



# 2N<sup>®</sup> SIP Speaker

Far more than just IP Paging



2N<sup>®</sup> SIP Speaker provides an ideal and cost effective solution for Public Address Systems and IP Paging and offers increased safety and security as access control anywhere one requires high quality audio communication and IP paging and intercom capabilities.

One can deploy 2N<sup>®</sup> SIP Speaker with existing or installed loudspeakers as a simple Public Address System or as a two-way intercom with attached microphone. With the combination of Standards-based Session Initiation Protocol (SIP) and Multicast, one has the option of sending public announcements to all the devices on the network or selecting individual zones or groups for calling specific devices.

2N<sup>®</sup> SIP Speaker offers a variety of options for interconnection as in video and audio management systems or controlling lights, alarm systems and entry gates and much more.

#### Take a look what's available!

#### Features:

- Standalone unit – no need for server
- Universal input and output
- Power supply via PoE or adapter
- Possibility of call initialisation
- Audio surveillance via RTSP
- Powerful built-in amplifier and line out
- Input for external microphone

#### Benefits:

- Effective public address device
- Utilisation of existing LAN/WAN network
- Web interface or unified software for centralised configuration
- Remote control

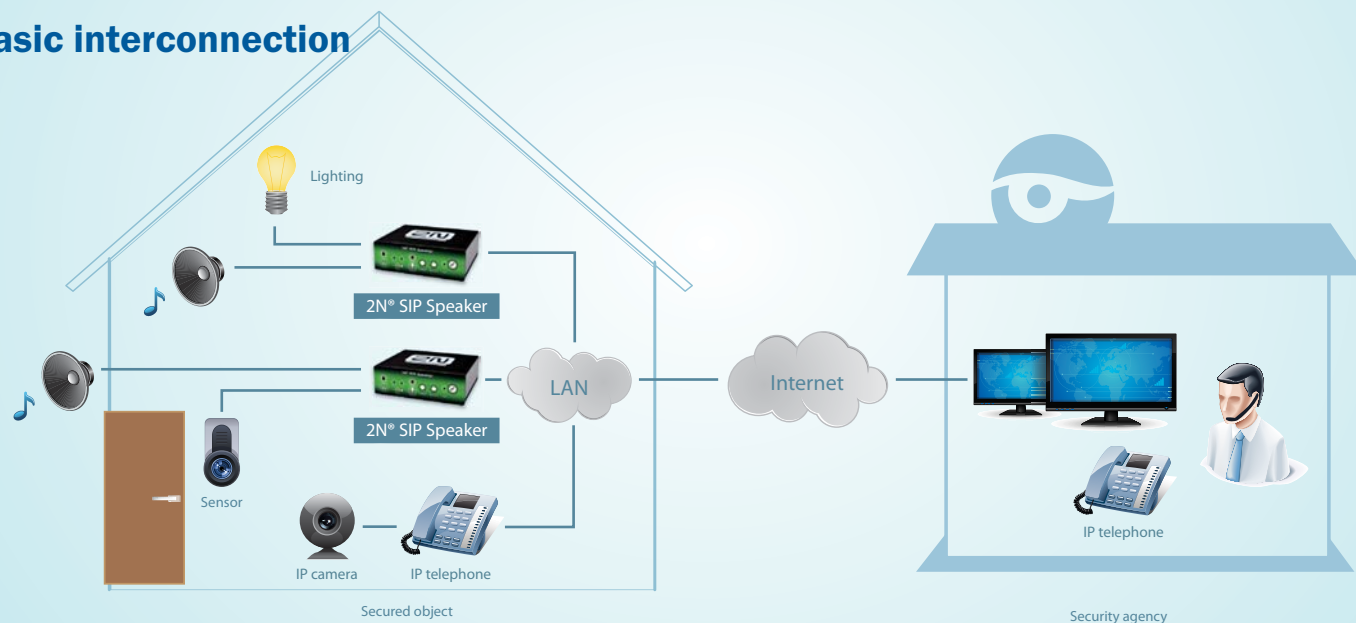
#### Target Groups:

- Offices and stores
- Government offices
- Shopping centres
- Sports grounds
- Parking lots and secured areas



Powerful amplifier  
up to 2x10W!

## Basic interconnection



## The most valuable benefits



### Multicast

Using Multicast you can easily configure an unlimited number of end devices for the reception of a single channel.

#### Practical use:

All devices in the network listen in to regular announcements on a single multicast address, while it is simultaneously possible to make a SIP call to one or more devices.



### Real time audio streaming

2N° SIP Speaker can continuously provide an audio stream from a connected microphone to another system, which can record it or otherwise process it. The actual data transfer is ensured by the RTSP protocol, which is in general supported by third-party systems.

#### Practical use:

2N° SIP Speaker can be used as an addition to an IP camera and can add audio to the video from the IP camera. 2N° SIP Speaker can be placed in direction of camera view.



### Time profiles

The time profiles function makes it possible to control the behaviour of a 2N° SIP Speaker after receiving a signal from a digital input.

#### Practical use:

When a time profile is valid 2N° SIP Speaker calls a designated telephone number after receiving a signal from a movement detector.



### Remote control of switches

A switch in a 2N° SIP Speaker can be controlled from another system using simple commands sent by HTTP protocol.

#### Practical use:

One example of use may be, for example, integration in a home automation system. The electric locks of entry doors can be controlled from a central panel independently of a call.



### IP Relay

2N° SIP Speaker can control IP relay connected to the same LAN as 2N° SIP Speaker. Relay is controlled by the same way as a normal relay inside of 2N° SIP Speaker – you just have to specify its IP address and user command.

#### Practical use:

IP Relay can be used in case you don't want to connect door lock directly into 2N° SIP Speaker for security reasons. This way there is only communication by HTTP command between 2N° SIP Speaker and relay that is controlling door lock.

## Technical specifications

### Dimensions and weight

Dimensions	105 x 34 x 86 mm
Dimensions (with L-profiles)	130 x 34 x 86 mm
Weight	300 g

### Amplifier properties

Output of powerful amplifier	4x terminal on rear panel, STEREO/MONO with auto detection
Speaker impedance	4-8Ω
Amplifier performance	Up to 2x10W depending on connection
Frequency range	20Hz - 20kHz (+/- 0.5dB)
Harmonic distortion	0,05% @ 1kHz
Signal to noise ratio	91dB

### Audio stream

Codecs	G.711, G.729
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### Power

Power from external source	12V DC / 1,8A
Power from LAN	PoE IEEE 802.3af

### Interface

Signalling of state	3x RG LED
Local control	3x Tlačítko
Remote control	1x Infrared detector
LAN connection	RJ-45 10/100BASE-TX with function Auto-MDIX
Earphone/line out	3,5mm jack connector
Microphone/Line in	3,5mm jack connector
Digital input	Galvanically isolated input 5 to 24V DC
Digital output	Galvanically isolated relay output 24V 1A AC/DC

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