

Specification of IP542 N

V1.2

Revision Record

Version	Date	Author	Contents
V1.0	2011-4-1	Anne	
V1.1	2011-4-2	Anne	
V1.2	2011-4-2	Anne	

4 lines IP SIP Phone with wireless and PoE (IP542 N/IP542NP)

The Intelligent Communication Device for Next Generation Network

Specification

VoIP SoC	<ul style="list-style-type: none"> ■ CPU Core: MIPS24KEc@360MHZ
Flash	<ul style="list-style-type: none"> ■ 8MBytes Flash
RAM	<ul style="list-style-type: none"> ■ 32MBytes SDRAM
Display	<ul style="list-style-type: none"> ■ 128×64 Graphic LCD with white back light
Phone Keys	<ul style="list-style-type: none"> ■ 4 soft keys ■ 4 Line keys with red-green dual color LEDs for indication ■ MENU, SMS, HOLD ■ Volume+, Volume- and navigate key MUTE ■ Headphone, Handsfree ■ 12 Dialing Buttons (0~9, *, #),
Power Supply	<ul style="list-style-type: none"> ■ AC/DC Adapter ◇ AC Input: 100~240V, 50~60Hz ◇ DC Output: 5V, 1A ■ IEEE802.3af PoE in WAN port (IP542P only)
I/O Interfaces	<ul style="list-style-type: none"> ■ 2 RJ-45 ports (Ethernet 10/100 Base-T) ■ 3.5mm earphone jack ■ 3dB internal antenna for 802.11n 1T1R ■ Full duplex hands-free speakerphone
Environmental	<ul style="list-style-type: none"> ■ Operation Temperature: 0~50 Degree C ■ Storage Temperature: -25~ 85 Degree C ■ Relative Humidity: 10%~90% No Condensing ■ Shock: Up to 75cm (30 inches) Drop upon Package
Audio Codec	<ul style="list-style-type: none"> ■ G.711 (A-Law, μ-Law) with PAMS above 4.3 ■ G.723.1 ■ G.729A/AB with PAMS above 4.0 ■ Adaptive Jitter Buffer Management ■ Voice Activity Detection ■ Comfort Noise Generation ■ Echo Cancellation
Protocols	<ul style="list-style-type: none"> ■ SIP V2 (RFC 3261,3262,3263,3264) ■ Backward Compatible with RFC2543 ■ Session Timer (RFC4028) ■ SDP (RFC2327) ■ RTP/RTCP (RFC1889 and RFC1890) ■ NAPTR for SIP URI Lookup (RFC2915) ■ STUN (RFC 3489) ■ ARP/RARP (RFC 826/903) ■ SNTP (RFC 2030) ■ DHCP server and client ■ HTTP Server for Web Management ■ TFTP/HTTP/HTTPS for Auto Provisioning ■ Message Waiting Indicator (RFC3842) ■ DHCP Option Codes for SIP (RFC3361) ■ DNS/DNS SRV (RFC1706 and RFC 2782) ■ IEEE802.1Q VLAN/802.1p and IP TOS
Applications	<ul style="list-style-type: none"> ■ SMS Function ■ MAC Address Cloning ■ SIP proxy redundancy: dynamic via DNS SRV, A records ■ Direct IP to IP calling ■ Alarm Clock ■ Day Light Saving ■ NAT Traversal: Traversal by STUN ■ Built-in NAT Router ■ VPN ■ QoS with Layer 2 and Layer 3 ■ DHCP Server and Client ■ IP conflict detection ■ Support PoE comply with IEEE802.3af(optional)



Management	<ul style="list-style-type: none"> ■ Firmware Upgradeable ■ Web Management Interface ■ Password Management ■ Local and Remote Syslog (RFC3164) ■ Auto Provisioning: TFTP, HTTP and HTTPS ■ SNTP Time Synchronization ■ Multi User Level ■ SNMPv2 ■ TR069
Call Features	<ul style="list-style-type: none"> ■ 4 lines ■ Auto Answer ■ 3-way Conference ■ Music on hold ■ Call Hold ■ Call Forwarding ■ Call Mute ■ Call Transfer ■ Call Waiting ■ Call Pickup ■ MWI ■ CID and CWCID ■ DTMF Relay: In-band, Out-band(RFC2833) and SIP Info ■ Full-duplex Speakerphone ■ Delayed Hotline ■ Redial ■ Dial Plan ■ Volume Adjustment - Handset/Headset, Speaker and Ringer
Phone feature	<ul style="list-style-type: none"> ■ Customized Ring Tone ■ SMS (100 records) ■ Call History (100 records) <ul style="list-style-type: none"> - Most Recently Missed Calls - Most Recently Received Calls - Most Recently Dialed Numbers ■ Phone book (500 records)
Dimension	<ul style="list-style-type: none"> ■ (L) 220 x (W) 187 x (H) 97 mm ■ 602 g (without package)