

# ZyXEL



## Enjoy the Benefits of VoIP, Wirelessly



- **Mobility with IEEE 802.11b wireless standard compliance**
- **High voice quality with low communication cost**
- **Support Auto Provisioning for ease of deployment**

### Benefits

#### Mobility and Availability

The call control protocol of the P-2000W\_v2 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. The P-2000W\_v2 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 environment.

#### High Voice Quality with Low Communication Costs

The P-2000W\_v2 is capable of tagging features that support a service provider's QoS (Quality of Service) planning, such as ToS (Type of Service). 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\_v2 effectively reduces bandwidth consumption caused by voice traffic.

#### Travel Charger Design for Mobile Users

The P-2000W\_v2's travel charger design makes it easier for users to carry and use the phone in different site. The mobile phone style design also let user to have similar and better experience to use VoIP service.

#### Direct IP-to-IP Call and Ad-hoc Intercom Mode Support

By configuring a remote IP address in the built-in phone book, the P-2000W\_v2 provides a direct IP-to-IP call feature when there is no intermediate SIP proxy server available in the network. The P-2000W\_v2 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.

VoIP Wi-Fi Phone

P-2000W\_V2



# VOIP



## Specifications

### Wireless

- IEEE 802.11b support
- Frequency band: 2.400 ~ 2.4835GHz
- Channel: FCC Ch1 ~ 11, ETSI Ch1 ~ 13, Japan Ch1 ~ 14
- Data rate: 11/5.5/2/1Mbps
- Output power: 17.06 dBm
- Sensitivity: -82 dBm@11Mbps
- Operating range: Out-door up to 300m, In-door up to 75m
- 64/128 bit WEP encryption
- Support site survey and wireless profile

### Voice

- Support open standard SIP v2 (RFC3261)
- SDP (RFC2327)
- RTP (RFC1889)
- RTCP (RFC1890)
- CODEC support: G711, G.729a
- G.168 echo cancellation
- Silence suppression
- Voice Activity Detection (VAD)
- Comfort Noise Generation (CNG)
- Message Waiting Indicator
- Built-in phone book
- QoS support TOS/DiffServ
- Standby time 13 ~ 24 hour (Depend on wireless environment)
- Talk time 3.2 ~ 4 hour

### NAT Traversal

- Outbound proxy
- STUN (RFC 3489)
- Manual configured WAN and SIP address

### 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 secured HTTP Auto-Provisioning

### Physical Specifications

- Dimensions: 127(W) x 45.7(D) x 20(H) mm
- Weight: 105g

### Hardware Specifications

- Notification: Ringer, Vibration
- Display: Mono-LCD, 112 x 64 dots
- Buttons: 0 ~ 9, \*, #, 11 functional keys
- Port: One ear-phone jack, one USB-type connector for charger
- Battery: 3.7V, 1350mAh

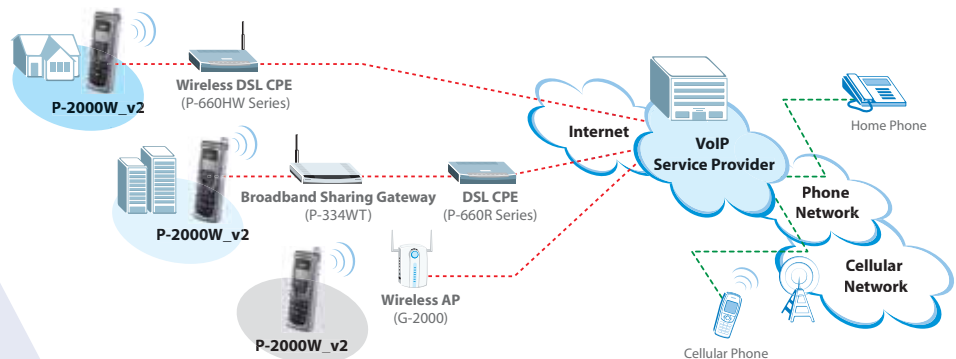
### Operation Environment

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

### System Requirement

- Available 802.11b or 802.11g access point
- High-speed Internet connectivity
- A CD-ROM drive
- Windows 98SE, ME, 2000, or XP

## Application Diagram



For more product information, visit us on the web [www.ZyXEL.com](http://www.ZyXEL.com)

**Corporate Headquarters**  
**ZyXEL Communications Corp.**  
 Tel: +886-3-578-3942  
 Fax: +886-3-578-2439  
 Email: [sales@zyxel.com.tw](mailto:sales@zyxel.com.tw)  
<http://www.zyxel.com>  
<http://www.zyxel.com.tw>

**ZyXEL Denmark A/S**  
 Tel: +45 39 55 07 00  
 Fax: +45 39 55 07 07  
 Email: [sales@zyxel.dk](mailto:sales@zyxel.dk)  
<http://www.zyxel.dk>

**ZyXEL France SARL**  
 Tel: +33 (0)4 72 52 97 97  
 Fax: +33 (0)4 72 52 19 20  
 Email: [info@zyxel.fr](mailto:info@zyxel.fr)  
<http://www.zyxel.fr>

**ZyXEL Hungary**  
 Tel: +36-1-336-1646  
 Fax: +36-1-325-9100  
 Email: [info@zyxel.hu](mailto:info@zyxel.hu)  
<http://www.zyxel.hu>

**ZyXEL North America**  
 Tel: +1-714-632-0882  
 Fax: +1-714-632-0858  
 Email: [sales@zyxel.com](mailto:sales@zyxel.com)  
<http://www.us.zyxel.com>

**ZyXEL Russia**  
 Tel: +7 (095) 542-8920  
 Fax: +7 (095) 542-8925  
 Email: [info@zyxel.ru](mailto:info@zyxel.ru)  
<http://www.zyxel.ru>

**ZyXEL Sweden A/S**  
 Tel: +46 (0) 31 744 77 00  
 Fax: +46 (0) 31 744 77 01  
 Email: [sales@zyxel.se](mailto:sales@zyxel.se)  
<http://www.zyxel.se>

**ZyXEL Ukraine**  
 Tel: +380 44 494 49 31  
 Fax: +380 44 494 49 32  
 Email: [sales@ua.zyxel.com](mailto:sales@ua.zyxel.com)  
<http://www.ua.zyxel.com>

**ZyXEL Czech s.r.o.**  
 Tel: +420 241 091 350  
 Fax: +420 241 091 359  
 Email: [info@cz.zyxel.com](mailto:info@cz.zyxel.com)  
<http://cz.zyxel.com>

**ZyXEL Finland Oy**  
 Tel: +358-9-4780 8400  
 Fax: +358-9-4780 8448  
 Email: [sales@zyxel.fi](mailto:sales@zyxel.fi)  
<http://www.zyxel.fi>

**ZyXEL Germany GmbH.**  
 Tel: +49 (0) 2405-6909 0  
 Fax: +49 (0) 2405-6909 99  
 Email: [sales@zyxel.de](mailto:sales@zyxel.de)  
<http://www.zyxel.de>

**ZyXEL Kazakhstan**  
 Tel: +7-327-2-590-699  
 Fax: +7-327-2-590-689  
 Email: [sales@zyxel.kz](mailto:sales@zyxel.kz)  
<http://www.zyxel.kz>

**ZyXEL Norway A/S**  
 Tel: +47 22 80 61 80  
 Fax: +47 22 80 61 81  
 Email: [sales@zyxel.no](mailto:sales@zyxel.no)  
<http://www.zyxel.no>

**ZyXEL Spain**  
 Tel: +34 902 195 420  
 Fax: +34 913 005 345  
 Email: [sales@zyxel.es](mailto:sales@zyxel.es)  
<http://www.zyxel.es>

**ZyXEL UK Ltd.**  
 Tel: +44 (0) 1344 303044  
 Fax: +44 (0) 1344 303034  
 Email: [sales@zyxel.co.uk](mailto:sales@zyxel.co.uk)  
<http://www.zyxel.co.uk>

