
Programming:	user-friendly web interface and passwords
Warranty:	2 years, possibility of extension (option)
Origin:	entirely developed and manufactured in Italy
Compatibility:	CE, ROHS

Model					
Acoustic features	AD630	AD634	AD633C	AD633	AD635
Power (with external power supply)	40W (2x20W)	40W (2x20W)	12W (2x6W)	12W (2x6W)	12W (2x6W)
Power (with PoE power supply)	10W	10W	10W	10W	10W
Loudspeaker Impedance (Ohm)	8 Ohm	8 Ohm	8 Ohm	8 Ohm	8 Ohm
Bandwidth (Hz)	300 – 7.000	150 – 15.000	80 – 20.000	80 – 15.000	180 – 16.000
Max sound pressure SPL/1m	117dB	105dB	105dB	102dB	100dB
Dispersion angle	100° @2KHz	100° @2KHz	130° @2KHz	160° @2KHz	110° @2KHz
Dimensions (mm)	240x290	180x145x178	220x160	200x92	218x216x120
Mounting hole (mm)	-	-	200...205	160...165	-
Weight (Kg)	2,1	2,5	1,8	1,1	1,5
Degree of protection	IP65	IP65	IP54	IP20	IP20
Housing material, body	Alluminum and ABS	Die-cast aluminum	With flameproof cover	Supporting metal ring	UV stabilized plastic, metal grid
Installation	Indoor/ Outdoor	Indoor/ Outdoor	Indoor	Indoor	Indoor

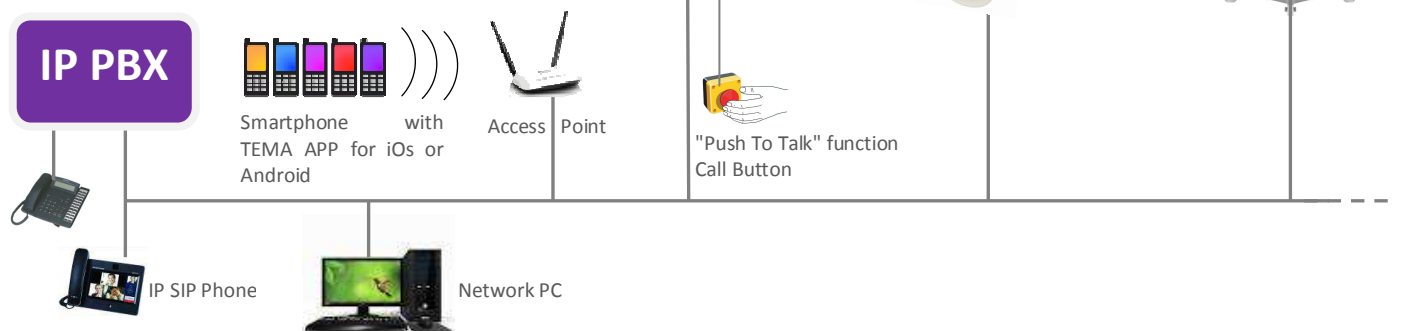
Simple P2P Peer to Peer application

The application does NOT require the presence of an IP-PBX and the presence of 220V mains on site (Within 100 meters from the switch). Each IP Horn can be reached by SIP phones that can launch an advertisement. The power of the trumpets are traveling on the same UTP cable coming from the PoE LAN switch. Thanks to the built-in microphone in the Horns you can hear the sound of the Horn of the respective area. The two relays integrated into the Horn can be operated by the IP telephone that originated the call for additional services.

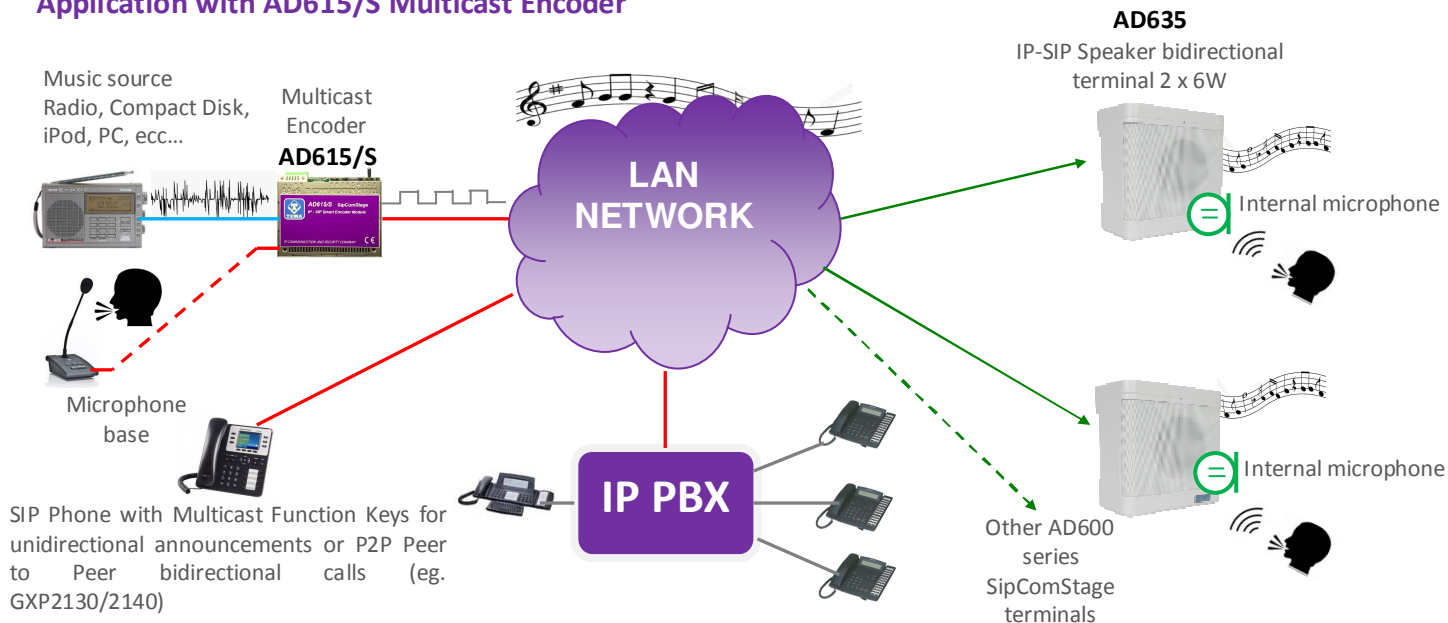


Application with IP-PBX or Peer to Peer

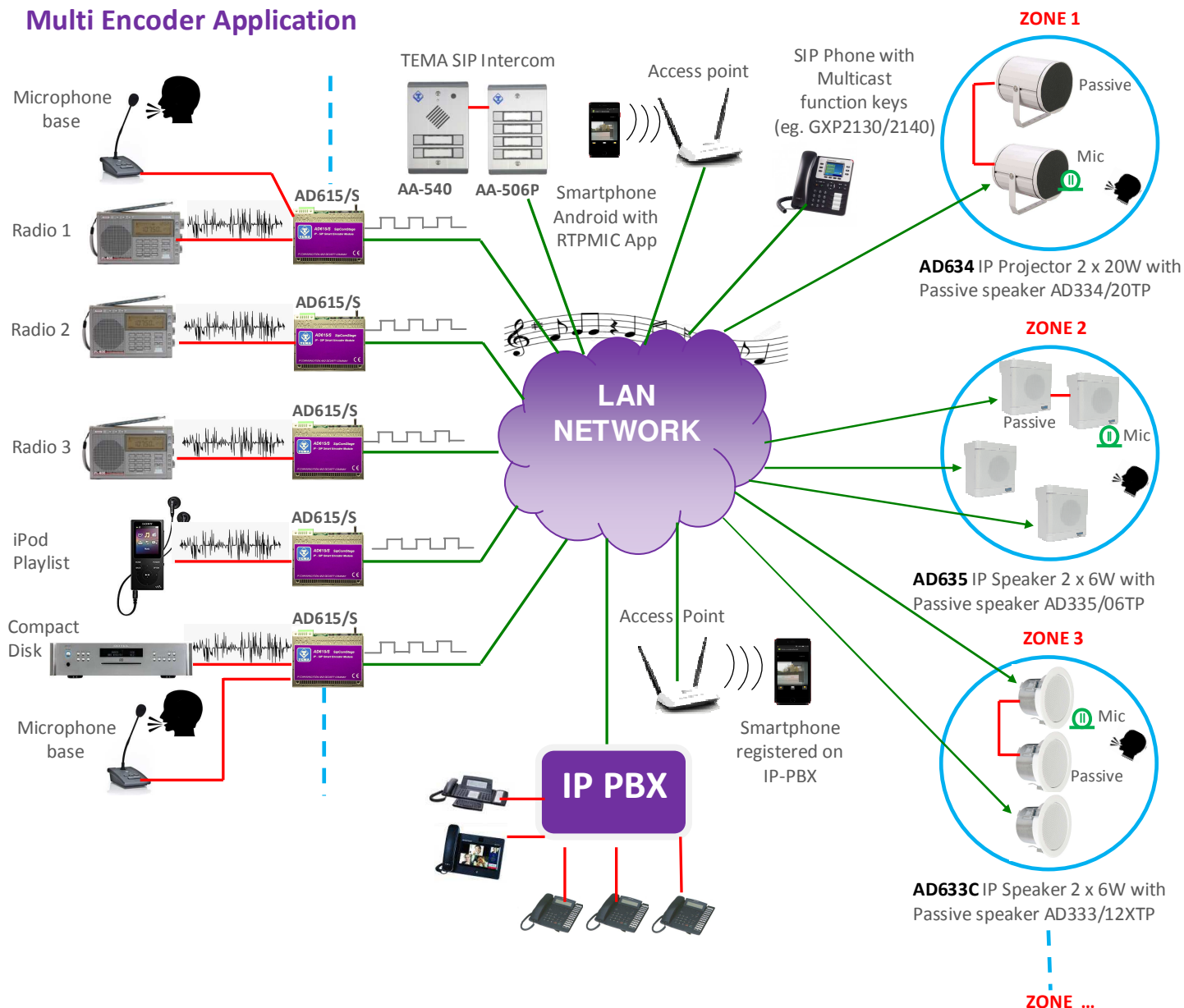
Each IP Horn can be reached from SIP phones, Smartphone and other registered terminals in the IP-PBX that can launch ads. The integrated relay can be operated from the SIP phone that originated the call. With a Network PC with installed the free software TEMA "Videoconsole" it is possible to make calls to IP speakers. If the free software "VLC" is also installed, it will be possible to send on Streaming Audio speakers multicast channels, interrupted by ads as background music. In each AD600 series speaker, it is possible to independently adjust the audio volume reproduced via LAN thanks to the integrated web server.



Application with AD615/S Multicast Encoder



Multi Encoder Application



It is possible to connect more AD615/S encoders into the network, each of which transmits an audio stream on a channel identified by a specific Multicast address, in this way the AD630 series IP-SIP speakers equipped with 16 Multicast receiving channels can tune into different music content different depending on the need and preferences of the environments to be sounded.

Information announcements launched from microphone bases can reach all AD630 terminals or, alternatively, only a part of them.

The example also shows the ability to use the 2nd internal amplifier (integrated into IP speakers) to connect the respective passive speaker to extend the sound in the area to be served.

There are no limits on the number of AD600 series IP-SIP amplified speakers connected in the LAN, in this way it is possible to realize PA-IP Paging plants of any size with distributed power, without the use of expensive cables and without centralized audio amplifiers, without limits for the launch of warning announcements.

Multi Encoder application performances

- Music in different multicast channels according to zone preferences
- Warning messages Multicast from microphone on all zones
- Warning messages Multicast from microphone by zones
- Multicast messages from AA-500 series IP-SIP TEMA Intercoms
- Multicast messages from Android Smartphones with APP RTPMic
- Multicast messages from suitable SIP phone with function keys

Additional services in presence of IP-PBX

- Bidirectional telephone call on SIP speakers
- One-way telephone call
- Phone call from Smartphones registered on the IP-PBX

Other products and accessories

SipComStage



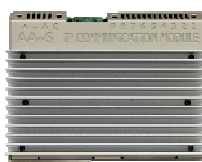
AD610

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



AD611

IP-SIP PoE 10W Amplifier
(2x5W) and Multifunction
VoIP interface



AD612

IP-SIP PoE 40W Amplifier (2X20W)
and Multifunction
VoIP interface



AD615/S

Audio encoder from analog to
digital on network LAN into
Multicast channels
Codec: G711, G722, Linear
16kHz, 24kHz, 32kHz



AD696/BM

External Microphone Base
with "Talk" button



AA-39DL

Plug Power Supply
220Vac/12Vdc-1,0A



AA-39D1A

DIN Power Supply
220Vac/15Vdc-1,0A.



AA-39P4

PoE injector 230Vac/48Vdc 0,5A



AA-39E3 (30W)

DIN Power Supply
220Vac/24Vdc-1,25A



AA-39E6V (60W)

DIN Power Supply
220Vac/24Vdc-2,5A



AD301R

Analog Amplifier 30W, Volume-
High-Low controls +/-12dB.



AD320/30

PA 100V audio line transformer
30W, constant voltage, high
efficiency, toroidal type



AD32

Isolation transformer, balanced,
mixer, attenuator,
audio signal filter



AA-36

Power Relay Actuator
250Vac/16A/4KVA,
AC/DC 12V/24V command,
1 contact



AA-699x

Flash lights with Xeon lamp or
high brightness LEDs



AD330/25T

Passive Horn Speaker 8 Ohm
25W with 100V audio line
transformer



AD334/20TP

Passive Speaker 8 Ohm 20W
with 100V audio line
Transformer



AD333/12XTP

Passive Speaker 8 Ohm 12W with
flameproof cover and 100V audio
line transformer



AD333/12TP

Passive Speaker 8 Ohm 12W
with 100V audio line
transformer



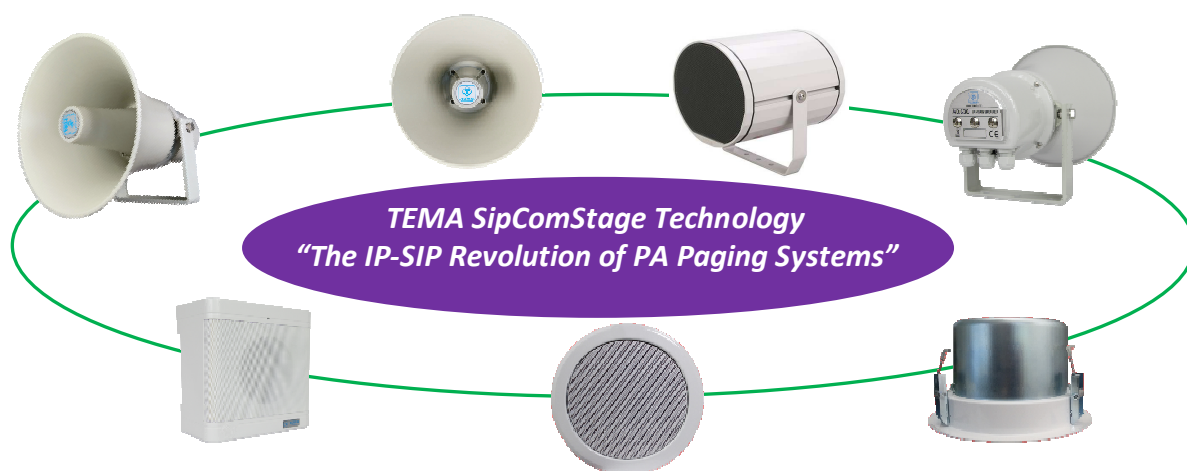
AD335/06TP

Passive Speaker 8 Ohm 6W with
100V audio line transformer

Customer Support

TEMA offers advice and his expertise to the client to facilitate the design of new installations or retrofit old plants. Do not hesitate to contact us for any request.

- ◆ On-Site inspection and acoustic noise measurement
- ◆ Project based on the environment planimetry and service specifications
- ◆ After-sales service
- ◆ Continuous products and software updates
- ◆ 24-months warranty on the supplied products



TEMA TELECOMUNICAZIONI, founded in 1988 by professionals of the sector, is a leader in the design and manufacture of special systems and services for Fixed and Mobile Telecommunications and Security. The research and development laboratories in Milan, where it is invested more than 15% of sales, are equipped with advanced equipment and skilled personnel in microprocessor technology, hardware-software, programming languages, audio synthesis and Voice-Audio-video processing, LAN technologies, VoIP, Wireless. The company's purpose is to give complete customer satisfaction, continuous improvement of product performance and to offer an excellent technical support service, for that is **UNI EN ISO 9001:2015 quality certified**.

To date **TEMA TELECOMUNICAZIONI** can claim an installed base of hundreds of thousands of devices and peripherals integrated with protocols of most major brands of PBX and other special systems for Telecommunications and Security.

Operation is ensured at national level through telephone installers and trusted resellers, with technical and commercial support from both the Milan Headquarter office and Rome Branch office. It also organizes regular technical and commercial training courses. The company's revenue is divided between the domestic market and foreign market with exports percentages rising in recent years.