

# 2N



# 2N® IP Audio Kit

## Audio communication and remote surveillance and control

2N® IP Audio Kit is an OEM intercom intended for incorporation into a variety of devices. It is designed to add value to both audio communication and remote surveillance and control. With it, users get both live support and the ability to ask for advice at the touch of a button.

2N.com



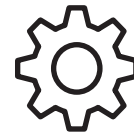
### A VoIP solution you don't have to develop

Incorporate The 2N® IP Audio Kit is easily incorporated into your existing device. Thanks to IP technology you simply extend it to include audio functionality.



### Simple DIN rail mounting

The 2N® IP Audio Kit is suitable for mounting on a standard TS 35 DIN rail, preferably at least 14 cm long.



### A wide range of connectors

Choose from a wide range of interfaces. Hook up a microphone, speakers, headphones or keypad buttons.

## Features & benefits

### SIP support, with no server needed

With it's SIP protocol support the intercom easily links with IP phones and PBX from other producers, without having to connect to the server.

### Time profiles

This function allows you to define the time period a given telephone number or access code are valid.

### User defined sounds

There are up to 10 user slots for uploading user-defined sounds (e.g.,vocal guidance or warning messages).

### Remote control

The HTTP API allows OEM intercom systems to be easily integrated into the master system for remote administration.

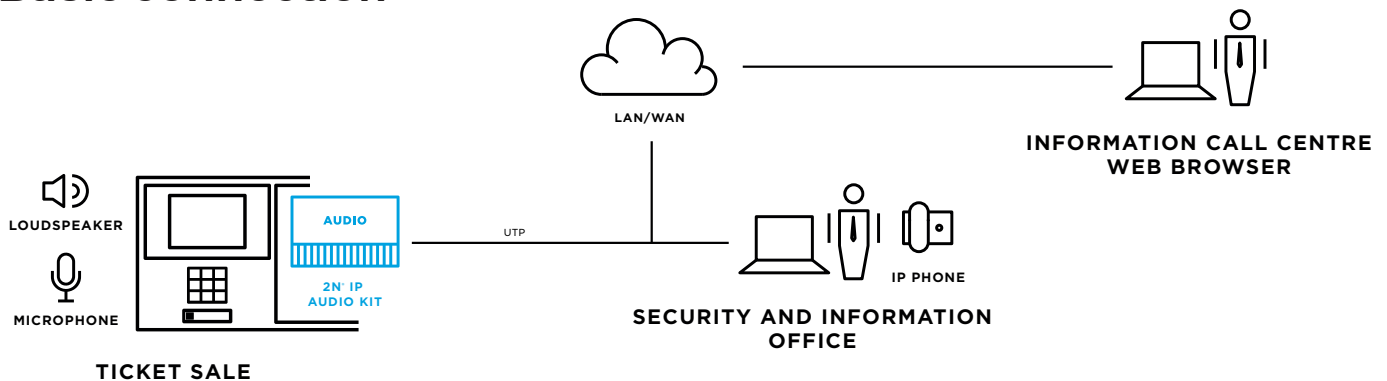
### Adaptive volume

The 2N® IP Audio Kit automatically adjusts speaker volume based on ambient noise level.

### Power supply

2N® IP Audio Kit can be powered by PoE or from a 12 V source.

## Basic connection



## Software

### 2N® Access Commander

software for managing 2N IP intercoms and access units

### 2N® Network Scanner

an application for detecting 2N IP intercoms and access control units on the network

### 2N® My2N

an application for unlocking the door remotely with a mobile phone

# Versions

Order No. **9154100**

Name **2N® IP Audio Kit**



## Technical parameters

### Signalling protocol

SIP 2.0 (UDP)

### Audio stream

RTP/RTSP  
Protocols

G.711 Codecs

Volume control adjustable, with auto adaptive mode

Full duplex Yes (AEC)

### Power supply

From an external source Typically 12V DC (9-26V DC), max. 2A

PoE 802.3af (Class 0 – Max. 12.95W)

### LAN interface

LAN interfaces available 1

PoE 802.3af

Parameters 10/100BASE-TX with Auto-MDIX, RJ-45

Recommended wiring Cat-5e or better

Supported protocols SIP2.0, DHCP opt. 66, SMTP, 802.1x, RTSP, RTP, TFTP, HTTP, HTTPS, Syslog

### Audio interface

Microphone input Basic electric microphone

Amplifier output Amplifier class D, output MONO, THD < 1% Max. 10W/4Ω Max. 5W/8Ω Max. 2.5W/16Ω

Line output 600Ω

### Buttons/keypad interface

Number of buttons Up to 16 independent buttons in a 4 x 4 matrix

Matrix outputs 4 (ROW1-4 connectors), Uout < 0,1V (L), Uout > 3,2V (H), max. 8mA

Matrix inputs 4 (COL1-4 connectors), Uin < 1,15 (L), Uin > 2,15V, max. Uin = 5V

### LED indicator outputs

Number of outputs 3 (LED1+-, LED2+- and LED3+- connectors)

Output current Typically 20mA

Output voltage Max. 12V (note. 1)

### Digital outputs

Number of outputs 2 (OUT1+- and OUT2+- connectors)

Type of outputs Power output with short circuit protection

Output voltage 12V (note. 1)

Active switch output 7 to 11V DC depending on Power supply (PoE: 10V; adapter: source voltage minus 2V, max. 11V DC), max 400mA

### Logical inputs

Number of inputs 2 (IN1+- and IN2+- connectors)

Input type Galvanically isolated inputs (optocouplers)

Characteristics Uin < 1,1V (L), Uin > 3V (H), max. Uin = 32V

### Relay output

Number of outputs 1 (NC, NO, COM connectors)

Limiting parameters (DC) Max. 30VDC/1A

Limiting parameters (AC) Max. 125VAC/0.3A

### Mechanical properties

Operating temperature -40°C – 55°C

Operating relative humidity 10%-95% (non-condensing)

Storage temperature -40°C – 70°C

Dimensions 142 x 98 x 34mm (order number 9154100),

Weight max. 280g (order number 9154100),

Ingress Protection IP20 (order number 9154100)

Mounting on wall, or DIN rail

Note 1: If the device is supplied connected to a DC voltage source and the power supply voltage is below 12V, then the output voltage is limited to the value of the supply voltage.

### Warranty

5-years warranty see [https://www.2n.com/en\\_GB/support/warranty-and-repairs](https://www.2n.com/en_GB/support/warranty-and-repairs)