



TRIPLE
PLAY

IP Phones

Signamax, delivers stable, low-cost and fully featured IP telephones to customers.

065-9013 Signamax VoIP SIP Phone conforms to SIP standard and support ADSL, Cable Modem, LAN and WAN, ideal for both enterprise and home users.

065-9011 is a full-featured IP-based telephone set for home telephony via Ethernet base communication. It supports SIP RFC3261 protocol.

Two 10/100BaseT embedded switch/hub RJ-45 ports allow connect to office LAN and PC on your table. It is easily interface with ADSL/Cable Modem that is provided by ITSP, ISP or Carrier company to provide VoIP services to residential and SOHO application.



Model 065-9013

FUNCTIONS

- Message Waiting Indicator
- Do Not Disturb
- Configurable Ring Tones
- Adjustable Ring Volume
- Full Duplex Speakerphone
- Mute
- Shared Lines
- Multiple Lines
- Multiple Proxies
- Music on Hold
- Backup Setting
- GMT Setting
- Date and Time display (Manual / SNTP)
- Optional: Digital answering machine
- Status Indication: Talk & Idle & Hold & Unregistered
- 200 Names and Numbers Phonebook: 2 Numbers per Contact
- Calling Number with Phonebook Name Matching
- Call Log: Outgoing, Answered and Missed Calls (Each 20 Entries)
- Call Timer
- Speed Dial: 10 Numbers Max
- Redial
- Incoming Call with Number and Name Displaying
- Call Transfer: Attended & Blind
- Call Forwarding: Unconditional & No Answer & on Busy

IP Phones

PART NO.	DESCRIPTION
065-9005	Signamax SIP WiFi Phone 802.11b
065-9011	Signamax VoIP SIP Phone
065-9013	Signamax VoIP SIP Phone Advanced
065-9014	Signamax VoIP SIP Phone with PoE

NETWORK CONNECTIVITY SYSTEMS

www.signamax.eu

SPECIFICATIONS

065-9005

PERFORMANCE CHARACTERISTICS

Call Control Protocol: SIP (RFC2543/RFC3261)
Codec: G.711 / G.729a
Battery: 3.6 V, 1,350 mAh Lithium
Battery Life: 3.2 hr talk time, 24 – 26 hours standby
Wireless Access Protocol: CSMA/CA
Frequency Range: 2.4 – 2.497 GHz
Number of Channel: Up to 14 channels
Data Rate: 802.11b Direct Sequence Rate
 Scaling at 1, 2, 5.5, and 11 Mbps
Range RF output: 30 mW peak
Outdoor: 1,000 +ft./300 +m
Indoor: Up to 295 ft./75,5 m

PHYSICAL CHARACTERISTICS

Display LCD: 112 x 64 graphic mode, w/backlight
Notification: Ringer/vibration
Port: Ear-phone jack, mini-USB port

NETWORK CHARACTERISTICS

Protocol: TCP/IP; DHCP; IEEE 802.11b protocol
Security: Wired Equivalent Privacy (WEP) 64 and 128 bit
Accessories: AC adapter with mini-USB cable
Regulatory: EMI/RFI: FCC Class B, CE



Model 065-9005

065-9011

APPLICABLE STANDARDS

WAN interface: One RJ-45 10/100BaseT
LAN interface: One RJ-45 10/100BaseT
Power adapter: 5V DC
LCD Display: 13 characters, 2 lines
Keys: Function 4, Memory 5, Menu control 4
Hand free Speaker phone: with Echo cancellation
Network connect: Fix IP, DHCP, PPPoE
Link Mode (SIP): Proxi mode and Peer to peer mode
Link Mode (H323): Peer to peer, Gatekeeper mode, DDNS mode
Protocol: SIP (RFC3216)
Audio Codec support: G.711U, G.711A, G.723.1, G.729, G.729A

QoS support: WLAN (802.1p/q)

Telephony features: Mute, forward, Hold, Redial, Transfer
Configure management: LCD Front panel Web Browser, Telnet, Welltech's EMS
DTMF (SIP): In-band, RFC 2833 out-band DTMF generation/detection

ENVIRONMENT

Operating Temp: 0° – 40°C
Storage Temp: -10° – 60°C
Humidity: 10-90% non-condensing, operating and non-operating/storage
Dimensions (WxHxD): 200 x 79 x 210 mm
Weight: 830 g

CERTIFICATIONS

FCC Part 15 Class B, CE Class B



Model 065-9011

065-9013

PROTOCOLS

SIP: RFC3261; DTMF: inband, RFC2833, SIP Info;
 RTP: RFC1889; RTCP: RFC3605, RFC3611;
 DNS: RFC1035; FTP: RFC959;
 TFTP: RFC1350; HTTP: RFC1945, RFC2616;
 SNMP: RFC1361, RFC2030; SNMP: RFC1157;
 DHCP: RFC2131, RFC2132; PPPoE: RFC2516; NAT: RFC1631, RFC2663

VOICE QUALITY

VAD – Voice Activity Detection;
 CNG – Comfort-Noise Generation;
 AEC – Acoustic Echo Cancellation;
 QoS – Quality of Service;
 Jitter Buffer (optional or dependent on IP telephone system);
 Codec Support – G.711, G.723.1, G.729, G.722.

SECURITY

Encrypted (AES/DES) Voice Communication
 Password Protected for Configuration
 MD5 for SIP Authentication

MAINTENANCE

Web Browser Administration via Built-in Web Server,
 Auto-Upgradable via HTTP/FTP

ENVIRONMENT

Operating Temperature: 0° – 50°C
Storage Temperature: -10° – 60°C
Relative Humidity: 10-90% (Non-condensing)

BOX CONTENTS

Signamax VoIP Phone, Power adaptor,
 User's Manual, Quick Installation Guide,
 Optional accessories: RJ-45 Ethernet Cable, Headset, CD

065-9014

PROTOCOLS

SIP v1 (RFC 2543), SIP v2 (RFC 3261), SIP RPORT(RFC 3581),
 IP/TCP/UDP/RTP/RTCP, ICMP/ARP/RARP/SNTP,
 FTP/DNS/TFTP/DHCP, PPPoE client, HTTP/NAT/DHCP server

VOICE QUALITY

VAD(Voice Activity Detection), CNG(Comfort Noise Generator)
 AEC(Acoustic Echo Cancellation) G.168
 Packet Loss Compensation, Adaptive Jitter Buffer

CODEC

G.711 64kbit/s (ulaw/alaw), G.723.1 6.3k/5.3k bit/s
 G.726 16k/24k/32k/40k bit/s (ADPCM)
 G.729A 8k bit/s (CS-ACELP), G.729B (VAD/CNG)

APPLICABLE STANDARDS

Network Interface: RJ45*2 10/100BaseT
NAT Traversal: STUN
Display: 16 characters* 2 lines Backlit, grayscale
Keypad: 40 Keys totally, 9 Soft keys,
 10 Feature keys (Phone Book, Redial, DND, Hold, Transfer,
 Conference, Forward, Voice Message, Intercom, Volume Adjustment)
Tone: Ring Tone, Ring Back Tone, Dial Tone, Busy Tone, Programmable Tone

ADMINISTRATION

Web-Based Configuration
 Telnet Configuration
 Keypad Configuration
 Auto Provisioning on boot

DTMF

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

ENVIRONMENT

Operating Temperature: 0° – 50°C
Storage Temperature: -10° – 60°C
Relative Humidity: 10-90% (Non-condensing)

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