



SipComStage

NETWORK AUDIO

Audio over IP SIP integrated for a world that asks more!
... Far beyond the limits of classic analog solutions ...

Network Speakers for Communications, PA Audio Paging, Security

The AD600 series IP SIP loudspeakers and modules are advanced and smart devices that can be connected in a standard LAN for bi-directional communications and public broadcasting (PA-Audio Paging) of announcements, speech and music, in offices, factories, public and outdoor venues.

The systems do not require power supplies since they are equipped with PoE (Power over Ethernet) to be powered directly on the UTP cable.

The built-in microphone makes it possible to establish bi-directional hands-free communication with the people on site.

The double class "D" high efficiency internal audio amplifier allows to deliver powers from 2x6W, 2x20W, 1x40W, depending on the models.

Integration with IP-PBX and Security system

The AD630 series active loudspeakers integrate perfectly with any type of VoIP SIP PBX on the market and can be easily programmed in the same way as a normal SIP VoIP telephone. The P2P protocol (Peer-to-Peer) for calls without PBX is also supported.

Pre-recorded messages

Sounds and messages are recorded in the internal memory for automatic or external command sending, even automatically at set times.

"ADAM" centralized management software

Audio Domain & Access Management is a software that allows you to monitor and interact with all the systems on the network. Transform a PC into a control station with a 16 to 256 zone microphone console for multicast announcements or P2P phone calls.



APP for iOS and Android Smartphones, API interface

With the free Tema Apps it is possible to work with IP speakers on the network and launch announcements even from any Smartphone/Tablet. With API interface is possible to manage devices through external software.

Target

- ◆ Companies, Offices, Plants, Industry
- ◆ Video surveillance: warnings of dissuasion and security
- ◆ Warehouses, Garage, Supermarket, Parking
- ◆ Public outdoor areas, Schools, Campuses
- ◆ Railway Stations, Airports, Ports, Ships
- ◆ Hospitals, Clinics, Retirement Homes
- ◆ Sports Facilities, Wellness Centers and Fitness
- ◆ Alarm and Emergency Systems



Infinite applications in every sector: civil, commercial, industrial



Schools: broadcast of service and security announcements, start/end lessons announcements, broadcast of multimedia contents, interactive room lessons. Anti-panic and emergency function.

Commercial exercises: background music, scheduled promotional announcements or immediate broadcast, public information notices.



In a video surveillance center, when a suspicious activity is detected through the cameras, the operator can activate deterrent announcements or send a message directly. Thanks to the microphone incorporated in the systems, he can listen to the external environment and speak in person with the present people.

Service announcements in hospitals, specialist clinics, nursing homes, people search, public information broadcast in waiting rooms.



Broadcast of sound and safety announcements in industrial plants, factories, production halls, chemical plants.



Broadcast of service and safety announcements in specific offices by work area, repetition of out-of-hours telephone calls, background music.



Fitness and Wellness Centers: differentiated music by activity areas, service announcements, multimedia content broadcast, internet radio.



In the railway and underground stations messages about arrivals/departures and information of warning and utility to the passengers.



Why an innovative "SipComStage" Audio IP system over LAN?

Scalability

From the smallest to the largest system, the passage only involves the availability of the PoE LAN network socket where to connect the new AD600 series active sound diffusion unit. No centralized amplifier, no battery, no new network cable. The expansion of the plant is simple since the systems are networked and the power will be distributed according to the area to be served.

Flexibility

Reliability

The AD600 series has been designed for H24/365 operation, can be powered via PoE on the same LAN cable as the data, can be remotely controlled thanks to the integrated Web server and advanced management software Tema ADAM. Are available products with IP66 protection suitable for use even in difficult environmental conditions.

PoE Power Supply

Easy to use

In addition to the simplicity of installation and commissioning, SipComStage systems also differ in ease of use, very intuitive and extremely easy to manage the plant, from any geographical location, with practically zero costs in terms of management and maintenance.

Easy to manage

Built-in microphone

With SipComStage speakers it is possible to "speak" hands-free as they are equipped with a built-in microphone that allows two-way communication following a SIP phone call, both with terminals registered in the IP-PBX and stand-alone in P2P (Peer-to-Peer).

2-way Communications

Integrated with IP-PBX

Compatibility has been verified with all the major IP-PBX brands and models on the market today

Double SIP Account

2nd SIP account: the 1st for normal communications from any telephone in the network and any technology (SIP phones, Analog Phones, Cordless, Wi-Fi, Soft-phone, etc.). The 2nd account is used to be inserted in the group of numbers for night service to repeat the incoming telephone call by issuing a standard or user-customizable sound that can be easily loaded into the system.



Security

SipComStage greatly elevates the security level of IP alarm and video surveillance systems and allows audio monitoring of each location and sending deterrent messages in case of need.

High Sound Quality

The used components guarantee audio reproduction in formats selectable from the G711/G722 phone quality to the highest quality of music with 44.1KHZ CD sampling.

GSM/SMS Operation

With special Tema catalog interfaces it is possible to operate with an AD600 system also through the GSM network with direct calls or activation of announcements, relays and commands with the sending of specific SMS.

CE Certification

All products comply with European standards in terms of emissions, immunity and electrical safety.



Tested with the most popular PBX brands:

SIEMENS/UNIFY - AVAYA - ALCATEL - PANASONIC - SAMSUNG - NEC - 3CX - LG ERICSSON - WILDIX - AASTRA - ASCOM - NITSUKO - SELTA - PHILIPS - MITEL - YEASTAR - ZYCOO - CISCO - EPYGI - ELASTIX - GRANDSTREAM - SHORETEL - NORTEL - SWYX - XORCOM - ASTERISK SOFTPHONE BASED SYSTEMS

MADE IN ITALY

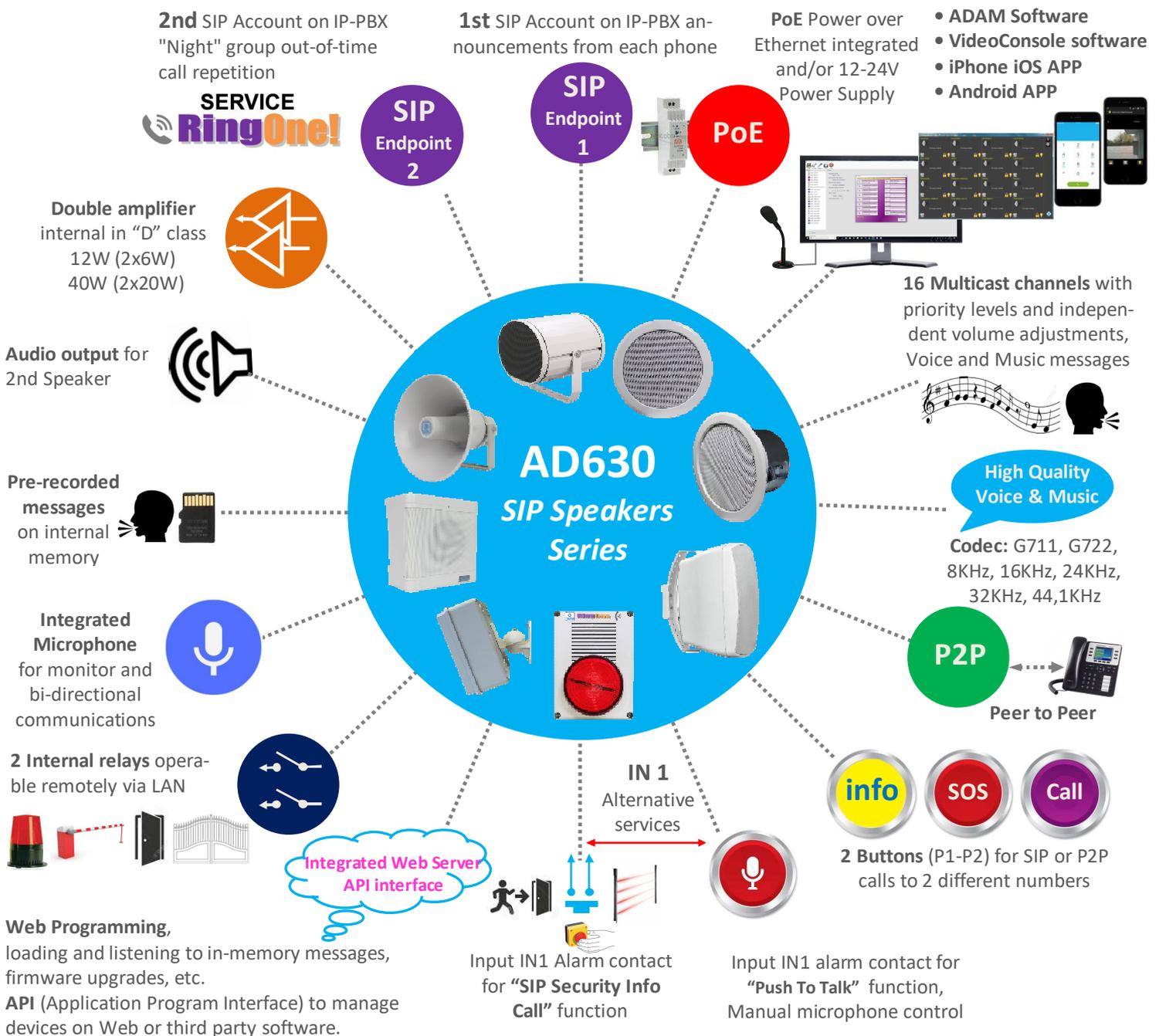
All products are designed and built with the latest technology in Italy by TEMA which guarantees the support and technical assistance over time.

TEMA is a certified company





The revolution of IP-SIP audio systems over LAN



Innovative features that make the SipComStage system unique in the world!

- Announcement broadcast from each phone by calling the IP speaker SIP account or IP address (P2P)
- Keyboard security code to start the announcement
- 2nd SIP account for night call repeater function, sounds easily customizable by the user
- Output for 2nd passive speaker in order to extend the served area, double the sound power or generate a constant 100V audio line
- Dual audio amplifier
- PoE (Power over Ethernet), a single connection cable
- 2 Internal relays for drives via LAN of external devices
- 16 Multicast channels in reception for broadcasting background music, silenced by announcements, in high quality with linear 16bit codec up to 44.1KHz
- Volume adjustable separately for all available audio channels: Multicast/Announcements/Ringtone
- Internal microphone for bi-directional communications
- 1 alarm input for one of the alternative functions:
 - a) Generates a phone call and sends a warning message ("SIP SECURITY INFO CALL" function)
 - b) Broadcast of pre-recorded announcements in the internal systems memory for Alert/Dissuasion
 - c) "Push to Talk" function for bidirectional communications driven by an external local button
- 2 external push-button inputs for telephone calls with 2 SIP numbers or programmable IP addresses
- Operation in P2P (Peer to Peer) even without PBX
- Remote programming via LAN, integrated Web Server, access with security password
- Automatic broadcast of announcements at set times daily, weekly, or with an annual calendar that can be programmed in a file and imported from the system
- Easily customize pre-recorded messages and upload them via LAN to the system
- Activation of external light signals
- Individually addressable and configurable units via LAN/WAN
- Easy group configuration for diversification of both background music and announcements
- Mobility and complete interchangeability of AD600 series SIP IP terminals
- Transmission of announcements remotely via the GSM/UMTS network, activation also by encrypted SMS
- "Delayed" Announcements broadcast : call the terminal, recording, hang up, the announcement is Broadcasted
- Routing Multicast of SIP calls, Master-Slave configuration
- "VideoConsole" Management Software for Windows PCs provided free of charge
- APP for iOS and Android Smartphone provided free of charge, API (Application Program Interface)
- ADAM: Audio Domain & Access Management, advanced software for Windows PCs for centralized management of all SipComStage and SipComPoint IP terminals in LAN, 16 to 256 multicast microphone console, SIP telephone calls to and from each terminal.



The most complete range of IP SIP Speakers for all needs

Model									
Features	AD630S	AD630SA	AD630 SAL	AD634	AD638W AD638B	AD633	AD635	AD639	AD639SR
Power (ext. pwr supply) 24Vdc-2A / 18Vac-2,5A	40W (2x20W)	40W (2x20W)	20W	40W (2x20W)	40W (2x20W)	12W (2x6W)	12W (2x6W)	12W (2x6W)	30W
Power(PoE supply)	10W	10W	10W	10W	10W	10W	10W	10W	10W
RX Multicast Channels	16	16	16	16	16	16	16	16	1
N. audio int. Memories	9	9	9	6	6	6	6	6	2
Internal Microphone	YES	YES	NO	YES	YES	YES	YES	YES	NO
Bandwidth (Hz)	300 7.000	300 7.000	300 7.000	150 15.000	50 20.000	80 15.000	180 16.000	180 16.000	350 5.800
Max Acoustic pressure SPL Pnom/1mf	120dB	120dB	117dB	105dB	104dB	103dB	100dB	98dB	109dB
Dispersion angle	100° @2KHz	100° @2KHz	100° @2KHz	100° @2KHz	170° @2KHz	160° @2KHz	110° @2KHz	150° @2KHz	150° @2KHz
Dimensions (mm)	240x290	240x290	240x290	180x145 x178	163x160 x255	200x92	218x216 x120	119x159 x70	119x159 x70
Weight (Kg)	2,1	2,1	2,1	2,5	2,2	1,1	1,5	1,8	1,8
Degree of protection	IP66	IP66	IP66	IP65	IP65	IP20	IP20	IP56	IP56
Container material, body	Aluminium	ABS	ABS	Aluminium	UV stab. plastic, metal grid	Supporting ring in metal	UV stab. plastic, metal grid	Halogen free Polymer EN 60754-2	Halogen free Polymer EN 60754-2
Installation, environment	Indoor Outdoor	Indoor Outdoor	Indoor Outdoor	Indoor Outdoor	Indoor Outdoor	Indoor	Indoor	Indoor Outdoor	Indoor Outdoor
Main applications features	Power directivity weather resistant	Power directivity weather resistant	Power directivity weather resistant	Power weather resistant Audio Quality Design	Power Audio Quality Design	Ceiling Mount Audio Quality	Wall Mount Practicality Audio Quality	Directivity Compact Audio Quality Resistant	SIP Call Repeater Alarm

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 class 0 12,95W
Power Supply (Opt.):	230Vac/12-24Vdc-1-2A
Inputs from external alarm commands:	1
Inputs for differentiated SIP call buttons:	2
Internal relays that can be controlled via LAN:	2
Contact rating of the 2 internal relays:	max 30Vdc – 1.5A
Cpu:	IMX25 400MHz processor
Memory:	256MB Ram, Micro-SD Flash 2GB
Messages/Sounds:	pre-recorded in the SD memory
Operating temperature:	from -20° to +55°C
Storage temperature:	from -20° to +65°C
Umidity:	up to 90%
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
RTP Multicast audio streaming:	G.711 a-Law, μ-Law, G722 Linear 16KHz, 24KHz, 32KHz
Audio Communication:	Unidirectional and Bidirectional
Additional speakers:	passive speakers 8 Ohm
SIP Account:	2 accounts for calls and night repetition
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

Encoder/Decoder modules for driving passive speakers and traditional analog amplifiers

These modules allow to protect your investment by converting amplifiers and speakers from your existing audio system into amplifiers and network speakers, and to be able to progressively migrate to LAN technologies.

Model					
Features	AD610 Network Adapter	AD611 Network Amplifier	AD612 Network Amplifier	AD615/S Encoder Multicast	AD615/SIP Encoder SIP
Power (ext power s.)	2W	12W (2x6W)	40W (2x20W)	-	-
Power (PoE power s.)	2W	12W (2x6W)	10W	-	-
Speaker impedance	4-8 Ohm	2x8 Ohm	2x8 Ohm	-	-
Bandwidth (Hz)	80-15.000	80-15.000	80-15.000	80-15.000	80-15.000
Audio isolation transformer on 1st output	YES	-	-	-	-
PoE Power Supply	802.3af CL 0 12,95W	802.3af CL 0 12,95W	802.3af CL 0 12,95W	802.3af CL 0 12,95W	802.3af 12,95W
External Power Supply 230Vca	12Vdc-1,5 24Vdc-1,0A 15Vac-1,0A	12Vdc-1,5 24Vdc-1,0A 15Vac-1,5A	12Vdc-2,0A 24Vdc-2,0A 18Vac-2,5A	12Vdc-1,5 24Vdc-1,0A 15Vac-1,0A	12Vdc-1,5A 24Vdc-1,0A 15Vac-1,0A
RX Multicast Channels	16	16	16	-	-
TX Multicast Channels	-	-	-	2	16
N. audio int. Memories	6	6	6	6	-
Automatic broadcast on hour, days, week	YES	YES	YES	YES	YES
Clock synchronization	Web/internet	Web/internet	Web/internet	Web/internet	Web/internet
Connection	SIP Server P2P	SIP Server P2P	SIP Server P2P	-	SIP Server P2P
SIP Accounts	2	2	2	-	1
Audio outputs protection	Permanent short circuit protection	Permanent short circuit protection	Permanent short circuit protection	-	-
External command input	1	1	1	-	-
Internal Relay	1	2	2	-	-
Container material	Metal alloy	Metal alloy	Alloy and aluminum	Metal alloy	Metal alloy
Degree of protection	IP20	IP20	IP20	IP20	IP20
Installation	Indoor	Indoor	Indoor	Indoor	Indoor
Dimensioni (mm)	74x58x25	74x58x25	74x58x35	74x58x25	74x58x25
Peso (gr)	160	160	180	160	160
Use, Application	DECODER , audio signal adapter Transforms an analog audio amplifier of any power into a Network Amplifier	DECODER , 2 output power IP amplifier for external speakers Transforms any passive speaker into an active IP SIP speaker. Modules are equipped with 2 outputs for 2 x 8 Ohm 20W speakers (AD612 powered at 24V)		ENCODER Multicast analog/Dig. Transforms 2 analog audio source into 2 Multicast stream over LAN	ENCODER Multicast A/D + SIP Route SIP calls into 16 Multicast stream selectable

Common Technical Features

LAN, protocols:	TCP/IP Network 10/100BaseTx, SIP 2.0
Cpu:	IMX25 400MHz processor
Memory:	256MB Ram, Micro-SD Flash 2GB
Messages/Sounds:	pre-recorded into the internal SD Card
Audio Communication:	Unidirectional
RTP Multicast audio Streaming:	G.711 a-Law, μ -Law, G722 Linear 16KHz, 24KHz, 32KHz
Programming:	user-friendly web interface and passwords

Operating temperature:	from -20° to +55°C
Storage temperature:	from -20° to +65°C
Umidity:	up to 90%
Installation:	table, wall mount, DIN rail
Warranty:	2 years, possibility of extension (option)
Origin:	entirely developed and manufactured in Italy
Compatibility:	CE, ROHS

Microphone bases and multi-zone consoles for announcements sending

Model						
Features	AD696/B	AD696/BM	AD696/AA	AD696/AC	AD696/CT04	AD696/CT08 (Up to 160)
Microphone capsule	Cardioid electrete	Cardioid electrete	Cardioid electrete	Phone electrete	Card./Ph electrete	Card./Ph electrete
Freq. response (Hz)	50-16.000	50-16.000	50-16.000	200-8.000	50-16.000 200-8.000	50-16.000 200-8.000
Output Impedance	150 Ohm	150 Ohm	150 Ohm	200 Ohm	-	-
Sensitivity 0dB 1V/Pa @1Khz	-40dB	-40dB	-40dB	-40dB	-40dB	-40dB
Configurable Multicast call buttons for zones	1 zone	1 zone	1	-	4/12 zones	8/28 zones expandable to 256
VoIP SIP Calls	NO	NO	NO	NO	YES	YES
Internal Chime (before announce)	NO	7 tones selectable	NO	NO	NO	NO
Dimensions (mm)	113x140xH35 (No arm)	113x140xH35 (No arm)	113x140xH35 (No arm)	-	184Lx186W	224Lx220W
Arm length (mm)	455	455	455	-	255	255
Weight (Kg)	0,52	0,52	0,52	0,15	1,0	1,4
Use, Application	AD615/S Encoder Voice announcements	AD615/S Encoder Voice announcements with Chime	Specific for PC with ADAM Voice announcements	Specific for PC with ADAM Voice announcements	Console Multicast and SIP calls Voice announcements	Console Multicast and SIP calls Voice announcements

Software



Model					
Features	ADAM Windows PC	AA-VIDEOCONSOLE Windows PC	AA-VIDEOCONSOLE iOS iPhone	AA-VIDEOCONSOLE Android	EVA Android
O.S.	Windows 7/10	Windows 7/10	iOS Apple	Android	Android
N. of terminals	Over 1.000	16	4	4	256
Multicast Calls	YES	NO	NO	NO	NO
VoIP SIP/P2P Calls	YES	YES	YES	YES	NO
Centralized management of terminals	YES	NO	NO	NO	NO
Management of video Doorphones AA-500/600	YES	YES	YES	YES	NO
Use, Application	Complete control system, multimedia management and microphone console from 16 to 256 zones	Management of up to 16 Au- dio/V ideo Terminals, P2P calls	Management of up to 4 Au- dio/V ideo Terminals, SIP & P2P calls	Management of up to 4 Au- dio/V ideo Terminals SIP & P2P calls	Volume adjust for series AD600 from Android Smartphone

(*) Announcements from Smartphone Android on Multicast channels can be done with the free APP **RTPMIC** downloadable from GooglePlay store.

Other products and accessories of the line **SipComStage**

Passive speakers that can be connected to the 2nd output of the IP SIP speakers to double the power.



AD330/30T

Horn Passive Speaker 8 Ohm 30W aluminum with transformer for 100V audio lines



AD330A/30T

Horn ABS Passive oval speaker 8 Ohm 30W with transformer for 100V audio lines



AD334/20TP

Passive Speaker 8 Ohm 20W with 100V transformer



AD339

Passive 8 Ohm 15W Adjustable, compact



AD333/12TP

Passive Speaker 8 Ohm 12W with transformer for 100V audio lines



AD335/06TP

Passive Speaker 8 Ohm 6W with transformer for 100V audio lines



AD338/40B

Passive 8 Ohm 40W adjustable speaker black



AD338/40W

Passive 8 Ohm 40W adjustable speaker white



AD614/xx

Network Amplifiers, big power, models from 120W/240W/480W



AD301R

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



AD320/30

30W transformer for PA 100V audio line with constant voltage, toroidal



AD32

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



AA-36

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



AD314/xx

Analog Amplifiers, big power models from 120W/240W/480W



AA-699x

Flash warning lights with Xeon lamp or with high brightness LEDs



AD699/XPB

Metal Box IP65 antivandal with red push button N.O.



AD329

Mini FM tuner, MP3 player, USB, SD card, 5Vdc power supply



AD329/BT

Bluetooth receiver with 3.5mm jack for AD615/S



G2130/2140/...

SIP telephones and video phones for internal stations, VoIP and multicast calls



AA-10/PA - AA-11/PA

Analog telephone interface for announcements to traditional analogue audio PA amplifiers



AA-39DL

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



AA-39P4

PoE injector 230Vac/48Vdc 0,5A



AA-39E3 (30W)

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

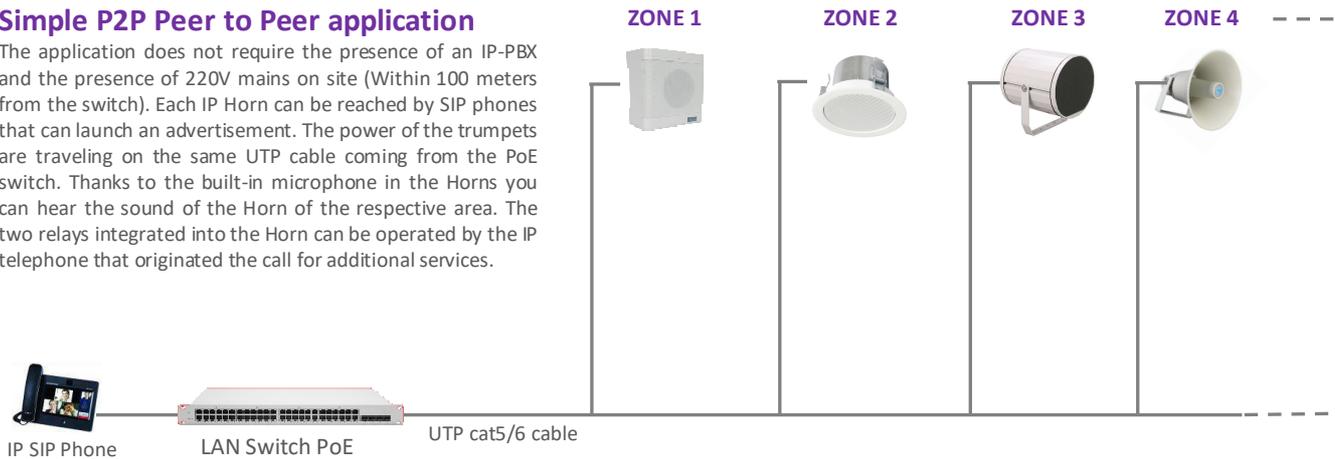


AA-39E6V (60W)

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

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 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.



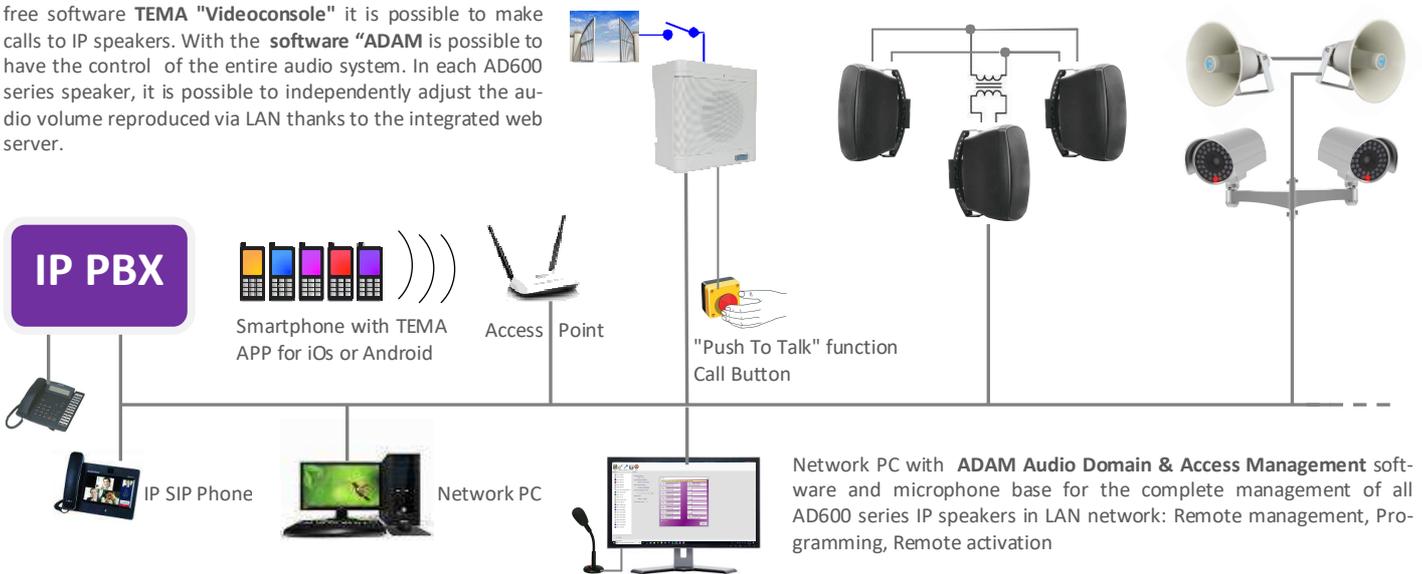
Application with IP-PBX or Peer to Peer

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. With the software "ADAM" is possible to have the control of the entire audio system. In each AD600 series speaker, it is possible to independently adjust the audio volume reproduced via LAN thanks to the integrated web server.

ZONE 1 AD635 system with relay remote control and call button

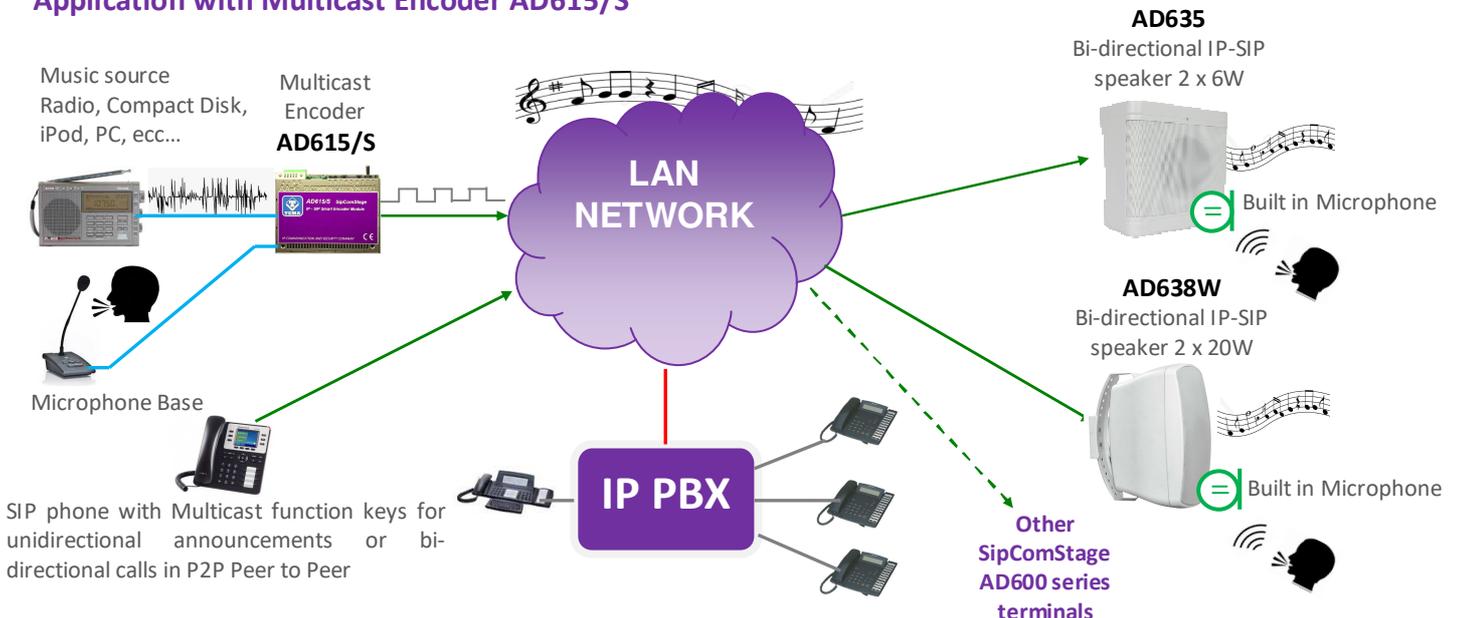
ZONE 2 AD638B system with other passive speakers added on a 100V line with AD320/30 transformer

ZONE 3 AD630S IP Horn with other AD330/30T 8 Ohm passive horn to support cameras



Network PC with **ADAM Audio Domain & Access Management** software and microphone base for the complete management of all AD600 series IP speakers in LAN network: Remote management, Programming, Remote activation

Application with Multicast Encoder AD615/S





ADAM Audio Domain & Access Management

Advanced software for complete management of all terminals and multi-zone microphone consoles

ADAM Audio Domain & Access Management is a software that can be installed on a Windows PC and with a practical user interface transforms it into a complete centralized Console for monitoring and management of all AD600 series IP-SIP audio systems and AA-500/AA-600 Intercom series.

Through a click will be shown on screen all the devices connected to the LAN network, with the description assigned by the user to each device, the IP address and other useful information.

With **ADAM** it is possible to interrogate and program each terminal, update its software release, adjust the audio volume, activate audio messages contained in the remote device, and much more.

Announcements broadcast in Multicast streaming

ADAM is also an Encoder in Multicast channels capable of transmitting announcements from a local microphone connected to the PC on different priority multicast channels, or programmed reception zones, thus transforming the PC into a multi-zone microphone console for the transmission of announcements or pre-recorded audio files. The sending operation can be performed in a few seconds and is interrupted with a simple click.

Audio Quality

Transmitting audio can be chosen in a range from 8KHz up to at 44.1KHz for maximum quality.



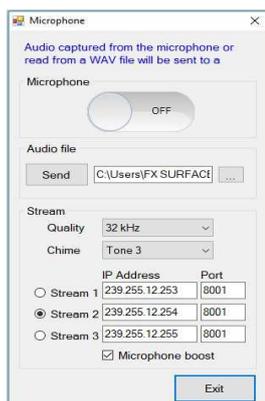
Software developed in Italy

The software is entirely developed in Italy by TEMA which guarantees the upgrade of the performances and the support over time.

ADAM is a system without limits

No limit to the number of ADAM software that can be installed on a PC on the LAN, over 1,000 manageable terminals. ADAM transforms a PC into a control console for the entire Audio IP system, and in perfect SIP integration with the telephone and security system.

With ADAM it has never been easier to build sound system audio systems integrated on the LAN network. The use of the existing infrastructure avoids the laying of expensive cables and makes the installation of the system fast, economical and scalable.



- **Local microphone announcements or sending pre-recorded audio files in 3 zones**

- **Centralized management of all IP-SIP Audio and Intercom terminals**

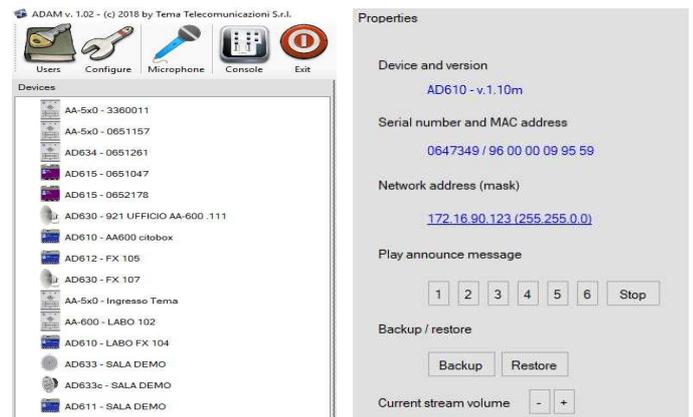
Network search and display of TEMA devices

Display of the main device parameters

Audio volume adjustment of all terminals

Launch of messages in memory of remote terminals

Backup and Restore configuration of all terminals



- **Monitor of all Multicast transmissions**

Real-time monitor of all the Multicast transmissions in the network with indications of the generator terminals and destination addresses of the data flows.

Source	Destination	Description
172.16.90.122	239.255.15.2 / 8001	AD615 - 0652178 LN 32 kHz
192.168.20.50	239.255.25.3 / 8001	LN 32 kHz
192.168.20.50	239.255.25.4 / 8001	LN 32 kHz
192.168.20.50	239.255.25.6 / 8001	LN 32 kHz
192.168.20.50	239.255.25.5 / 8001	LN 32 kHz
192.168.20.50	239.255.25.15 / 8001	LN 32 kHz

- **Microphone Console from 16 to 256 zones**

Extreme operational simplicity

Multiple zone announcements at the same time

Sending pre-recorded audio files

Schedule to send pre-recorded audio files

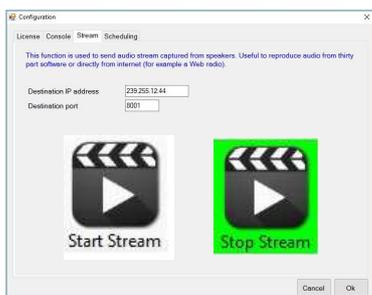


• Audio Multicast Streaming generation

The PC becomes a multimedia station to transmit media content on Multicast channels in LAN network:

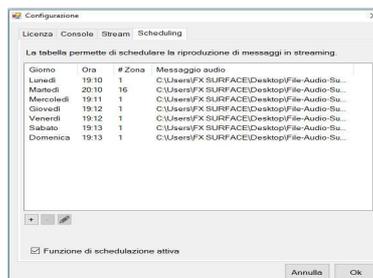
Internet Radio and TV streaming, Youtube, Spotify, iTunes, Playlist, lettori CD, USB, local Smart Card, ecc.

Since ADAM intercepts the PC sound card it is also possible to play music files on the PC (Wav, MP3) which will be automatically transmitted on all the terminals programmed to receive the Multicast channel programmed in ADAM.



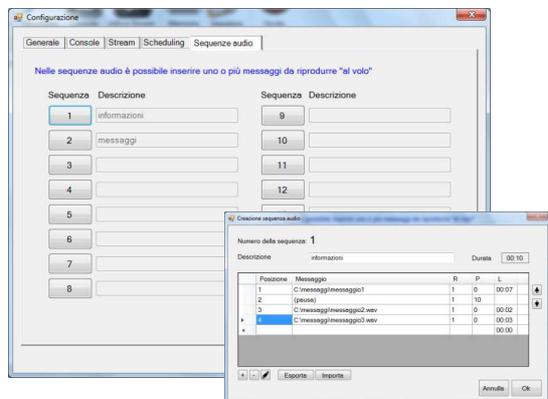
• Scheduling at set times and days

With this function it is possible to schedule the sending of prerecorded audio files at the desired times and repeat them on preset days, for example a product promotion program in the supermarkets, the notice of termination of lessons in a school, a signal for the end of working hours, etc. There are no limits in the number of programmable audio files available online in the programming screen.



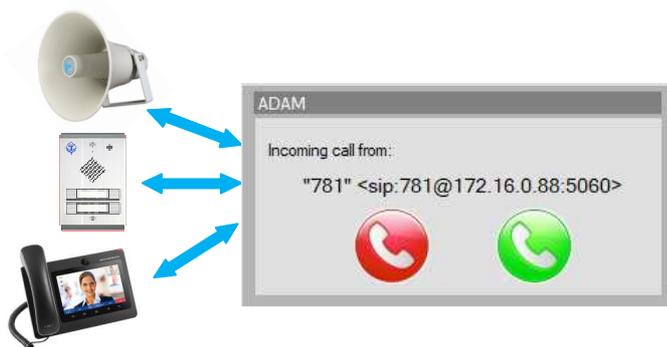
• Sequences of audio files in output and Playlist

With this function it is possible to send audio files that can be timed consecutive messages or music files such as Playlist. The sequences programmed, as well as manually, can be called up by the "Scheduling" function at preset days and times.



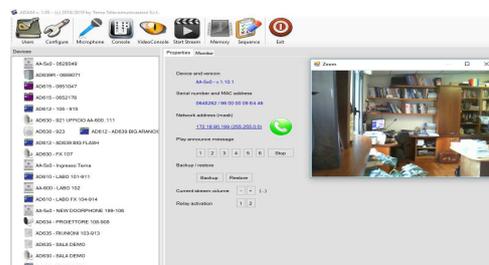
• VoIP SIP calls to and from the terminals

The function allows making calls to all AD600 and AA-500/AA-600 series terminals on the network, whether registered in an IP-PBX or in P2P (Peer-to-Peer) to the IP address of the terminals. All terminals can call ADAM at the assigned number or in P2P at the IP address of the PC where ADAM is installed.



• Display of Intercom cameras

ADAM is able to display the cameras present in the Video Intercom series Tema AA-500/AA-600 series on the network, even without establishing a communication.



• Audio memories for immediate sending

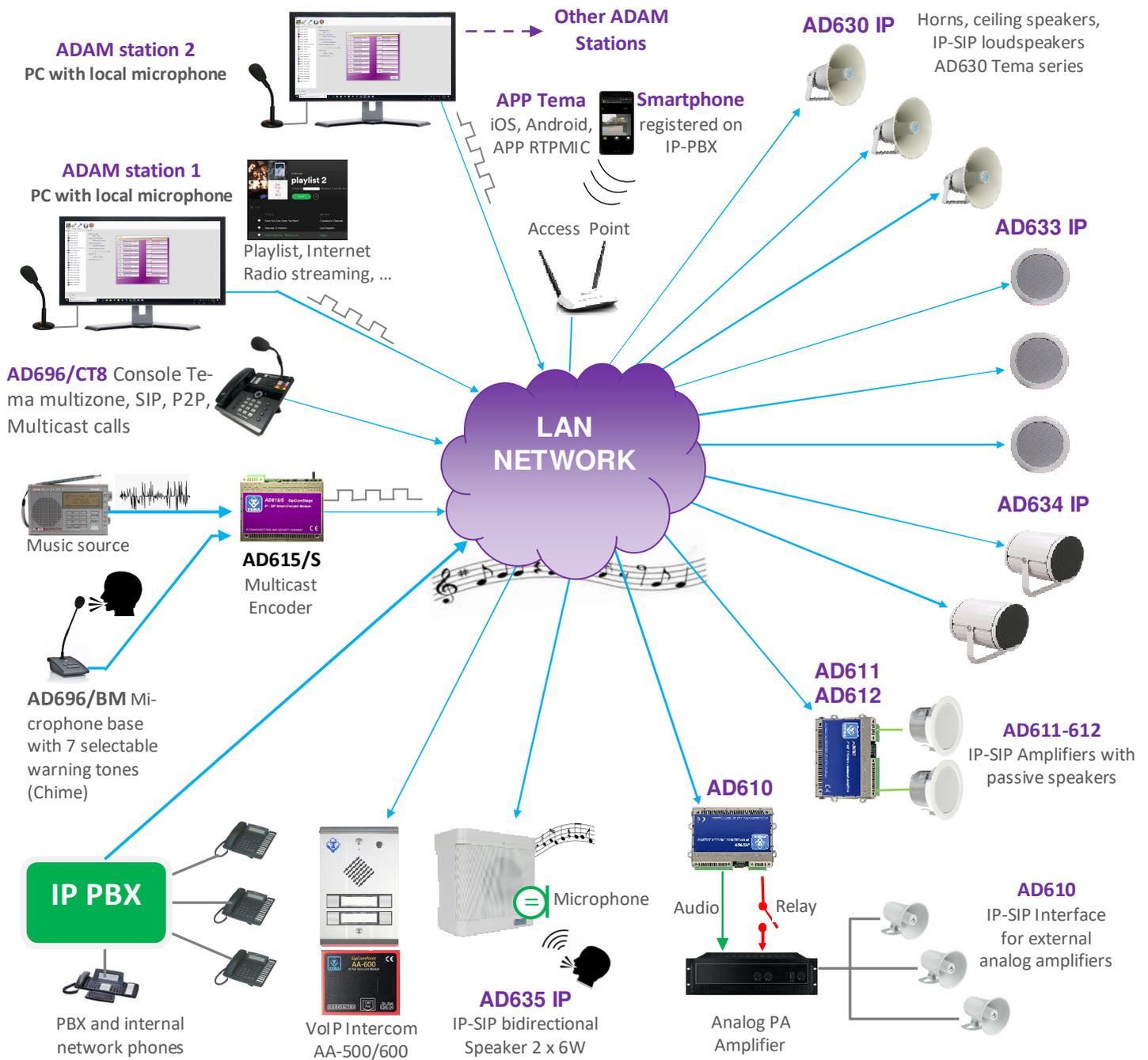
It allows to record messages with the microphone, store them on disk and recall them for immediate sending to a specific area or to all areas. 16 memories are available. Particularly useful in large rooms with accentuated reverberations in order to avoid microphone disturbance by sending the message "delayed". The files produced can be exported in Wav format, archived and reused.



• Activation of terminal relays via LAN



Application of the ADAM software in an IP Audio integrated plant with an IP-PBX



It is possible to insert multiple **AD615/S** encoders in the network, without limits, each of which transmits a musical sound stream on a specific Multicast channel, in this way the IP-SIP speakers can be tuned to different musical contents according to preferences of the environments to be sounded.

Information and warning announcements launched by the microphone bases or by the **ADAM** stations can simultaneously reach all the AD600 terminals or, optionally, only a part of them.

AD610 allows to interface a traditional amplification system to the LAN network while the IP **AD611-612** amplifiers in the same way allow to drive the speakers and the passive horns of the previous traditional system.

Base Services (Without IP-PBX)

- Different Multicast music according to zone preferences
- Microphone alert messages by zone or all zones
- Messages from IP-SIP TEMA AA-500/600 series Intercom
- Multicast messages from a SIP phone with function keys
- SIP calls in P2P (Peer to Peer)

Additional services in the presence of an IP-PBX

- Bidirectional telephone call on each SIP loudspeaker
- Telephone call from smartphones registered on the IP-PBX
- Messages from smartphone iOS/Android APP or softphone
- Night call ringtone repetition (Night Ringer)



ADAM Licenses and free version

Performances	ADAM Free (*)	ADAM-03 Micro 3 Zone	ADAM-16 Console 16P	ADAM-32 Console 32P	ADAM-64 Console 64P	ADAM-128 Console 128P
Devices search on the LAN	X	X	X	X	X	X
Display of devices data	X	X	X	X	X	X
Configuration Backup/Restore	X	X	X	X	X	X
Stream volume adjustment	X	X	X	X	X	X
Web connection to the device	X	X	X	X	X	X
Scheduling messages at set times	-	X	X	X	X	X
Launch of messages 1-6	-	X	X	X	X	X
Launch of PC audio file	-	X	X	X	X	X
Generating audio stream "Live"	-	-	X	X	X	X
VoIP & P2P Calls	-	-	X	X	X	X
Microphone function for 3 zones	-	X	X	X	X	X
16-zone Console/Buttons	-	-	X	X	X	X
32-zone Console/Buttons	-	-	-	X	X	X
64-zone Console/Buttons	-	-	-	-	X	X
128-zone Console/Buttons (**)	-	-	-	-	-	X

(*) The ADAM software and complete documentation can be downloaded free of charge from the Tema website in the full version usable for a duration of 30 days: <https://www.tema-ipaudio.com/en/adam-software/>

The ADAM DEMO version which can be downloaded free of charge from the site is complete with 64 zones and with all the special functions for a duration of 30 days, at the end, if you do not purchase the license, the basic functions will still remain as precious **free utility** with the functions of: scan of all devices on the network with all the information (IP address, MAC, firmware version, serial number, device name), it will still be possible on all active network devices switch relays 1 and 2, adjust the audio volume, backup and restore the configuration of each device.

(**)ADAM versions with Console function are available over 128 zones/buttons up to over 1.024 zones.

Technical features

Audio Digitization	: 8 – 16 – 32 – 44,1KHz
Codec	: G711, G722, Linear PCM
Number of manageable	: over 1.000 IP audio terminals in the network terminals
Compatibility	: Tema AD600, AA-500-600 products series
Availability/Licenses	: free full version downloadable via Web for 30 days, can be converted on a fee at the expiration
Access	: with multilevel password and administrator-programmable privileges
Multi-zone console software	: included, 16 selectable zones or groups
VoIP support	: including SIP protocol for integration with any type of IP-PBX on the market
Languages	: English, Italian
Software customization	: on request it is possible to realize software on customer's specifications

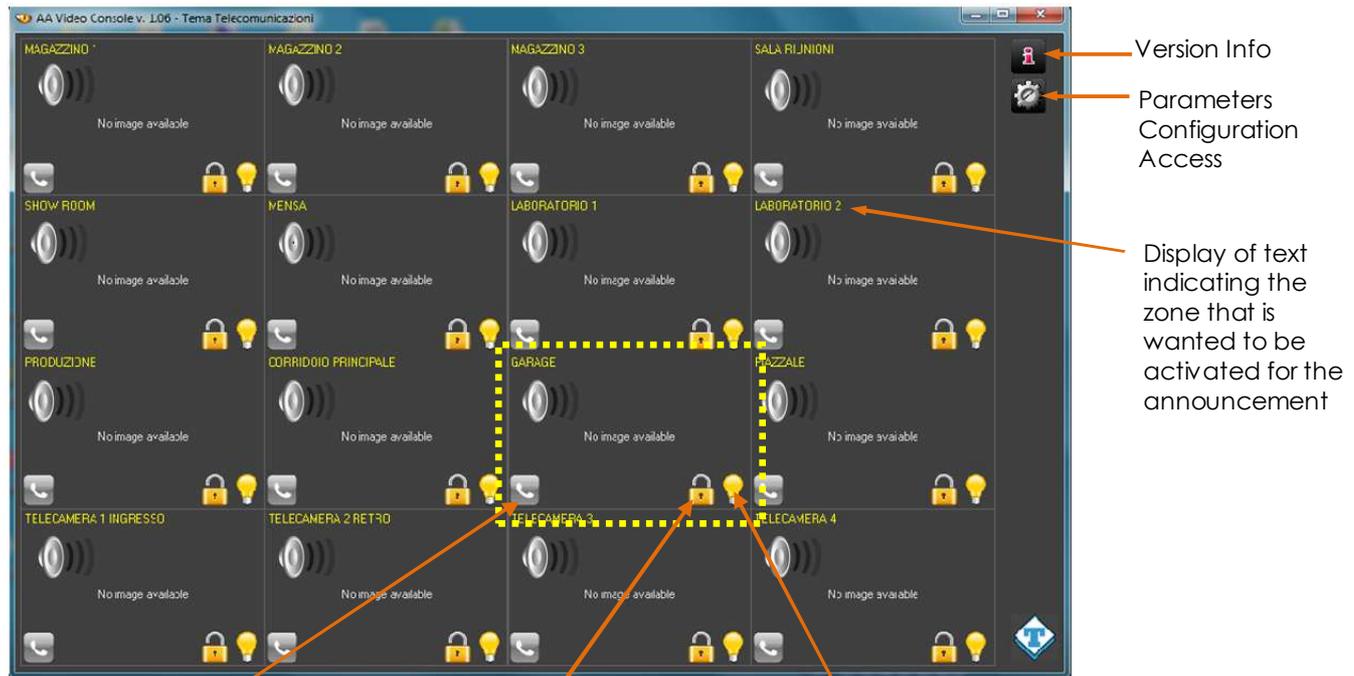
Minimum PC requirements

Operating system	: Windows 7/8/10
CPU	: better than 2,8 GHz
Hard disk capacity	: 250GB minimum
RAM	: 4 GB, suggested 8GB
LAN network board	: standard 100Mbit/Gigabit
Audio board	: SB Windows compatible
Microphone	: jack 3,5mm input
Line output	: jack 3,5mm – 0dB 150 Ohm
Speakers	: local, standard stereo
Monitor	: VGA 800x600 minimum
Keyboard, Mouse	: standard

IMPORTANT NOTE: the PC must be exclusively dedicated to the service with the ADAM application, other software applications cannot be run in the same PC.

AA-VIDEOCONSOLE management software for Windows PC (Free)

AA-VideoConsole is a software that is supplied free of charge with the AD600 series IP audio devices and the AA-500 and AA-600 series IP video Doorphone systems, used to monitor and operate from a single location with 16 IP audio devices and/or IP video Doorphones. The software installs on one or more PCs (without license limits) with operating system from Windows 7® or later. The program allows to see the area framed by the camera in the IP video Doorphones, to communicate and remotely operate the relays of the terminals managed in the network. The PC where the AA-Video Console is installed must be equipped with a sound card and fitted with speakers and a microphone. It is possible to manage up to 16 devices simultaneously and working with one terminal at a time.



Button to call the system to communicate or broadcast an announcement in the area

Button for relay 1 activation of the system present in the zone

Button for relay 2 activation of the system present in the zone

Offered services

- Up to 16 manageable terminals
- Operation both with SIP Server and in Peer-to-Peer mode
- Control of the door opener relay or path marker (relays 1 and 2) even without being necessarily in communication
- Hands-free audio
- Visualization of the camera image of an IP video intercom AA-500/600 series even when not in communication



AA-VIDEOCONSOLE Management APP for iOS and Android (Free)

The APPs are free and can be installed in Smartphone and Tablet devices with iOS and Android operating systems. It is possible to manage up to 4 devices and operating with one terminal at a time. The functions are the same as for the PC version.

Customer Support

TEMA offers advice and expertise to the customer to facilitate the design of new installations or adaptation of old systems. Contact us for any need.

- ◆ Environments acoustic noise measurements
- ◆ Projects based on the layout of the rooms and service specifications
- ◆ After-sales support
- ◆ Continuous updating of products and software performance
- ◆ 24-month 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 certified**.

To date TEMA TELECOMMUNICATIONS 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.

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"IP COMMUNICATION AND SECURITY COMPANY"