

# IP Phone MP100 Reference Design

## High Quality Business Desktop IP Phone



The IP Phone MP100 is a middle end business phone with high quality voice effective.



The housing is provided by Zhongxun

### Glance

- Juphoon uContact MP100 desktop IP phone is next generation network phone based on SIP protocol. The device can interoperate with the SIP based IP-PBX, soft-switch or IMS core network. MP100 is designed for business environment and it supports most of the call control features like call hold, transfer and 3-way Talk and support multi-language

### Main Characteristics

Using high performance Juphoon SIP stack and flexible IMS client platform, the MP100 ensures protocol processing ability and application expansibility. The high resolution LCD and single chip BF531 hardware can meet the requirement of lower cost for a middle end business phone. The best full duplex allows you simultaneous natural conversation. You can do better supported by the presence and instant message. Just try it and you will find that the carefully designed one-press function buttons and brief LCD displayer are very easy to use.



### Advantages

#### High Stable & Efficient

Juphoon<sup>®</sup> SIP Stack and IMS Client Platform have been designed by industry criterion. Its high efficient performance leads to low CPU & memory resource consumption and fast operation response. And the platform expansibility ensures you to add more innovative applications.

#### High Performance

400MHz Analog Devices Blackfin<sup>®</sup> BF531 processor enables the IP phone solution to support various applications with low power consumption.

#### High Quality

Voice engine processes Net Package Jitter Buffer, AEC and many voice codecs and supports high quality full-duplex hands-free calls.

## Call Control

- Basic Call (Voice)
- Caller ID Display
- Redial , Speed Dial, Hotline
- Call From History & Address Book
- Call Hold & Consultation Hold
- Call Transfer (Blind & Attend)
- Call Waiting
- Call Forward (On Busy / No Answer, Unconditional, Offline)
- 3-Way Talk
- Automatic Accept Call / Do Not Disturb

## Other Functions

- Mute, Volume Adjust & Ring Tone Profile Management
- Presence
- Instant Message
- DTMF (Inbound / Outbound / SIP-Info)
- MWI for Voice Mail
- Call History (Missed, Received & Dialed)
- Phone Book (LCD Menu & Web)
- Voice Recording & Voice Mail
- Session Timer
- Dial Plan & Speed Key
- Multi-Account Management
- Alarm(Once & Repeat)
- SIP Stack and Call Control Logging
- Syslog , Telnet, Ping & Trace route Function
- 4 Softkeys

## Voice Engine

- Full Duplex Hands-free Talking with Acoustic Echo Cancellation(AEC), Voice Activation Detection(VAD) & Comfort Noise Generation(CNG)
- Volume Adjustment for Ringing, Speaker & Handset Individually
- Hands-free and Headset Mode
- Support for G.711 u/a, G.729ab & iLBC Codec
- Adaptive Jitter Buffers and Packet Loss Concealment
- Voice Activity Detection and Comfort Noise
- 3 Way Talk Mixing

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## Physical Specifications

- H x L x W:108 mm x 210 mm x 185 mm
- Power Adapter: AC Input 100~240V, 50-60Hz, DC Output 5V, 1.2A
- Network Interface: IEEE 802.3 10/100 Base-T
- Power Consumption: 1.8W ~ 2.1W

## Interface

- Speed Dial Keys
- High resolution 64\*128 dot LCD
- Handset and Hands-free Speaker
- Two 10/100 Base-T Ethernet Ports with Bridge / Router Function
- Web Management
- Load Profile and Menu from XML

## Protocol Features

- SIP RFC3261 and most RFC Extensions
- DNS (A, SRV, NAPTR)
- STUN
- SNMP v2 or TR069

## Network

- Manual Configuration / DHCP / PPPoE
- Time and Date Synchronization Using NTP / Register
- XML-Based Auto-Provision and Auto-Update
- Support for IEEE802.1p/Q tagging (VLAN)
- Work on Router / Bridge Mode
- NAT Keep Alive
- 3 layers DSCP

## Interoperability Testing

- ZTE Soft-switch and IMS Server
- Ericsson IMS Server
- Nokia IMS Server
- Asterisk SIP Server
- SER SIP Server
- More than 30 Servers and Terminals...

