

1008132035

## TKIE-3CC | IP Intercom Kit

Extended IP Kit with Conformal Coating



- ✓ Conformal coated electronics (CC) - for enhanced protection in humid, dusty, or corrosive environments
- ✓ Flexible integration options - with dual RJ45 Ethernet ports (integrated switch), dual DPDT relays, six configurable I/Os (input, output, or LED-driving), and a 5x5 keyscan matrix for external keypad support
- ✓ Advanced Audio Technology - High sound pressure levels, automatic volume gain control, and active noise and echo cancellation for superior clarity.
- ✓ Seamless Integration - Fully compatible with Zenitel Connect Pro, ICX-AlphaCom, IC-EDGE, and SIP-based systems.



SIP



ONVIF Conformant



IC-Edge



ICX-AlphaCom



HD Voice

### Description

The TKIE-3CC is an enhanced model in our IP Intercom Kit range, building on the proven audio performance of the TKIS-2. It delivers the same high-quality sound while introducing a range of expanded features, including conformal coating for added environmental protection, dual RJ45 ports for Ethernet connectivity with an integrated switch, dual relays, a 5x5 keyscan matrix, and a dedicated header for easy integration of audio accessories.

For high-power control applications, the TKIE-3CC can be paired with the TA-10 Relay Module, which provides two DPDT relays suitable for high-voltage and high-current environments.

See also: Additional documentation is available at [wiki.zenitel.com](https://wiki.zenitel.com).

# Specifications

## AUDIO

|                                   |  |
|-----------------------------------|--|
| Codecs                            | G.711, G.722, G.729                          |
| Frequency range, G.722 Codec      | 200 Hz – 7000 Hz                             |
| Audio technology                  | Full open duplex, switched open duplex       |
|                                   | Sound level detection (scream alarm)         |
|                                   | Automatic gain control                       |
|                                   | Automatic volume control (AVC)               |
|                                   | Acoustic Echo Cancellation (AEC)             |
|                                   | Noise cancellation                           |
| Internal speaker amplifier        | 10 W class D                                 |
| Supported microphone technologies | Digital MEMS microphone, Electret microphone |
| Recommended loudspeaker impedance | 8 ohm  |

## NETWORKING AND PROTOCOLS

|                       |   |
|-----------------------|---|
| Application Protocols | SIP, SIPS, HTTP, HTTPS, TFTP, RTP, SRTP, RTCP, RTSP, DHCP, SNMP, Vingtor-Stentofon CCoIP®, NTP, ONVIF, WS-Discovery |
| IP Versions           | IPv4 & IPv6   |
| LAN protocols         | Power over Ethernet (IEEE 802.3 a-f) Network Access Control (IEEE 802.1x)   |
| Supervision functions | Keep alive test, tone test, status reports  |
| 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   | Connected to ICX-AlphaCom through AlphaCom protocol ACDP  |
|                       | Connected to Zenitel Connect Pro through Zenitel Link   |
|                       | ONVIF   |

## HARDWARE

|                                |  |
|--------------------------------|--|
| Ethernet connectors            | 2 x RJ45   |
| General inputs and outputs     | 6 (configurable)                                       |
| Outputs                        | 12mA as LED drivers                                    |
| Change-over relays (NO+NC+COM) | Max: 250VAC/220VDC, 2A, 60W                            |
| Keyboard                       | 5x5 keyscan matrix                                     |
| Power options                  | PoE and or external power supply<br>24 VDC (16 – 48 V) |
| PoE (power over Ethernet)      | IEEE 802.3af standard, Class 0<br>(0.44W to 12.95 W)   |
| Power consumption              | Idle 1.8W, max 12W (depending on volume)               |

## CONSTRUCTION

|                        |   |
|------------------------|---|
| Dimensions (HxWxD)     | 65 x 100 x 25 mm / 2.6" x 4.0" x 1.0"   |
| Weight                 | 0.1 kg / 0.2 lbs  |
| Encapsulation material | N/A   |
| Warranty               | 2 Years standard warranty,<br>extendible up to total of 5 years<br>(additional fee) |

## ENVIRONMENTAL 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            |

## APPROVALS

|                |  |
|----------------|--|
| EMC            | EN 61000-6-1, EN 61000-6-3, EN<br>50121-4, FCC part 15 |
| Sustainability | REACH, RoHS  |

## Accessories



TA-23

Industrial Handset for Turbine with PTT

Item Number: 1008140230



TA-10

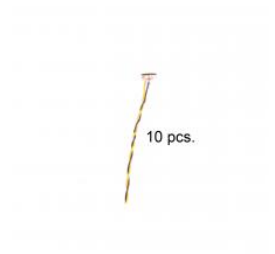
Relay Module

Item Number: 1008140100



TA-16

Item Number: 1008140160



TA-17

Item Number: 1008140170