

# Essence IP Phone 7012/7012P<sup>1</sup> Product Specification

## V 1.0

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## Hardware

Dimension: approximately  
18 x 20 x 8 cm

- Weight: approximately 220g
- Operating temperature: 0-50°C
- Adapter:
  - Input: 100-240V, 50-60Hz
  - Output: 6V, 1A

Power over Ethernet on WAN  
port(7012P only)

- Output: Typical 5V, 1.2A
- FCC Class B
- CE, 89/336/EEC
- LVD: 73/23/EEC
- RoHS compliant

## Network Interface

- Two RJ45 10/100 Base-T Ethernet ports

## Display

16 characters x 2 lines

- Backlit, grayscale

## SIP

- SIP v2 (RFC 3261)
- RFC 3515/3892 REFER method
- RFC3581 RPORT parameter
- Many other SIP protocols
- Support 3 SIP accounts
- SIP server redundancy

## Call Features

- Call Hold
- Call Waiting
- Call Forward
  - Unconditional forward
  - Busy forward
  - Unavailable forward
- Call Transfer
  - Blind transfer
  - Attended transfer(Ring and Consult transfer)

- 3-way Conference
- Call Park/Call Pickup<sup>2</sup>
- On-demand Call Recording<sup>2</sup>
- Hotline

## Phone Functions

- Feature keys
  - Phone Book
  - Redial
  - Do not disturb (DND)
  - Hold
  - Transfer
  - Conference
  - Forward
  - Voice Message
  - Speaker phone
  - Volume Adjustment
  - Call Recording
  - Mute<sup>3</sup>
- Phone Book (140sets)
- Speed Dials (8 sets)<sup>4</sup>
- Call History (64 sets)
- Caller ID Display
- Speaker Phone
- Multi-user(Up to 3)
- Mimic second dial tone
- Incoming call indicator
- MWI/VMWI
- Provide 4 different ringtones
  - Selectable ringtones
  - Caller ID ringtones<sup>3</sup>
- Programmable tone
- Volume/Input gain adjustment
- Dial plan setting
  - Dial without waiting

## DTMF

- In-band DTMF
- RFC2833( Out-of-band DTMF)
- SIP INFO

## Codecs

- G.711  $\mu$ -law/A-law
- G.723.1 6.3k/5.3k bps
- G.726 16k/24k/32k/40k bps
- G.729A

- G.729A/B
- GSM

## Administration

- Web-based configuration
- Direct keypad configuration
- Auto Provisioning on boot<sup>2</sup>
- Automatic firmware upgrade<sup>2</sup>
- Firmware upgrade via web
- Diagnostics (Syslog support)

## Voice Quality

- G.168 LEC (Line Echo Canceller)
- AEC (Acoustic Echo Canceller)
- VAD (Voice Activity Detection)
- CNG (Comfort Noise Generator)
- Packet loss compensation
- Adaptive jitter buffer

## Networking

- IP assignments:
  - Static IP
  - DHCP
  - PPPoE
- STUN for NAT traversal
- MAC clone
- SNTP client
- Bridge/NAT mode on LAN
- DHCP server on NAT mode for LAN
- DDNS
- Virtual Server

## Security

- HTTP 1.1 basic/digest authentication for web setup
- MD5 for SIP authentication (RFC 2069/RFC 2617)

## QoS

- IEEE 802.1Q VLAN
- ToS field

1. EIP7012P is the EIP7012 model with additional support of power over Ethernet (802.3af) on WAN port.
2. Features marked with \*\* need to work with Essence IPBX solution.
3. Features that are only available in EIP1.0D or later.
4. Any version before EIP1.0D, M9 is one of Speed dial memory keys, and the Speed Dials are 9 sets.

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