

ZIP 2x1

IP Telephone

Overview

The ZIP 2x1 has all the functions of a business phone, and provides a backlit display for convenient viewing. The phone is referred to as a "two by one" because it has two call appearances and one Ethernet circuit. The phone is available in white and black.

The ZIP 2x1 is based on open standards. It uses SIP for call control, making it compatible with any IP phone system using the SIP standards. The Ethernet port on the phone supports all applicable standards for VLANs and QoS, ensuring that it is compatible with most networks, new or old. The phone is powered from an ac adapter.

The phone is simple for an administrator to install, manage, and maintain. After initial installation the phone can be moved anywhere in the network, normally without any reprogramming or rewiring.

Speech Quality

The phone is designed for high fidelity for the handset and speaker phone. These audio components are fine tuned to provide the best possible sound quality. The speaker phone has full duplex acoustic echo cancellation (AEC) so that the phone is fully functional as a speaker phone in an office or cubicle.

The phone incorporates Zultys' patented jitter buffer. This ensures that speech quality is optimal, even when the network has varying delays and lost packets. This technology provides a distinct advantage even within an office, but proves itself when communicating over a WAN or the Internet. Competitive phones without this feature will have poor quality audio under identical network conditions.

Hands Free Operation

The phone allows any standard headset to be inserted in series with the handset. You can configure the device to behave as an intercom so that all internal calls are automatically answered by the speakerphone after one ring. This feature allows users to be reached without needing to physically pick up the handset or headset.



Key Features

- *Uses SIP to operate with any standard IP phone system or network*
- *Supports all standard PBX functions*
- *Two call appearances support two simultaneous calls*
- *Graphical backlit LCD*
- *Buttons and keys for all commonly used functions*
- *Menus in multiple languages*
- *4 LEDs provide instant indication of status*
- *Speech quality ensured by QoS at the Ethernet and IP layers and comprehensive jitter buffer*
- *Speaker phone mode with acoustic echo cancellation for high quality audio*
- *Speech encryption for secure conversations*
- *Downloadable ring tones*
- *Menu, browser, and TFTP support for configuration and updates*
- *Based on highly stable embedded Linux operating system*

Physical Convenience

The ZIP 2x1 has the appearance of a modern business telephone set. There are 24 buttons and keys for convenient access to every feature, such as hold, transfer, conference, do not disturb (DND), call forward, and mute.

The ZIP 2x1 has selectable ring tones to indicate internal calls and external calls. These can be downloaded to the phone. The phone has selectable tones to indicate a second incoming call and that a call is on hold.

Physical and Environmental

Operating temperature: 10° C to 40° C (50° F to 104° F)

Storage temperature: 0° C to 50° C (32° F to 122° F)

Weight: 0.9 kg (2.0 lb). Shipping weight (box of 10) 9.7 kg (21.3 lb)

Size: 165 mm (W) x 190 mm (D) x 85 mm (H) (6.5" x 7.4" x 3.3")

Power: 3.5 W

Safety: IEC60950, UL60950, CAN/CSA- C22.2 No. 60950

Emissions: FCC part 15A, EN55022 class A

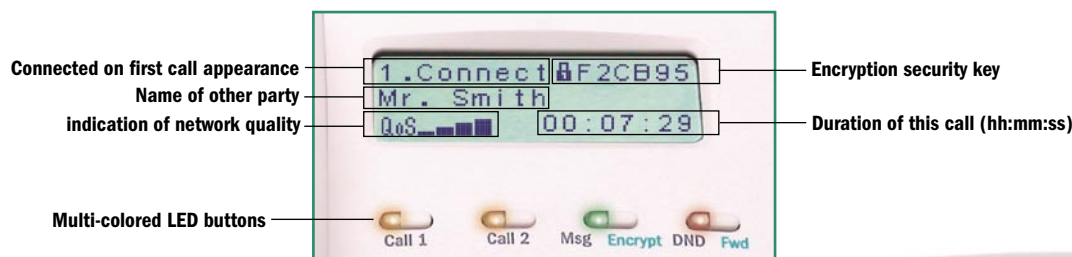
Immunity: EN55024

Warranty: one year



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Dialling

When using the key pad, users can dial a destination by phone number, SIP address, or IP address. Letters and special characters on the key pad operate similarly to that of the mobile phone. A SIP address can be abbreviated, for example to "sales." The phone supports hot key dialling so that users can enter a number, IP address, or name prior to seizing a call appearance or picking up the handset. This allows users to review and edit the destination address prior to calling.

The ZIP 2x1 provides a phone book for storing the contact information of 100 individuals. The phone remembers the last 32 numbers dialled and the last 32 incoming numbers. This list is quickly accessed from the redial button on the phone.

Encryption

The phone can encrypt the voice stream to another ZIP 2x1 or other equipment that supports AES encryption. Users can activate this function before or during a call. Alternatively, the administrator can enforce encryption so that it is not possible to establish a call without encryption. A conference call can be entirely encrypted when all parties use phones that are capable of encryption. The encryption code is displayed so parties at both ends can ensure that the call has not been intercepted.

Conference

The ZIP 2x1 supports three way conferencing. The conference is easily set up with inbound or outbound calls. Individual members can join or leave the conference at any time. The LEDs on the call appearance buttons show a different color to indicate they are involved in a conference.

VLAN and QoS Support

At the Ethernet layer VLANs and QoS are supported. At the IP layer differentiated services is supported. Together these ensure compatibility with most networks and ensure good quality speech.

LCD

The LCD on the phone has a high contrast that the user can adjust. Additionally, a backlight automatically turns on when there is activity on the phone. For conference calls, the phone displays the name of each person on the call and their associated call appearance. The LCD also indicates when a call is encrypted to assure users that their call is secure.

Preferences and Settings

All phone settings are accessible either from the phone or from a browser page located at the IP address assigned to the phone. There are many parameters on the phone that allow it to operate in the network. The phone automatically downloads these parameters at power on from a configuration file that is generated by the system administrator. These settings are protected by a password. With the menu on the phone, the user can customize personal preferences like volume level, contrast, language, format, and regional options without the password.

Date and Time

The phone uses SNTP to automatically obtain the date and time from the network. However, the date and time can be set manually in the absence of an SNTP server. The phone displays the date and time, the start time, and the duration of each call on the LCD.

International Support

Users can select between the following languages for the menu of the phone: English, French, German, Italian, Polish, Portuguese, Russian, Spanish, and Swedish. The user's guide included with each phone is printed in these languages, and in addition Arabic, simplified Chinese, traditional Chinese, Japanese, and Korean. Each phone is shipped with a set of stickers that can be placed on the phone to replace the English text describing the functions of the buttons and keys. These stickers are in each of the 14 languages and also with international symbols.

The user can select the date and time format and also the call progress tones for any one of 70 countries. The ac adapter that is shipped with the phone is appropriate for the destination country. The phone and adapter are fully certified to be sold in that country.

Sold and serviced by:

