

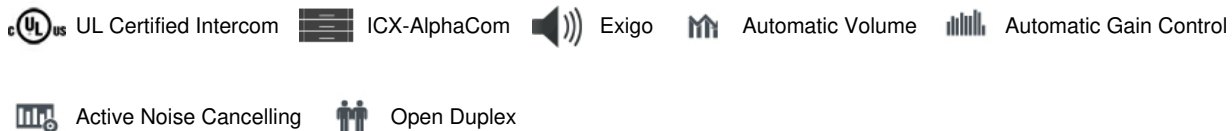
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## TKIS-2 Audio Intercom Kit

VoIP Intercom Module



- ✓ Build your own IP Intercom station or Help-Point
- ✓ Make your own 10W IP Speaker
- ✓ Control relay and I/Os over IP
- ✓ Supports AlphaCom, IC-EDGE and SIP (for use with any IPBX)
- ✓ Supports a wide set of IP networking standards
- ✓ ONVIF Compatible
- ✓ Add VoIP/CCoIP to your parking solution, cash point, vending machine, et al
- ✓ Remote software upgrade, configuration and monitoring
- ✓ Powered over Ethernet (PoE)

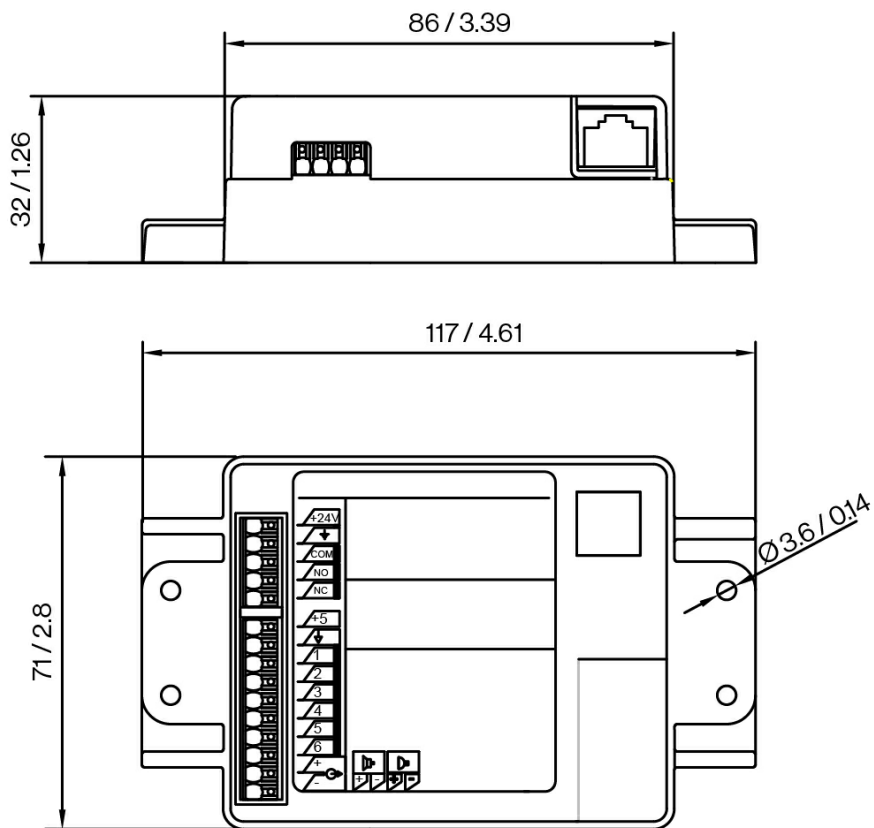


## Description

The VoIP Intercom Module utilizes the latest technology to create unparalleled audio quality. Some of the many features include: HD voice quality, Open Duplex, Active Noise Cancellation, Automatic Volume Adjustment, MEMS microphone support, and a 10W Class D amplifier. These features, in conjunction with Vingtor-Stentofon's 70 years of experience with acoustic technology are only a few of the many factors that make our audio quality second to none.

See also: [additional documentation on wiki.zenitel.com](http://wiki.zenitel.com)

## Technical Dimensions



All dimensions in mm / in

# Specifications

## AUDIO

|  |  |
|--|--|
| Noise cancelling - suppression of musical noise          | YES  |
| Noise cancelling - suppression of static noise           | YES  |
| Noise cancelling - suppression of rapidly changing noise | YES  |
| Codecs   | G.711, G.722, G.729  |
| Frequency range, G.722 Codec                             | 200 Hz – 7000 Hz   |
| Audio technology   | Modes: Full open duplex, switched open duplex, Adaptive jitter filter, Local tone generator, Audio mixing - 3 channels, Sound level detection (scream alarm), Automatic gain control (microphone), Automatic volume adjustment |
| Internal speaker amplifier                               | 10 W class D   |
| Supported microphone technologies                        | Digital MEMS, omnidirectional microphone. Electret omnidirectional microphone  |
| Recommended loudspeaker impedance                        | 8 ohm  |

## HARDWARE

|  |   |
|--|---|
| Ethernet connector                     | 1 x RJ 45   |
| All other connectors                   | Tool less, spring loaded, vibration proof terminals |
| General inputs and outputs             | 6 (configurable)                                    |
| Outputs                                | 12mA as LED drivers                                 |
| Change-over relay (NO+NC+COM)          | Max: 250VAC/220VDC, 2A, 60W                         |
| Power options                          | PoE and or external power supply                    |
| PoE (power over Ethernet)              | IEEE 802.3af standard, Class 0 (0.44W to 12.95 W)   |
| External power supply                  | 24 VDC (16 – 48 V)                                  |
| Power consumption                      | Idle 1.8W, max 12W (depending on volume)            |
| Audio line out / induction loop signal | 600 Ohm   |

## NETWORKING AND PROTOCOLS

|                                |  |
|--------------------------------|--|
| Protocols                      | IPv4 (with DiffServ), SIP, TCP, UDP, HTTPS, TFTP, RTP, DHCP, SNMP, ONVIF, CCoIP®, NTP                                  |
| LAN protocols                  | Power over Ethernet (IEEE 802.3 a-f) Network Access Control (IEEE 802.1x)  |
| Management and operation       | HTTP/HTTPS (Web configuration) DHCP and static IP + IC-EDGE. Remote automatic software upgrade. Centralized monitoring |
| Advanced supervision functions | E.g. network test, tone test, status reports   |
| SIP support                    | RFC 3261 (SIP base standard), RFC 3515 (SIP refer), RFC 2976 (SIP info)  |
| DTMF support                   | RFC 2833, 2976 (SIP info)  |

## ENVIRONMENT AND COMPLIANCES

|                             |  |
|-----------------------------|--|
| Operating temperature range | -40° to 70° C / -40° to 158 ° F            |
| Storage temperature range   | -40° to 70° C / -40° to 158 ° F            |
| Relative humidity           | < 95% not condensing                       |
| EMC                         | CE and FCC Part 15                         |
| Certificates                | UL 60950-1, cUL 60950-1, CB to IEC 60950-1 |

## OTHER SPECIFICATIONS

|                        |   |
|------------------------|---|
| IP address information | Speaks IP address after system boot (requires connected loudspeaker)          |
| Country of manufacture | Poland  |
| Dimensions (HxWxD)     | 32 x 117 x 71 mm  |
| Weight                 | 0.1 kg / 0.2 lbs  |
| Encapsulation material | ASA plastic   |
| DIN-rail clips         | Wago 209 (included)   |
| Warranty               | 2 Years standard warranty, extendible up to total of 5 years (additional fee) |

## Accessories



TA-16



TA-17



IP-LCM-A

IP Line Expansion Module with Inputs/Outputs

## Used With



TKIA-2

Analog over IP Gateway



TCIA-2

Analog over IP Intercom



TCIA-2-P

Package with TCIA-2,TKIA-2,TKIS-2