Voice over IP Intercoms

IP intercom for emergencies on roads and in tunnels

IPefono SOS

The IPefono SOS is for voice and data communication between Help Posts on roads and in tunnels and a Control Centre where calls are received and system operation is carried out, using the IP network infrastructure.

Each IPefono SOS controls a master post and slave post, managing user and service calls, open door detection and battery level indicator.

Like all the devices in the IPefono family, it can be integrated in standard VoIP telephony platforms, Call Managers and VoIP PBX, provided that these support SIP (Session Initiation Protocol) or even to manage it just using a standard VoIP phone.

It offers advanced features like forwarding calls to a cell phone, **internal recording of calls** and can listen to the environment, etc, at the request of the Control Centre.

The main feature of the IPefono SOS is the audio quality. It uses the same network bandwidth as similar devices but offers a much clearer signal. In addition, it has the minimum audio delay that VoIP equipment can offer.

Another interesting feature is its excellent energy efficiency. It uses high-performance and low power consumption processors, as well as audio amplifiers with 96 % efficiency.

It has outputs for controlling doors, light,... It is also posible to know the inputs state.

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Technical Features

- Power supply: 12V. Nominal consumption: 1W, maximum consumption with audio: 4W.
- Industrial Temperature Range **from -40ºC to 85ºC**.
- Size oem board: 183mm x 100mm x 15mm.
- Class D audio amplifier. Power: **4.3 W**, **Energy efficiency: 96%**.
- One 100 BT Ethernet port, connecting up to 16 groups VLAN, IPv4/IPv6 QoS, IGMP snooping.
- DB25 connection for **master post** with user and service button, open door detection, two outputs for 8 Ω loudspeakers, battery input and microphone input.
- DB15 connection for **slave post** with user and service button, open door detection, two outputs for 8 Ω loudspeakers and microphone input.
- DB9 connection for power supply.
- Independent audio level adjustment for tones, ring signal, conversation, file playback and auxiliary input audio.
- Multiple algorithms for **echo cancellation**: duplex adaptive, Acoustic Echo Canceller or Push To Talk.
- Use of network bandwidth from 16 Kbps to 64 Kbps (headers not included).
- G711 (3.4 KHz), **G722** (7.1KHz) , G726 (3.4KHz) y **G729**(3.4KHz) audio codecs.
- Microphone noise gate with digital filtering.
- IP protocols: ARP, IP v4, ICMP, IGMP, TCP, UDP, DHCP, DNS, **SIP**, **SNMP**, HTTP, Telnet, RTP, RTCP, SNTP, ModBUS TCP, ModBUS UDP, Discovery Protocol (© by ConectaIP).
- **DGT protocol for PNE-135 road signage.**

Functional Features

- It connects with **standard SIP** systems (PBXs, VoIP gateways, VoIP phones, …).
- Equipment self-test system (microphone, loudspeaker, buttons and detectors).
- **Broadcast mode** to speak to several devices simultaneously .
- **WAV file playback** by activating digital inputs, HTTP commands or the call status.
- Software upgrade, configuration and remote administration with its internal Web server.
- Traces and diagnostics using Telnet .
- Free software tool available to enable **large scale verification** , **update and configuration**.
- Internal **recording of calls** and attempts made from the equipment, including date and time.
- For communication failures, multiple connection attempts.
- HTTP commands to playback WAV files, play tones, audio test and output activation.
- **Audiosensor** for activating outputs and making intercom calls.