



2N® IP Audio Kit

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.

2N® 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 easily integrated 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 $2N^{\circ}$ 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.



HORET SALE

Signalling protocol

Number of outputs

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 (9-36V DC), max. 2A	
PoE	802.3af (Class 0 - Max. 12.95 W)	
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. $10W/4\Omega$	
	Max. 5W/8Ω	
	Max. $2.5W/16\Omega$	
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 —		

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 11 V DC depending on Power supply (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
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	142x98x34 mm(ord. ref. 9154100)
	138x90x26 mm (ord. ref. 9154101)
Weight max.	280g (ord. ref. 9154100) max. 150g (ord. ref. 9154101)
Ingress Protection	IP20 (ord. ref. 9154100) IP00 (ord. ref. 9154101)
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.

 ${\bf 2N^*}$ Access Commander – software for managing 2N IP intercoms and access units

3 (LED1+-, LED2+- and LED3+-

connectors)

2N® Network Scanner - an application for detecting 2N IP intercoms and access control units on the network

 ${\bf 2N}^*$ Mobile Video - an application for unlocking the door remotely with a mobile phone