



1008116010





## TMIS-1

Turbine Mini Intercom

**TOP PICKS**  
*Compiled by Security Products' Staff*



- ✓ Background noise cancellation
- ✓ Built to last with robust die-cast aluminum frame
- ✓ Supports wide set of IP and networking standards
- ✓ White thermoplastic front plate with one button
- ✓ ONVIF Compatible
- ✓ Ideal for Building Security and Public Environments

 UL Certified Intercom  HD Voice  Automatic Gain Control  Active Noise Cancelling

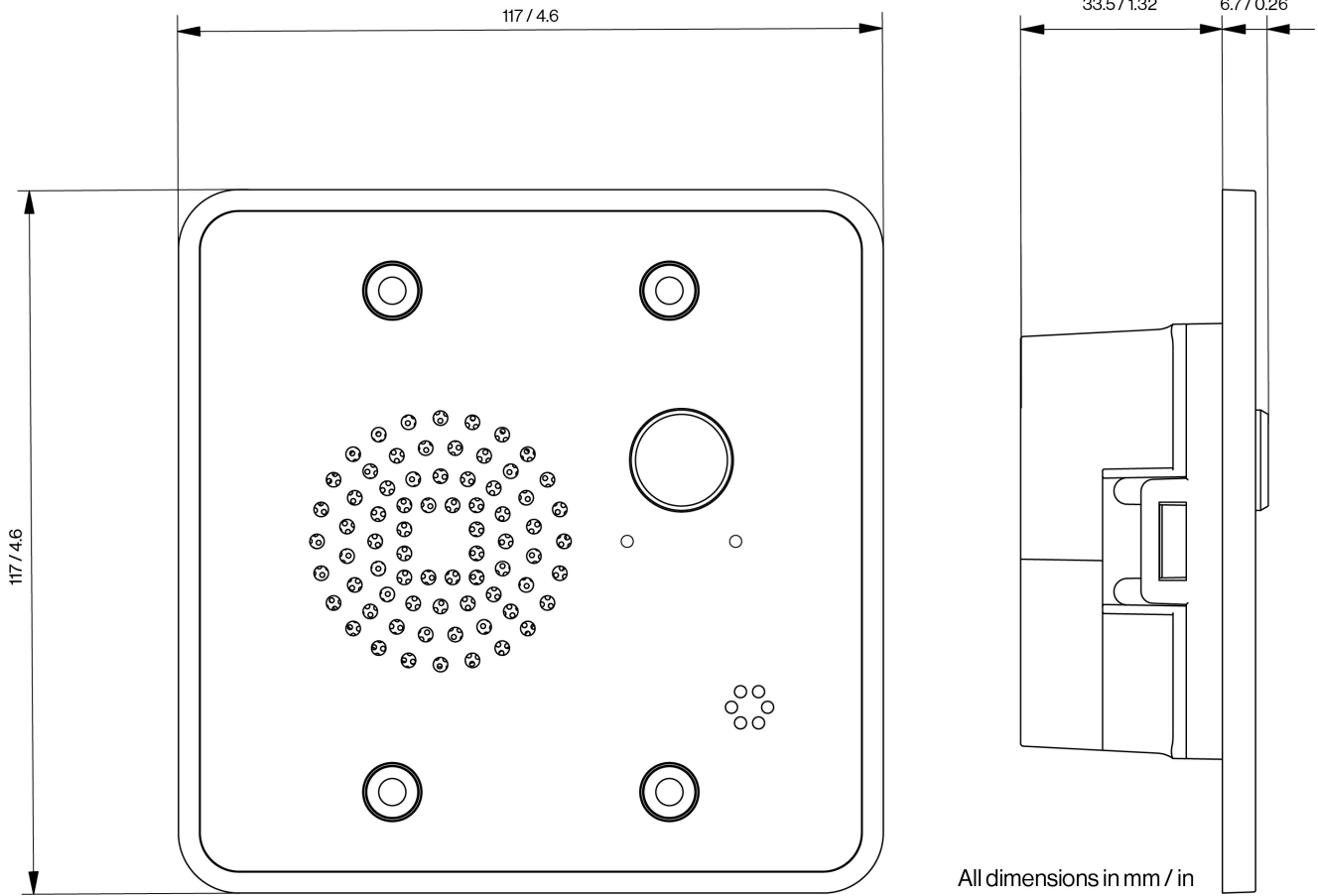
## Description

All IP stations in the Turbine series utilize the latest technology to create unparalleled audio quality. Some of the many features include: HD voice quality, Open Duplex, Active Noise Cancellation, MEMS microphone, and a Class D amplifier.

These features, in conjunction with our 65+ years of experience with acoustic technology are only a few of the many factors that contribute to the superior audio quality of our products.

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

# Technical Dimensions



# Specifications

## AUDIO

|   |   |
|---|---|
| SPL rated power at 1m                           | 90 dB   |
| Noise cancelling - suppression of musical noise | YES   |
| Noise cancelling - suppression of static 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,<br>Adaptive jitter filter<br>Custom Ringing Tone<br>Audio Mixing – Conversation and Group Call<br>Sound Level Detection / scream alarm (only in AlphaCom)<br>Automatic gain control (microphone) |
| Internal speaker amplifier                      | Class D   |
| Microphone technology                           | Digital MEMS, omnidirectional microphone  |
| Automatic Volume Control (AVC)                  | Undistorted and clear audio   |
| Acoustic Echo Cancellation (AEC)                | Prevents audio feedback even at high volumes  |
| Internal speaker amplifier                      | 10 W class D  |
| Internal speaker                                | 1 W   |

## HARDWARE

|  |   |
|--|---|
| Ethernet connector                     | 1 x RJ45  |
| 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 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                      | 2.8 W   |
| Audio line out / Induction loop signal | 0 dBu / 600 Ohm                                     |
| Button backlight                       | LED   |
| Call indication                        | Icons/colors for hearing impaired                   |

## CONSTRUCTION

|   |   |
|---|---|
| Dimensions (HxWxD)                                  | 117 x 117 x 39 mm   |
| Dimensions after flush mount                        | 117 x 117 x 5.5 mm  |
| Weight  | 0.3 kg  |
| Button material                                     | 3 mm / 0.12"<br>Polycarbonate<br>(transparent)                |
| Faceplate material                                  | 2 mm / 0.12" PMMA,<br>colour printed on back<br>side          |
| Base / frame material                               | 3 mm / 0.12" Aluminum<br>alloy - A413.0,<br>AlSi12Fe, painted |
| Electronics cover material                          | Polycarbonate<br>(translucent)                                |
| Loudspeaker poke protection, large diameter objects | Thermoplastic faceplate<br>with machined grille               |
| Loudspeaker poke protection, small diameter objects | Stainless steel mesh,<br>acoustically transparent             |

## NETWORKING & PROTOCOLS

|                                   |   |
|-----------------------------------|---|
| Protocols                         | IPv4 (with DiffServ),<br>SIP, TCP, UDP,<br>HTTPS, TFTP, RTP,<br>SRTP, DHCP, SNMP,<br>ONVIF, CCoIP®, NTP                         |
| LAN protocols                     | Power over Ethernet<br>(IEEE 802.3 a-f),<br>Network Access Control<br>(IEEE 802.1x)   |
| Management and<br>operation       | HTTP/HTTPS (Web<br>configuration), DHCP<br>and static IP + IC-<br>EDGE, Remote<br>software upgrade,<br>Centralized monitoring   |
| Advanced supervision<br>functions | E.g network test, tone<br>test, status reports (only<br>in AlphaCom)  |
| SIP Support                       | RFC 3261 (SIP base<br>standard), RFC 3515<br>(SIP refer), RFC 2976<br>(SIP info), SIP using<br>TLS, RFC 5630 SIPS<br>URI scheme |
| DTMF Support                      | RFC 2833, 2976 (SIP<br>info)  |

## ENVIRONMENT & COMPLIANCES

|                             |                                |
|-----------------------------|--------------------------------|
| Ingress Protection rating   | IP-42                          |
| UV-resistant                | YES                            |
| Operating temperature range | -25° to 55° C / -13° to 131° F |
| Storage temperature range   | -25° to 55° C / -13° to 131° F |
| Relative humidity           | < 95% non-condensing           |
| EMC                         | CE and FCC part 15             |
| Certification               | UL 62368-1, EN 62368-1         |
| Compliances                 | EN 61000-6-1, EN 61000-6-3     |

## OTHER SPECIFICATIONS

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

## Accessories





TA-2

US 2-Gang 3 1/2" Deep  
Backbox



TA-3

2 1/2" Deep Flushmount  
Backbox for Turbine  
Compact & Mini



TA-13

Turbine Mini On-Wall Back  
Box White