







1008132020

TKIE-2

Turbine Extended IP Kit



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

DESCRIPTION

The TKIE-2 is the extended version of our Turbine Kit range and our most flexible integration platform. It offers the same high quality audio as the TKIS-2 kit, and adds to the feature list with an extra RJ45 port for dual Ethernet connectivity, dual relays, and a header for easy connection of audio in and outputs, such as line-level inputs/outputs and audio accessories such as headsets/handsets.

The TKIS/TKIE range can be used as a point of integration for AlphaCom and Exigo systems towards legacy PAGA, radio systems, analogue PABX, etc.

The TKIE-2 offers I/O and signal relays. For high-power switching applications, the TKIE-2 may be complemented with the TA-10 Relay Module which offers 2 DPDT relays suited for high-voltage/high-current loads.

FEATURES

- 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
- Header for connecting audio accessories
- Possibility for connecting high-power relay module (TA-10)
- High quality Turbine™ class output with 10W amplifier
- Full open duplex and digital noise reduction
- Metal enclosure suitable for DIN-rail mounting

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 |

AUDIO

| | |
|--|-------------------------|
| | 10 W class D |
| | Digital MEMS microphone |
| | Electret microphone |
| | 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) |

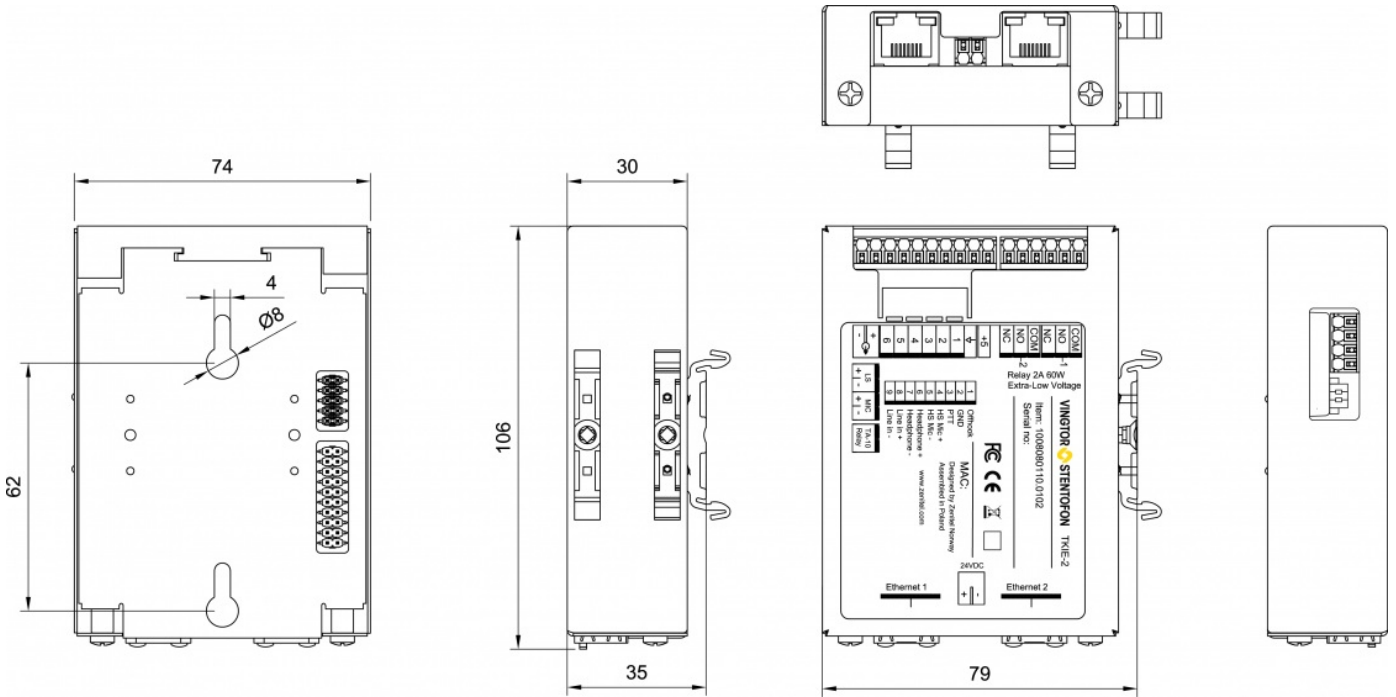
ENVIRONMENT AND COMPLIANCES

| | |
|-----------------------------|---------------------------------|
| 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 |
| Encapsulation material | Steel |

TECHNICAL DIMENSIONS



ACCESSORIES



TA-10

Item number: 1008140100



TA-16

Item number: 1008140160



10 pcs.

TA-17

Item number: 1008140170