

IP-based Intercom Unit with Voice Control



vicCOM IP is a platform for the creation of customised, IP-based communication devices like intercoms, IP-amplifiers, cameras or IP-telephones. vicCOM IP provides outstanding quality of audio transmission, a crystal-clear full-duplex hands-free functionality as well as unique ergonomics through local voice control. The platform can be adapted easily to various applications by connecting peripheral devices. Efficient software allows users an easy configuration. Via an integrated Web-GUI it is possible to create phone lists and to include used peripheral devices in the configuration of communication and multimedia call flows. Integrated state-of-the-art hands-free algorithms guarantee a crystal-clear, interference-free communication during full-duplex operation. The vicMEDIA VoIP-framework enables SIP based telephony and audio-video streaming as well as the seamless usage of connected audio peripherals. The integrated, local voice control* provides touch-free initiation of communication functionalities as well as control of building automation - in 30 languages and with greatest possible privacy without the need to connect to any cloud services!

Product Features

- System kit for IP intercom units
- Full-duplex audio communication and hands-free talking
- Acoustic echo cancellation (AEC) and adaptive noise reduction (ANR)
- Voice-controlled target call
- Variable user interface (e.g. buttons, keypad, LEDs, display)
- Extensive system configuration via web interface
- Supports SIP protocol
- PoE+ power supply and supply of connected PoE devices (e.g. cameras)

Applications

- Intercom systems in utility vehicles
- Intercom units for medical applications
- Industrial communication
- Intercoms in elevators
- PA-systems in public places
- Emergency call systems
- Building communication

vicCOM IP

Platform for IP-based Communication.



voice INTER connect

Technical Data

Connectors



Name	Description
DC IN	Power supply
ETH_0	10/100 MBit/s ethernet and PoE IN
ETH_1	10/100 MBit/s ethernet and PoE OUT
HS	Headset connector (3,5 mm jack)
MIC	Connector for electret microphone
Line_IN	Audio input
Line_OUT	Audio output
SPK	2 Loudspeaker connectors
I ² S	Connector digital audio components
audioRTBUS	Connector for audioRTBUS
USB_2	USB-C connector 1 (Host)
USB_1	Micro-USB connector 2 (OTG and Host)
UART	UART connector
I ² C	HMI connectors (keypad, touch etc.)
SPI	Extensions (sensors, converters etc.)
DISPLAY	Via adapter over SPI, I ² C
4 x IN	Buttons connectors
2 x IN	Potential-free inputs
KEYPAD	Keypad connector (10 pins)
5 x OUT	LED connectors
2 x OUT	Potential-free outputs

General Data

Power supply:	9 ... 28 VDC
PoE IN:	802.3at (PoE+)
PoE OUT:	802.3af (PoE)
Current consumption:	approx. 90 mA
Power consumption:	approx. 15 W
Ethernet:	RJ45
USB:	OTG and Host
Inputs/Outputs:	Plug-in screw clamp
Headset:	Combined headphone jack (3.5 mm)
Speaker connection:	2 x 10 W (4 Ohm)
Microphone connection:	Electret capsule
Ambient temperature:	-40° C ... 65 °C
Dimensions (L x W x H):	(130 x 96.5 x 17.5) mm
Form factor:	Module, double-sided
Weight:	approx. 100 g

Functional Principle

vicCOM IP is dedicated to audio communication and device control in IP networks.

Due to various interfaces and a powerful, pre-integrated software framework, the intercom unit can be used easily for the design of customized communication devices.

An integrated Web-GUI allows for parameterization of audio functionalities, control sequences and connected periphery as well as status surveillance of the device.

Operation simply works not only via buttons, keypads or display, but for the first time in industry also via integrated voice control*.

Power is supplied via PoE+ or DC IN. So, additional connected PoE devices like cameras can be supported over the platform.

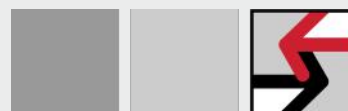
All vicCOM IP can communicate with each other directly (without SIP server).

Digital IOs enable the control of building automation functions (e.g. light, door opener functions). The connection of further standard peripherals is possible via USB.

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vicCOM IP

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voice INTER connect

voice INTER connect GmbH
Ammonstraße 35
01067 Dresden

Tel.: +49 351 407 526 50

info@voiceinterconnect.de
www.voiceinterconnect.de