The technological innovation applied to a classic telephone service ... and much more!

High sound power, acoustic and visual signaling, adjustable

SIP Call Repeater in LAN network with customizable tones and sounds

The IP-SIP AD639R loudspeaker, in IP56 enclosure, is part of a series of TEMA loudspeakers to be connected in a standard LAN network and is particularly suitable as a SIP repeater for incoming overtime telephone calls. The system has a considerable adjustable sound power and is activated when an incoming call arrives and emits tones or audio files pre-recorded in its memory, easily replaceable, according to the need, via web browser. With the system are supplied several sound files of ringtones and alerts that can be loaded remotely.
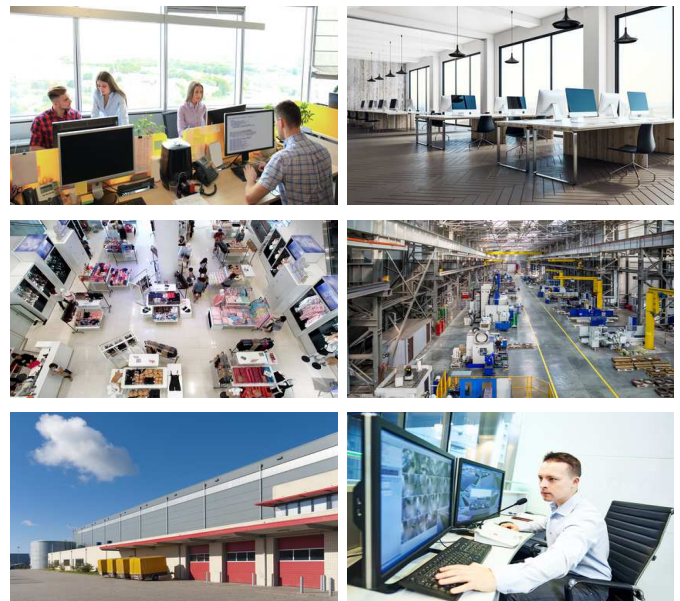
AD639R is equipped with an auxiliary input for an external command, for example the entrance bell, to signal the visitor with a different sound from that of the telephonic call. It also integrates 2 programmable relays to activate external light indicators or other devices.

The system can be equipped with a multi-colored LED light to add an optical signal to the acoustic sound. Alternatively, various optical devices are available, including Xenon Flash, directly driven by the AD639R device.

The installation simply consists of connecting AD639R to the LAN and registering it on an IP-PBX in the "Night" ringer group. The power supply can be supplied on the same UTP network cable by a PoE switch, or by an external 230Vac power supply in the Tema catalog, in this case the sound power will be higher.

Integration with VoIP SIP phone systems

AD630R 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.
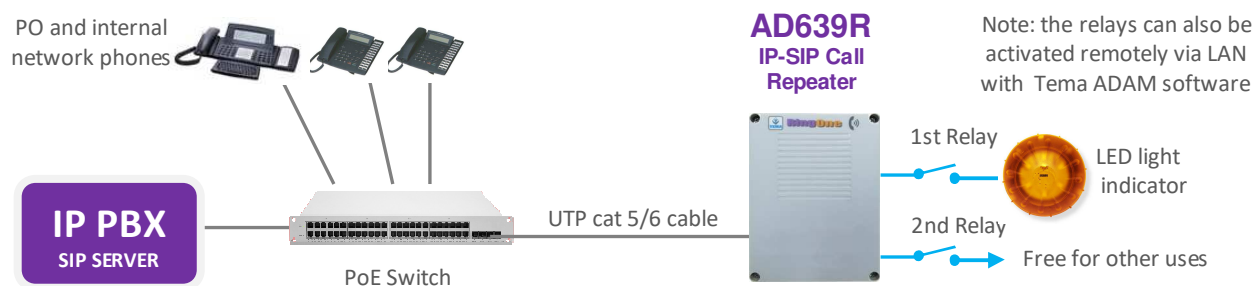

Applications, Target

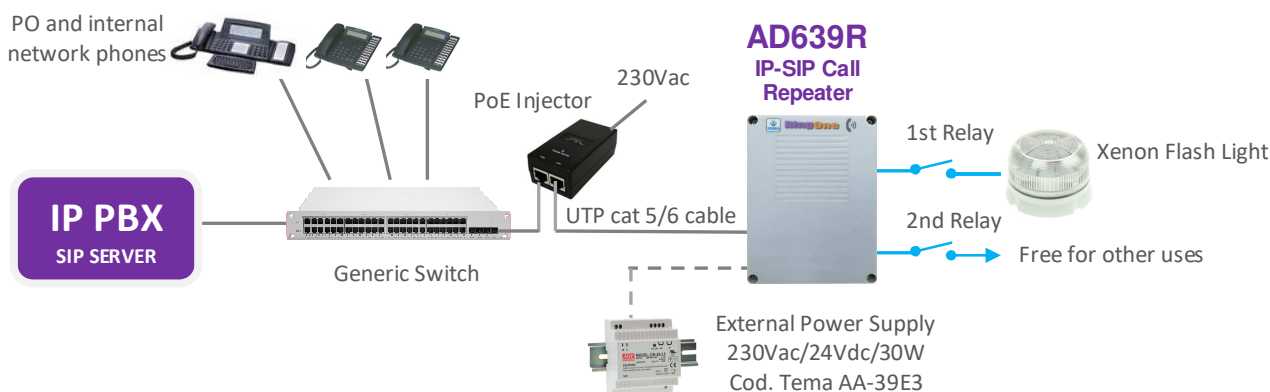- ♦ **Companies, Offices, Factories, Warehouses, Industry**
- ♦ **Warehouses, Garage, Supermarket, Parkings**
- ♦ **Alarm and Warning systems, Video surveillance**
- ♦ **Hospitals, Schools, Railways, Airports, Ports**

- • *Replaceable and customizable warning sounds*
- • *Wide variety of supplied sound files*
- • *Possibility of visual signaling with Flash and LED*
- • *New innovative features*

SIP telephone call repeater with PoE direct power supply

PO and internal network phones

IP PBX
SIP SERVER

PoE Switch

UTP cat 5/6 cable

AD639R
IP-SIP Call Repeater

Note: the relays can also be activated remotely via LAN with Tema ADAM software

1st Relay — LED light indicator

2nd Relay — Free for other uses

SIP telephone call repeater with PoE injector or external 230Vac power supply

PO and internal network phones

IP PBX
SIP SERVER

Generic Switch

PoE Injector   230Vac

AD639R
IP-SIP Call Repeater

UTP cat 5/6 cable

1st Relay — Xenon Flash Light

2nd Relay — Free for other uses

External Power Supply
230Vac/24Vdc/30W
Cod. Tema AA-39E3

Operation as a SIP repeater

Once connected AD639R in the LAN and registered in the IP-PBX in a group of numbers for the repetition of incoming or night calls, the device will make a loud sound (a message or any compatible audio file) contained in its memory and at the same time, activate a LED or a FLASH warning light, if provided.

A second relay, which can also be activated by the presence of a SIP call, can be used for other external drives, for example, activating another sound reproducer in different rooms or areas. The cycle will stop when the call is terminated or an operator responds, except to resume for a new incoming call.

Alarm signaling with telephone alert

AD639R can also be activated by an external signal being equipped with a special input to which an alarm contact, a sensor or a push button can be connected. In this case a message or a (different) sound will be issued after which AD639R can call a number in P2P (Peer to Peer) and inform an operator with a prerecorded message of the event occurred.

Numerous sound files supplied

The supply includes a large variety of sounds and ringtones ready in the format compatible with AD639R and with different characteristics according to the needs, ranging from the classic "Ring" of the traditional phone, to siren-like sounds up to sounds similar to modern warning ringtones.

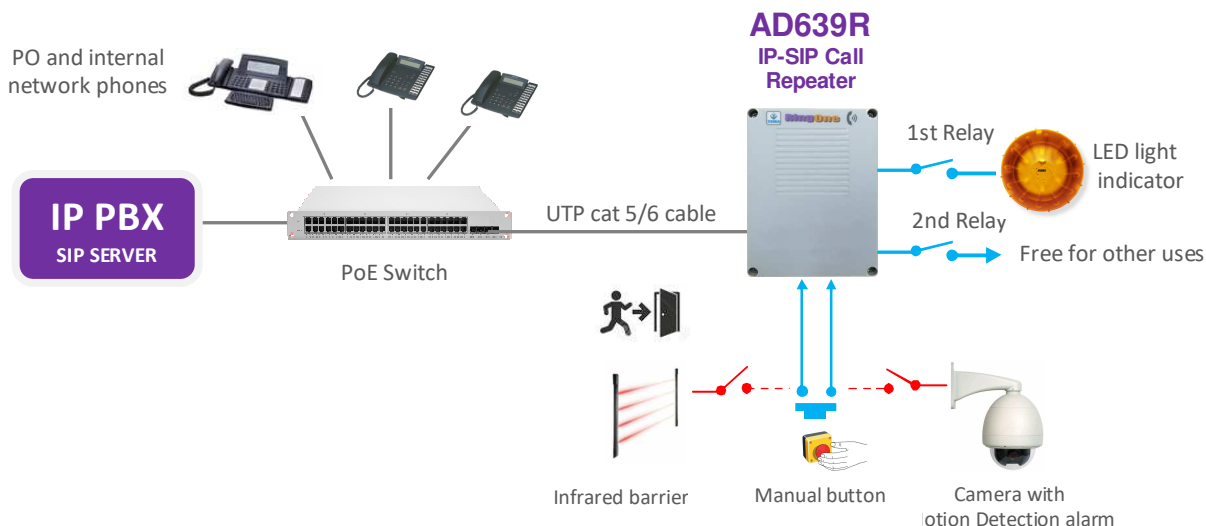Replacing the ringtone sound file is extremely simple and fast thanks to the AD639R embedded Web server.

The user can also record a sound he likes, in the audio format compatible with AD639R (8KHz-16bit-mono) and transfer it to the memory with any web browser (MS Explorer, Edge, Chrome, Firefox, etc.)

Announcer

The AD639R can simultaneously be used as an announcer to receive audio from a microphone on the network or from a SIP telephone equipped with the Multicast function, which will be played on the speaker. The system is compatible with the ADAM Tema software for launching announcements and/or files in Multicast channels.
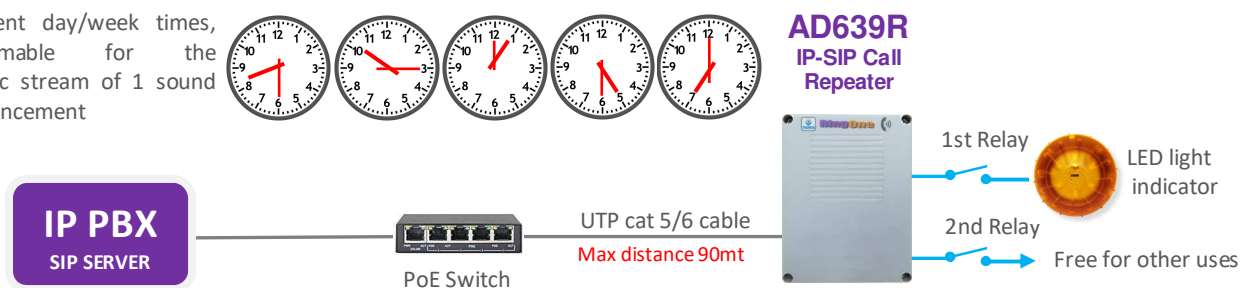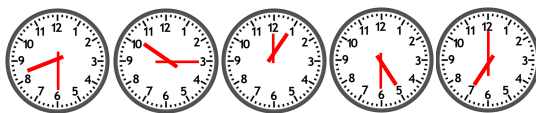
Other services in addition to the basic function

● **Streaming of a message or sound following by an external event, SIP telephone call to the control center with specific message of the origin area**

PO and internal
network phones

IP PBX
SIP SERVER

PoE Switch

UTP cat 5/6 cable

AD639R
IP-SIP Call
Repeater

1st Relay

LED light indicator

2nd Relay

Free for other uses

Infrared barrier
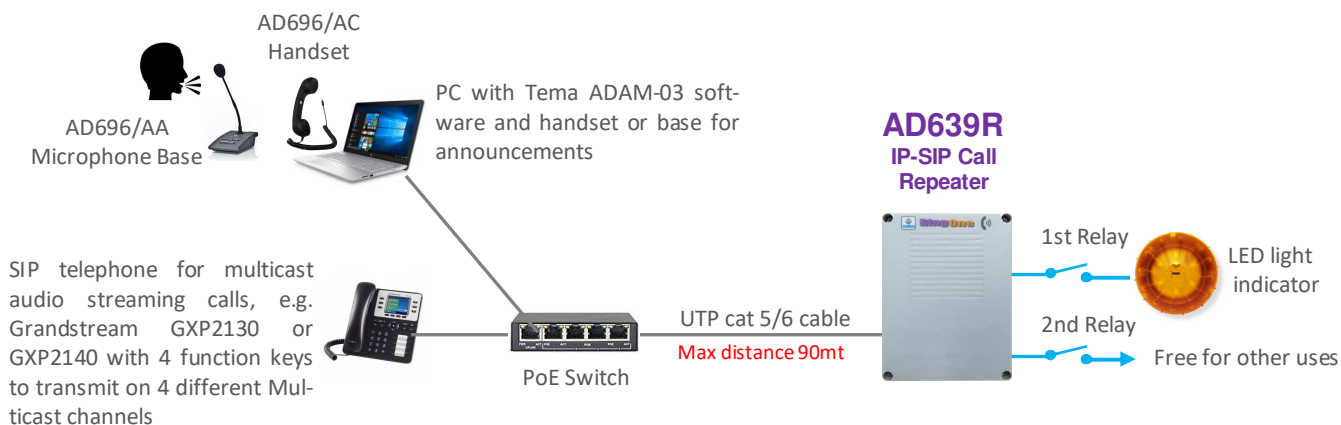
Manual button

Camera with
Motion Detection alarm

● **Streaming of an audio file warning message or pre-recorded sound at set times, programmability daily, weekly or with annual calendar**
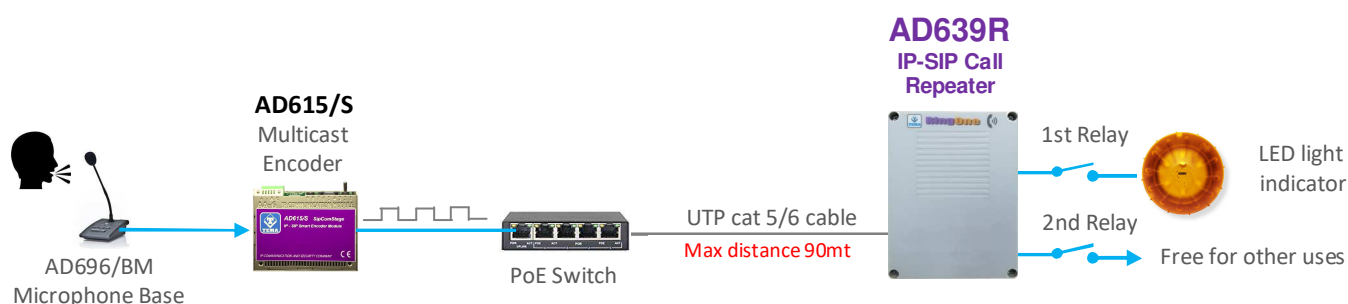
5 different day/week times, programmable for the automatic stream of 1 sound or announcement

AD639R
IP-SIP Call
Repeater

IP PBX
SIP SERVER

PoE Switch

UTP cat 5/6 cable
Max distance 90mt

1st Relay

LED light indicator

2nd Relay

Free for other uses

● **Application as a simple multicast announcer on UTP cable with adjustable power**

AD696/AC
Handset

AD696/AA
Microphone Base

PC with Tema ADAM-03 soft-ware and handset or base for announcements

AD639R
IP-SIP Call
Repeater

SIP telephone for multicast audio streaming calls, e.g. Grandstream GXP2130 or GXP2140 with 4 function keys to transmit on 4 different Multicast channels

PoE Switch

UTP cat 5/6 cable
Max distance 90mt

1st Relay

LED light indicator

2nd Relay

Free for other uses

- ## Announcer on UTP cable with microphone base AD696/BM and Chime, Encoder AD615/S

AD639R
IP-SIP Call Repeater

1st Relay → LED light indicator

2nd Relay → Free for other uses

AD615/S
Multicast Encoder

UTP cat 5/6 cable
Max distance 90mt

AD696/BM
Microphone Base

PoE Switch

Available models and accessories

AD639R
Without flashing light

AD639R/LA
With orange LED flashing light

AD639R/FT
With transparent Xenon FLASH flashing light

AD639R/FR
With red Xenon FLASH flashing light

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

AA-39E3
DIN Power Supply 230Vac/24Vdc-1,5A

AD699/L10A
Flashing orange LED, outdoor installation

AD699/X10B
FLASH transparent Xenon flashing light, outdoor installation

AD699/X20R
Flashing red Xenon FLASH, outdoor installation

AD699/RT
Adjustable support in horizontal and vertical, grey color, 5 kg capacity

Tested with the most popular PBX brands:
**SIEMENS - AVAYA - ALCATEL – PANASONIC – SAMSUNG - NEC - 3CX
LG - WILDIX - AASTRA - ASCOM - NITSUKO - SELTA – PHILIPS
ASTERISK-BASED SYSTEMS**

Technical features

LAN, protocols:	TCP/IP Network 10/100BaseTx, SIP 2.0
Degree of protection/impact resistance:	IP56/IK08
Power Supply:	PoE, PoE Injector or external power supply
PoE:	802.3af class 0 12,95W
External Power Supply (Opz.):	230Vac/12-24Vdc-1-2A
Security:	access through password, activity Log
Inputs from external alarm commands:	1
Contact rating of the 2 internal relays:	max 30Vdc - 1.5A
Container:	halogen free Technopolymer EN60754-2
Operating temperature:	from -25° to +60°C
Storage temperature:	from -25° to +65°C
Umidity:	up to 100%
Dimensions:	119x159x70mm
Weight:	1,8Kg

Audio Amplifier:	40W (Ext.P.Supply) "D" Class (10W PoE)
Bandwidth:	350 – 6000Hz
Sound pressure (SPL):	100 dB (1KHz/1 meter)
Messages/Sounds:	1 pre-recorded into the internal SD
Visual signals:	active call Led
Optional signal lights:	Xenon Flash, multicolored LEDs
Programming:	user-friendly web interface and password
Tecnology:	IMX25 400MHz processor
Memory:	256MB Ram, Micro-SD Flash 2GB
Connection:	SIP Server (IPPBX) or P2P (Peer To Peer)
Installation:	wall mount, adjustable with access. (Option)
Origin:	entirely developed and manufactured in Italy
Warranty:	2 years, possibility of extension (option)
Compatibility:	CE, ROHS