



The 2N® IP Audio Kit is an OEM intercom for manufacturers of various devices, such as parking systems, information boards, industrial equipment or ATMs. Once installed in your system, it will enable you to enjoy not only audio communication, remote monitoring and control, but it will also handle your connection with the user. This gives you an advantage over the competition and provides your customers with the comfort of a live operator and the option of seeking advice by merely pushing a button.

Sophisticated software functions enable the 2N® IP Audio Kit to be set up so that it not only enhances your device's features, but also, in conjunction with your device, provides the customer with high user value. Communication takes place through a SIP 2.0 protocol, which is standard for VoIP telephony. In addition, with SIP intercoms you can also take advantage of cheap internet calls or connection via an IP PBX. Like other products in the 2N® 2N IP range, the Audio Kit is compatible with global manufacturers' PBX.

Areas of use:

- Letterbox systems
- Building facades
- Barrier systems / parking decks
- Automatis tellers and pay stations
- Elevator
- Information points / information boards

Highlights:

- SIP rear electronics with Ethernet connection
- Up to 16 external buttons/matrix keypad connection
- 2 digital inputs, 1 digital output
- 2 logical Inputs
- Configuration via web browser
- DHCP or static IP
- Up to 3 telephone numbers to each button
- Activation of outputs via DTMF
- Full duplex
- Power from an adapter or PoE

All specifications subject to change without notice or liability to provide changes to prior purchasers. Information and specifications published here are current as of the date of publication of this document. We reserve the right to change or modify specifications without prior notice. www.satelco.ch

Technical Data:	
IP Parameters	
Signalling	SIP 2.0 (UDP)
Audio Codec	G.711
Protocols Audio	RTP (G.711)/ RTSP
IP Protocols	IPv4, ARP, TCP, UDP, DHCP, HTTP/HTTPS, IP 2.0, SNMP, TFTP, SMTP
Power supply	
External	12 V DC (9-36 V DC), max. 1,5 A
PoE (Power over Ethernet)	802.3af (Class 0 – Max. 12.95 W)
LAN interface	
	2x LAN (1+2), 10/100BASE-TX with Auto-MDIX, RJ45
	PoE 802.3af (LAN 1 only)
Recommended cabling	Cat-5e or higher
Reset-Button	
	Button for factory reset, reboot and IP switching (DHCP / Static)
Audio-Modul interface	
	Schnittstelle zum Anschluss des externen Tasten- und LED-Modules
Audio interface	
Microphone input	Standard electret microphone
Line input	Max. 755 mV RMS, Rin = 47k Ω
Amplifier output	Max. 10W amplifier of Class D, MONO output, THD<1%, min. loudspeaker impedance: 4 Ω
Line output	Max. 755 mV RMS, Route = 600 Ω
Acoustic echo cancelling	AEC, full duplex
Button/keypad interface	
Number of buttons	Up to 16 independent buttons in a 4 x 4 Matrix, user programmable
Matrix-Inputs	4 (COL1-4 terminals) Uout < 0,1V (L), Uout > 3,2 V (H), max. 8 mA
Matrix-Outputs	4 (ROW1-4 terminals) Uin < 1,15V (L), Uin > 2,15 V (H), max. Uin = 5V
Outputs for LED control	
Number of outputs	3 (LED1+-, LED2+- an LED3+- clamps)
Digital outputs	
Numbers of outputs	2 active digital outputs 12 V/650 mA, (OUT1+- und OUT+-)
Digital inputs	
Number of inputs	2 galvanically isolated inputs (IN1+- und IN2+-)
Relay output	
	1 potentialfree Relay (NC oder NO)
Limit DC	Up to 30 V DC / 1 A
Limit AC	Up to 125 V AC / 0,3 A
Mechanical	
Operating temperature range	-40 °C bis +55 °C
Relative humidity	10 % bis 95 % (non-condensing)
Storage temperature range	-40 °C bis +70 °C
Dimensions	142 x 98 x 34 mm
Weight	ca. 280 g
Protection class	IP 20
Mounting	Wall mounting or DIN rail mounting (TS 35 DIN rail)

* warranty ex works, normally 24 months, fixed at order. Information is current as of the date of publication. Subject to errors and modifications. / NOTE: Internal connections refer to connections inside the unit, generally mounted across a pin-header. External connections refer to those outside the box. Once mounted, only connections described as "front accessible" can be accessed by the customer.