

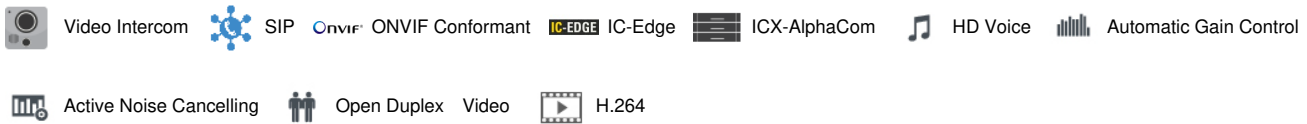
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TKIV+ Video Intercom kit

Turbine Video - VoIP Intercom Module



- ✓ Build your own IP Intercom video station or Help-Point
- ✓ Add VoIP and video to your parking solution, cash point, vending machine, et al
- ✓ Advanced audio technology like automatic gain and volume adjustment, background noise cancellation, open duplex, etc.
- ✓ HD Video at up to 30 frames per second in 1440x1080p
- ✓ Wide angle lens
- ✓ ONVIF Profile S conformant
- ✓ MJPEG and H.264
- ✓ Control relay and I/Os over IP
- ✓ Supports ICX-AlphaCom, IC-EDGE and SIP
- ✓ Supports a wide set of IP networking standards
- ✓ Powered from the IP network cable using Power over Ethernet (PoE and PoE+)



Description

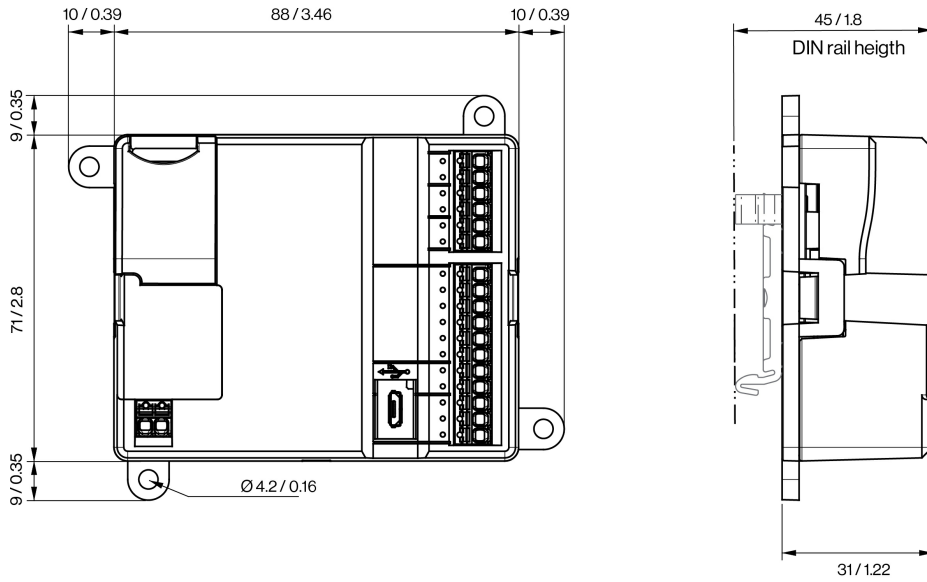
The TKIV+ Turbine Compact Intercom Video Kit combines the unrivaled high-quality audio of Zenitel's Turbine Compact Series with exceptional video.

It provides partners with the opportunity to use our technology to build their own video intercom stations.

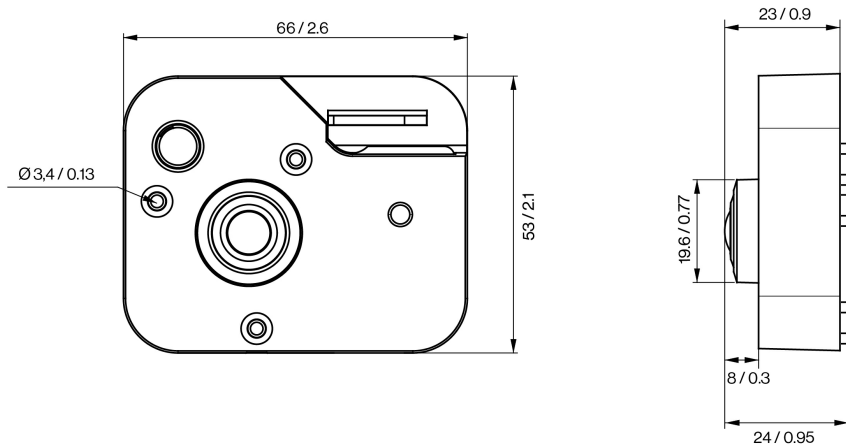
[See Zenitel Wiki for more information](#)

Technical Dimensions

Dimensions CPU module



Dimensions camera module



All dimensions in mm / in

Height with spacer rings

Specifications

AUDIO

| | |
|---|--|
| SPL peak power at 1m in open duplex | 90 dB |
| SPL peak power at 1m in half duplex | 100 dB |
| SPL peak power at 1m in program distribution and announcement | 100 dB |
| Noise cancelling - suppression of musical 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 buffer Custom Ringing Tone Audio Mixing – Conversation and Group Call Sound Level Detection / scream alarm (only in AlphaCom) Automatic gain control (microphone) |
| Internal speaker amplifier | 10 W class D |
| Internal speaker | 10 W |
| Microphone technology | Digital MEMS, omnidirectional microphone |
| Automatic Volume Control (AVC) | Yes |
| Acoustic Echo Cancellation (AEC) | Yes |

VIDEO

| | |
|-----------------------|---|
| Image Sensor | 1/2.5" RGB CMOS |
| Lens | F 2.0, fixed iris |
| Light Sensitivity | Down to 1 lux |
| Resolution | 240 / 480p / 960x720p / 1440x1080p* |
| Frame Rate | Up to 30 FPS in 1440x1080p** |
| Supported Codecs | MJPEG, H.264 *** |
| Digital PTZ | Yes |
| Digital Zoom | Up to 4x |
| Field of View | Configurable up to 180 degrees horizontally and vertically |
| Snapshot Function | No |
| IR LED | No |
| Parallel videostreams | 6 (1x SIP H.264, 2x HTTP MJPEG, 3x RTSP sessions) |
| | * MJPEG does not support 720p and 1080p resolution. |
| | ** 30 FPS is only supported in H.264 mode, while MJPEG is limited to 10 FPS. |
| | *** ICX-AlphaCom mode supports only RTSP H.264 mode, while other modes support SIP H.264. |

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) | SELV |
| Power options | PoE, PoE+, external power supply |
| PoE (Power over Ethernet) | IEEE 802.3af standard, IEEE 802.3at |
| External power supply | 24VDC - 48VDC |
| Power consumption | Idle 3.5W, max 12W (depending on volume) |
| Audio Line out / Induction loop signal | 600 OHM |
| Length of included camera connection cable | 100 mm |

PROCESSOR / CHIPSET

| | |
|-----------------|----------------|
| CPU cores | 4 x Cortex-A53 |
| CPU Clock Speed | 1.6 GHz |
| RAM | 512MB LPDDR4 |
| Flash | 1 Gb |
| Video encoder | MJPEG, H.264 |
| Dual Image | Yes |

CONSTRUCTION

| | |
|----------------------------------|------------------|
| Dimensions CPU module (HxWxD) | 89 x 108 x 31 mm |
| Dimensions camera module (HxWxD) | 53 x 66 x 23 mm |

NETWORKING & PROTOCOLS

| | |
|--------------------------------|---|
| Protocols | IPv4 (with DiffServ), SIP, TCP, UDP, HTTPS, TFTP, RTP, RTSP, RTCP, SRTP, DHCP, SNMP, Vingtor-Stentofon CCoIP®, NTP, ONVIF, WS-Discovery |
| LAN protocols | Power over Ethernet (IEEE 802.3 a-f), Power over Ethernet (IEEE 802.3at) |
| Management and operation | HTTP/HTTPS (Web configuration). DHCP and static IP. Remote automatic software upgrade. Centralized monitoring. |
| Advanced supervision functions | E.g network test, tone test, status reports (only in AlphaCom) |
| SIP support | RFC 3261 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP info), SIP using TLS, RFC 5630 SIPS URI scheme |
| DTMF support | RFC 2833, 2976 (SIP info) |
| Integration and API | AlphaCom, Scripting (plugins) |

ENVIRONMENTAL

| | |
|-----------------------------|---------------------------------|
| Operating temperature range | -30° to 70° C / -22° to 158 ° F |
| Storage temperature range | -40° to 70° C / -40° to 158 ° F |

CERTIFICATIONS

| | |
|-------------------|-------------------------------|
| ONVIF Conformance | Profile S for streaming video |
|-------------------|-------------------------------|

OTHER SPECIFICATIONS

| | |
|------------------------|---|
| IP address information | Speaks IP address after system boot |
| Country of manufacture | Poland |
| Warranty | 2 Years standard warranty, extendible up to total of 5 years (additional fee) |

Accessories



TA-16



TA-17

Used With



ITSV-4

HD IP Video Phone with 5" Screen



ITSV-5

HD IP Video Phone with 8" Screen