MOCET
SOHO IP Phones

IP3022 / IP3021A

Features

- 128 x 64 pixels LCD display with backlit
- HD audio chambers in handset and speaker
- 3 SIP lines with 6 calls appearances
- 8 programmable keys
- Two tilt angles for stand
- Built-in 2 Fast Ethernet & headset port
- Support of VLAN, IPsec VPN, and IPv6
- Complete SIP2.0 VoIP + networking protocols
- Optional external dial module (IP-EDMX)
- Optional EHS port for wireless BT headset
- Elegant innovative design with the latest technologies
- Asterisk, Broadsoft Metaswitch and Freeswitch, interoperability
- Support different models for selection

The MOCET IP3022/21A series is easy-to-use high quality desk phone with versatile advanced features including secure calling with trusted layer security (TLS), secure real-time transfer protocol (SRTP), IP security (IPsec) virtual private network (VPN) client, and instant messaging. Based on IP3000 family technologies and design, the IP3022/21A series support up to three simultaneous lines and can be positioned in two tilt angles and has a wall mount option as well as support power choice of Ethernet PoE(*) and power adaptor. The IP3022/21A series can be configured through the backlight LCD or access to its web interface. The IP3022/21A series can be automatically provisioned from a local or Internet based server using the built-in MOCET auto-provisioning and management protocols.

The IP3022/21A series supports many advanced features including 3-way on-phone conferencing, can transfer and receive calls using industry-standard SIP protocols, and can provide built-in music-on-hold (MoH) over IP network. The phone family is also interoperable with a wide range of SIP services and servers including those based on Metaswitch™, Broadsoft™, Freeswitch™, 3CX™ and Asterisk™. Therefore, the IP3022 /21A series can be deployed and used anywhere there is a suitable local area network (LAN) with Internet access and a local or remotely hosted SIP server.

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Display
- Graphic LCD display (128x 64 pixels) with green backlit
- Brightness and contrast adjustable
- Line status indication icon
- Date and time indication
- English and multiple(*) language support

LED
- 1 message waiting indication LED
- 3 line status LEDs with line keys
- 8 LEDs for programmable keys (IP3022 only)
- 1 LED for speakerphone

Keypad
- 4 soft and 3 line keys with LED
- 12 numeric keys and 5 navigation (Volume +/-) keys
- 8 programmable keys:
  dedicated for speed dial functions: for IP3021A
  or full programmable functions: for IP3022 only
- 11 functional keys for speaker, mute, headset, hold, transfer,
  conference, message, phonebook, and redial.

Configuration and Management
- Embedded Web (HTTP Server) for management
- Auto-provisioning, security, encryption support
- Remote and local configuration and upgrade through FTP, TFTP
  and HTTP server
- Engineering trace log
- Asterisk, Broadsoft, Freeswitch, Metaswitch,3CX and more SIP
  Server / IPPBX interoperability

Audio
- Codecs: G.711 (A-law/ u-law), G.722, G.726-32, G.729A/B,
  and iLBC support
- Individual volume settings with visual indication for handset,
  hand-free and ringer
- Voice activity detection (VAD)
- Comfort noise generation (CNG)
- Acoustic gain and echo cancellation (AGC, AEC)
- Adaptive jitter buffers and packet loss concealment (PLC)
- DTMF tone generation (RFC2833, in-band and SIP-INFO)
- Near full-duplex speakerphone

Network
- IETF SIP V2 (RFC3261)
- STUN NAT, DHCP, TFTP, Telnet, DNS, SNTP, HTTP, SNMPv2
- IPv4 and IPv6 protocol
- Security: IEEE 802.1x, HTTPs, TLS, SSL, SRTP, SIPS, VPN IPsec
- Instant messaging: SIMPLE, XMPP

Call Features
- 3 lines with up to 6 concurrent calls appearance
- 3-way conference capability
- Caller ID, call timer, CLIP/CLIR
- Call hold, call transfer(blind and attended), call forward, call waiting with
  indicator tones
- Music on hold
- Speed dial, redial
- Distinctive incoming call treatment
- Do not disturb (DND)
- Busy lamp field (BLF)

I/O Ports
- Two 10/100M Ethernet RJ-45 ports (LAN & PC)
- Auto sensing IEEE802.3af PoE, Class1 (IP3022 only)
- One RJ-9 port for handset
- One RJ-9 port for headset
- One DC jack port for power adapter
- One UART port for EHS / Service support

Power Adaptor
- PA-5V500ma : AC/DC power adapter 5V/500mA or
- PA-5V2A : AC/DC power adaptor 5V/2A

Physical Specification
- Weight of product: 850g
- Dimension: 230 x 190 x 40 mm
- Operating temperature : 0oC to 40oC (32oF to 104oF);
  Storage temperature: -20oC to 60oC (-4oF to 140oF)
- Operating relative humidity (non-condensing): 15% to 85%
- Warranty: 1 year

Conformance
- FCC Class B and CE Class B, LVD, RoHS

Optional Accessories for IP phone
IP-EDMX : External Dial Module (*need 5V/2A Power adapter)
IP-WMK22 : Wall Mount Kit for all models.
IP-EHS : External EHS box (for IP3022 and IP3022P)
PA-5V500ma or PA-5V/2A : AC/DC switching power adaptors

Available Models

Model	IP3022	IP3021A
PoE	Class1	No support
Power Adaptor	(option)	Yes, 5V/500mA
Programmable 8 keys	8 keys, LED (green / red), BLF, Speed dial, features On/off setting	8 keys for speed dial, No LED, No BLF, less Features
IP-WMK22	(Option)	(Option)
IP-EHS	(Option)	No support
PA 5V AC	(Option)	Yes
IP-EDMX * Need PA	(Option) 5V/2A PA	No support

[*] For details please contact us. And some functions / specification are limited in models or application.