## 2N® IP Audio Kit 2N IP Intercoms







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.



Parking systems Information boards Industrial facilities Emergency points ATMs

# 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  $2N^{\circ}$  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.

## N® IP Audio Kit

#### 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.

#### Remote control

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

#### User defined sounds

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

#### 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.



TICKET SALE

Signal	ling	protocol	
	9	p	

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 (9-36V DC), max. 2A 802.3af (Class 0 - Max. 12.95 W)

PoE

#### 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

Max.  $10W/4\Omega$ Max. 5W/8Ω Max. 2.5W/16Ω

6000 Line output

### **Buttons/keypad interface**

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

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

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

connectors)

Output current Typically 20mA Output voltage Max. 12V (note. 1)

#### **Digital outputs**

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

Power output with short circuit Type of outputs

protection

Output voltage 12V (note. 1)

7 to 11 V DC depending on Power supply Active switch output (PoE: 10 V; adapter: source voltage

minus 2 V, max. 11 V DC), max 400 mA

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

#### **Mechanical properties**

Operating temperature -40°C - 55°C

Operating relative

humidity

10%-95% (non-condensing)

Storage temperature -40°C-70°C Dimensions 142x98x34 mm

Weight max. 280c Ingress Protection IP20 Mountingon wall, or DIN rail

Note

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.

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\* Mobile Video - an application for unlocking the door remotely with a mobile phone