

1008132010

TKIE-1

Turbine Extended IP Kit



- ✓ IP station kit with extended functionality
- ✓ Dual RJ45 for Ethernet connectivity (with switch)
- ✓ Dual relays (DPDT)
- ✓ 6 configurable I/Os (input, output or LED-driving)
- ✓ Line-in/Line-out connectivity for connection to audio devices
- ✓ Possibility for connecting high-power relay module (TA-10)
- ✓ High quality 10W amplifier
- ✓ Powerful audio technology including high sound pressure, automatic volume gain control, and active noise echo canceling

 Automatic Volume  HD Voice  Automatic Gain Control  Active Noise Cancelling  Open Duplex  Voice Activity Detection

Description

The TKIE-1 is the extended version of our Turbine Kit range. It offers the same high quality audio as the TKIS-x kit, but adds to the feature list with an extra RJ45 port for dual Ethernet connectivity, dual relays, and a header for easy connection of audio accessories. For high-power applications, the TKIE-1 may be complemented with the TA-10 Relay Module which offers 2 DPDT relays suited for high-voltage/high-current applications.

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

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 microphone |
| | Electret microphone |
| Recommended loudspeaker impedance | 8 ohm |

HARDWARE

| | |
|--|---|
| Ethernet connector | 2 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 relays (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, Vingtor-Stentofon 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 + Vingtor-Stentofon Pulse™ 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 |

OTHER SPECIFICATIONS

| | |
|------------------------|---|
| IP address information | Speaks IP address after system boot (requires connected loudspeaker) |
| Dimensions (HxWxD) | 65 x 100 x 25 mm / 2.6" x 4.0" x 1.0" |
| Weight | 0.1 kg / 0.2 lbs |
| Warranty | 2 Years standard warranty, extendible up to total of 5 years (additional fee) |

Accessories

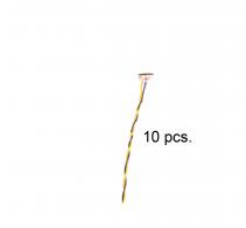


TA-10

Relay Module



TA-16



TA-17

10 pcs.