



## vicCOM IP

### Platform for IP-based Communication

vicCOM IP is a platform for the creation of customised, IP-based communication devices like intercoms, IP-amplifiers, cameras or IP telephones. It provides outstanding audio transmission quality with crystal-clear full-duplex hands-free functionality as well as unique ergonomics through local voice control (optional).

The platform can be adapted easily to various applications by connecting peripheral devices. The efficient software allows for an easy configuration by the user for each desired application. 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.

#### PRODUCT FEATURES

- System kit for IP intercom units
- Crystal-clear full-duplex audio communication with digital signal processing (acoustic echo cancellation (AEC) and adaptive noise reduction (NR))
- Native SIP protocol support through vicMEDIA framework
- Server-free connection with other intercom units or SIP phones via Ethernet
- Comfortable integrated system configuration via web interface
- Compatibility with Asterisk, 3CX and other SIP-PBX
- Supports various IT security features

#### APPLICATIONS

- Intercom systems in utility vehicles
- Intercom units for medical applications
- Industrial communication and control centre technology
- Intercoms in elevators
- Public address systems in public places
- Emergency call systems in tunnels, on motorways, in call pillars, car parks and vending machines
- Building communication and access technology

## 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 <sup>2</sup> 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 <sup>2</sup> C	HMI connectors (e.g. keypad, touch)
SPI	Extensions (e.g. sensors, converters)
DISPLAY	Connectable via adapter over SPI, I <sup>2</sup> C
4 x IN	Button 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. 70 mA (at 12 V)
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

## FUNCTIONALITY

vicCOM IP is designed for audio communication and device control in IP networks.

Equipped with numerous interfaces and powerful software, vicCOM IP can be used to create customised communication devices easily and without programming effort.

An integrated WEB-GUI allows for parameterisation of audio functionalities, control sequences and connected periphery as well as status surveillance of the device. Call and control functions are triggered via buttons, keypads or display. Telephone book entries can be assigned to speed dialling keys.

Power is supplied either via PoE+ or DC IN. Other connected PoE devices (such as cameras) can also be supported over the platform.

All vicCOM IP platforms can communicate with each other directly (without SIP server). The module natively supports paging (RTP paging) and prioritisation (for emergency and information calls).

Digital IOs enable the control of building automation functions (e.g. light, door opener functions) and the connection of sensors.

USB allows the connection of further standard peripheral modules.

**ORDER NOW**

vicCOM IP order number: 0026-38



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