

Prestige 2000W

VoIP Wi-Fi Phone



ZyXEL's P-2000W VoIP Wi-Fi phone, compatible with IEEE 802.11b wireless standard, is a perfect solution for Voice over IP applications. It allows users to make or receive phone calls as long as they are in the coverage of IEEE 802.11b or 11g wireless Access Points. By using the P-2000W, users no longer have to pay expensive communication fees and can enjoy the convenience of wireless mobility.

The brand new application is developed to support open standard SIP (Session Initiation Protocol), which interoperates with major SIP-based call servers, IP-PBXs and various VoIP client devices. It is not only an ideal alternative for ITSPs (IP Telephony Service Providers) to deploy their VoIP services; it can also be the wireless handset, which is applied in corporate IP-PBX centric VoIP environment.

ZyXEL's P-2000W is very easy to use and configure. It allows users to configure with LCD screen menu or web browser. Meanwhile, with the smart auto-provisioning mechanism, ITSPs can easily deploy and manage the VoIP services. Easy-to-use and convenient, the P-2000W delivers high quality voice functionality in a cost-effective way.

Benefits

Open Standard SIP v2 Support

The call control protocol of the P-2000W is based on SIP v2 (Session Initiation Protocol version 2, RFC 3261) open standard, which is interoperable with major SIP-based call servers, IP-PBXs, and other standard SIP-based client devices.

Mobility with IEEE 802.11b Wireless Standard Compliance

The P-2000W is compliant with the IEEE 802.11b standard and interoperates with any existing 802.11b or 802.11g wireless AP and gateway. It may be used as a cordless handset for residential users or for business users in an office environment. The small form factor of the handset is easy to transport and allows users to place VoIP phone calls in public 802.11-based hot spots.

High Voice Quality with Low Communication Costs

The P-2000W is capable of tagging features that support a service provider's QoS (Quality of Service) planning, such as ToS (Type of Service) and DiffServ. It allows gateways or central side equipment to identify and prioritize voice and data traffic. By supporting G.711 and G.729 voice compression technology, the P-2000W effectively reduces bandwidth consumption caused by voice traffic.

Enhanced Power Saving Design for Extended Standby and Talk Time

With an improved power-saving design, the P-2000W can be used for a relatively long period of standby and talk time. With an extended life for each recharge cycle, the P-2000W is available where and when you need it.

Direct IP-to-IP Call and Ad-hoc Intercom Mode Support (Optional)

By configuring a remote IP address in the built-in phone book, the P-2000W provides a direct IP-to-IP call feature when there is no intermediate SIP proxy server available in the network. The P-2000W can also establish an 802.11 ad-hoc network (computer-to-computer network without Access Point), which allows users to use the handsets as wireless intercoms.

Features

Wireless

- IEEE 802.11b support
- Frequency band: 2.400 ~ 2.497 GHz
- Channel: FCC Ch1 ~ 11, ETSI Ch1 ~ 13, Japan Ch1 ~ 14
- Data Rate: 11/5.5/2/1 Mbps
- Output Power: 14±1dBm
- Sensitivity: -82dBm@11Mbps
- Operating range: Out-door up to 300m, In-door up to 75m
- 64/128 bit WEP encryption
- Site Survey: Scan available APs in hand set's environment
- Support infrastructure (public) mode and Ad-hoc mode (option)

Voice

- SIP (RFC 3261) version 2
- SDP (RFC2327)
- RTP (RFC1889)
- RTCP (RFC1890)
- CODEC: G711, G.729a
(G.729 is recommended for better voice quality)

- DTMF detection and relay
- G.168 echo cancellation
- Silence Suppression
- Voice Activity Detection (VAD)
- Comfort Noise Generation (CNG)
- Support STUN (RFC3489)
- QoS support TOS/DiffServ
- Support outbound proxy for NAT Traversal
- Built-in Phone book
- Direct IP-to-IP call
- Standby time up to 24 hours, talking time up to 4 hours (Maximum)

Network

- IP address assignment: Fixed IP, DHCP client, PPPoE
- HTTP, TFTP, TCP, UDP, DNS, ARP, ICMP

Management

- LCD screen displayed menu and keypad settings
- Built-in Web Configurator
- Support auto-provisioning

Specifications

Hardware Specification

- Display: LCD 112x64 Graphic Mode, Backlight
- Notification: Ringer, Vibration
- Buttons: 0~9, *, #, 8 function keys
- One ear-phone jack

Physical Specification

- Dimensions: 48.2(L) x 20.3(D) x 139.7(H) mm
- Weight: 110g

Accessories

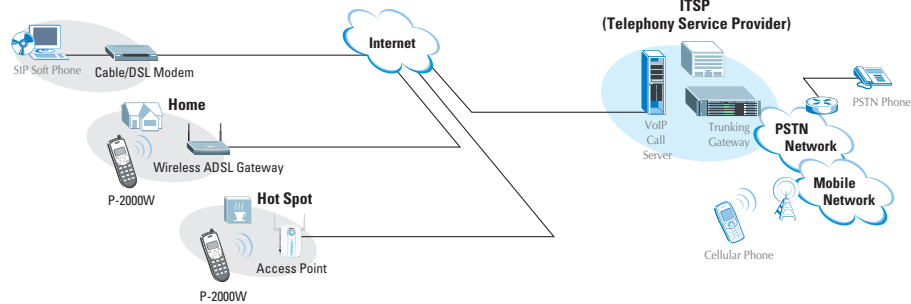
- Battery: 3.6V, 1350mAh Lithium
- Charger
- Power Adaptor: Input: AC 110 ~ 240V, 50 ~ 60Hz/Output DC 5V

Operating Environment

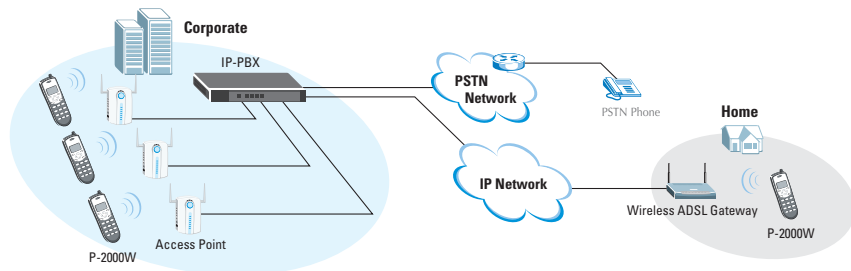
- Temperature: 0 ~ 40°C
- Humidity: 20 ~ 85% (non-condensing)

Application Diagram

IP Telephony Service Provider Application



IP-PBX based Corporate VoIP Application



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Unleash Networking Power

FC CE

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