

# IP telephone



## Main characteristics

- Two SIP lines
- 128x64 pixels and 59x22 mm display
- Opus codec support
- PoE support (Power over Ethernet)
- Support 1000 contacts in the phonebook
- Allows date and time synchronization using SNTP

## Applications

- Companies and industries
- Houses and condominiums
- Call Centers

## Overview

Designed to replace traditional desktop terminals, the Khomp K1 family IP phone features excellent HD voice quality and a clean, technological design.

It works together with communication platforms and allows a series of facilities for the user's day to day life. It has unique voice processing technology, allowing clear voice calls and fluid communication. Presents a contact list with support for a commercial and private phonebook, making it easy to search for contact numbers. It supports transfer, conference up to 3 participants, speed dial, voice messages, do not disturb, and many other functions.

The IP phones make calls from the Internet networks, receiving voice and data, and promoting integration between the two networks. This structure gives the K1 line a series of advantages over the common system, including the reduction of telephony expenses.

## Models

- **K1 - N**
- **K1 - PN** (with PoE support)

# Technical specifications

## Front Display

- 128x64 pixel graphic display
- Screen size: 5.9x2,2 cm
- Supports multiple languages

## Web Interface Languages

- Portuguese, Spanish and English

## Line

- 2 SIP lines with status indicator

## Functional keypad

- 4 programmable keys (via software)
- 5 navigation keys (directional buttons, C button)
- Volume adjustment, hands-free, mute, headset, message box, hold, redial, conference and transfer

## Voice

- HD Voice: HD Codec/Handset/Speaker (Full-duplex)
- Supports headset RJ9 (4P4C)
- Handset and hands-free operation possible
- 9-level volume adjustment

## Protocols

- SIPv1 (RFC 2543) and SIPv2 (RFC 3261) protocols
- Network Protocol: HTTP, BOOTP, FTP, TFTP, IEEE 802.1Q/P, IEEE 802.1x
- 802.3at protocol (PoE)
- Support IPv4 and IPv6
- Security: HTTPS, TLS and SRTP

## Service Quality

- TOS, AEC, PLC, AJB, Jiffer Buffer, VAD, CNG, G.168 (32ms)
- In-band and out-of-band DTMF

## Voice Decodification

- Codecs: G.723.1, G.729 A/B, G.711 A/U, G.722, iLBC, G.726-32, Opus

## Network

- IP Assignment: Static IP, DHCP, PPPoE
- DNS Client, VPN (L2TP), VLAN/QoS

## Applications

- Public, private and XML telephone directory for up to 1000 users

## Assembly

- For surface mounting
- It does not have a wall mounting bracket

## Call Handling

- Forward always, busy forwarding, unanswered forwarding
- Direct line (immediate/delay)
- Call waiting, call queuing, line switching
- Call forward, call transfer, call hold, call attention, call back
- One-key dialing, redialing (RD)
- Speed dial directly from the phone, direct dial from the call log
- 3-way conference, SIP MESSAGE (Instant Message)
- DnD, blacklist
- Voice mail, voice prompt, voice message

## Security

- Password registration to access the settings
- Signage and Media Coding

## Management

- Update: HTTP/TFTP/FTP Self-provisioning/TR069
- Settings: Phone/Web/ Auto provision/TR069
- Debugging: Phone/Web

## Phonebook

- Supports the registration of up to 1000 contacts

## Physical/Environmental

- Power Adapter:
  - Input: 100–240 VAC
  - Output: 5 VCC, 1 A
- 2 x RJ45 Fast Ethernet 10/100 Mbps (LAN/PC)
- 2 x RJ9 (handset/headset)
- PoE (Only in K1 - PN): IEEE 802.3af (class 0)
  - Average consumption: 1.5 W
- Storage temperature: 0 °C to 60 °C
- Operating humidity: 10% to 95%
- Size: 213x157x39 mm
- Approximate weight: 630 g

## Warranties and certifications

- Complete warranty (legal + Khomp warranty): 1 year
  - Legal warranty: 90 days
  - Khomp warranty: 9 months
- Industry certification ISO 9001
- Anatel certification



### Note

TR-069 is enabled in the following kernels:

- K1: Compatible with Kernel versions 1.0.0 and 3.0.0.

## Appearance and functionality



### Legend:

- 1. Display screen.
- 2. Line keys.
- 3. Programmable function keys.
- 4. Navigation keys, Headset, and Volume adjustment.
- 5. Mute key / C key.
- 6. REDIAL
- 7. Speakerphone.
- 8. Microphone
- 9. Dial pad.
- 10. Speaker.

## Other product images

