

# ZyAIR B-500

## 802.11b Wireless Access Point



Set your network free with an affordable price. The 802.11b-compatible ZyXEL's ZyAIR B-500 delivers a secure, reliable and easy-to-use wireless connection throughout your home or small office. By connecting the ZyAIR B-500 wireless Access Point to your wired network, you can enjoy surfing Internet anywhere in your house with no cabling hassle. Meanwhile, the robust security ensures your Internet connection is protected. The ZyAIR B-500 is the ideal solution for your wireless Internet experience.

### Benefits

#### Maximum Freedom of Mobility with Higher Speed

ZyXEL's wireless Access Point offers you the maximum mobility of roaming in your office or home. No matter where you are, you can easily and securely access Internet resources, emails; or share large files, MP3 and videos through wireless Access Points. What's more, you can even break the 11Mbps speed barrier of the 802.11b wireless standard to reach 27.5Mbps with proprietary ZyAIR client adapters.

#### High Link Sensitivity and Better Radio Coverage

You can extend your wireless reach by utilizing MDT (Multi-path Decoding Technology), which is capable of overcoming the physical limitations to the signal strength, thus achieve a better three-dimensional radio coverage with more persistent connections and less communication blind spots within range.

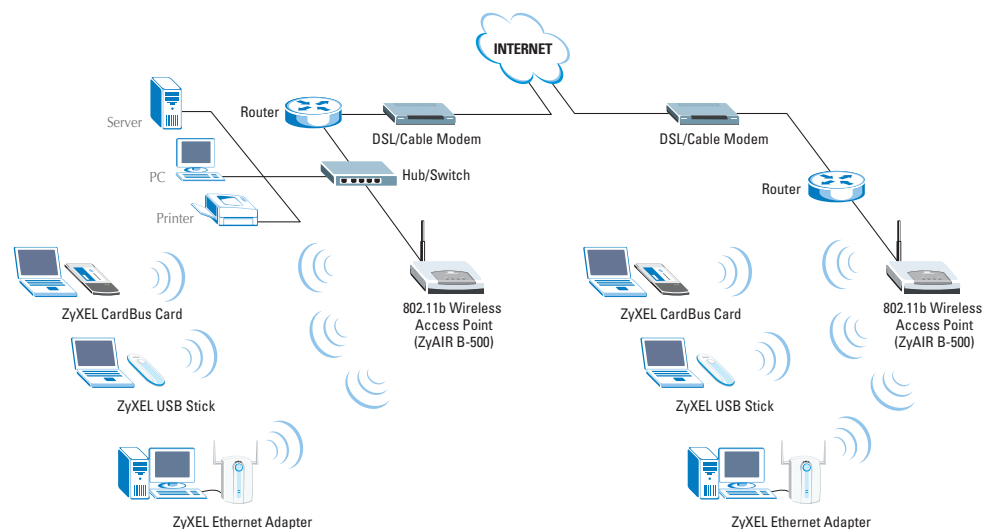
#### Enhanced Wireless Security

ZyXEL's wireless Access Point supports both basic 64/128-bit WEP encryption and up-to-date enhanced wireless security with 802.1x authentication and Wi-Fi Protected Access (WPA\*). Additional MAC address filtering shields wireless network from unauthorized users' entries and assures your wireless communication is protected.

#### Easy Installation and Use

A user-friendly web-based configurator helps you easily configure ZyXEL's wireless Access Point to build a wireless network effortlessly.

### Application Diagram



## Features

- IEEE 802.11b-compliant specification; also forward compatible with 802.11g
- Higher transmission speed up to 27.5Mbps (compatible with ZyAIR B-122/B-320)
- 64/128-bit WEP encryption; IEEE 802.1x security and WPA\* support
- Built-in local server to authenticate wireless users without interacting RADIUS server (32 users)
- MAC address filtering through WLAN (support 32 users)
- Supports DHCP client and relay to get/ pass IP address from/ to DHCP server via WAN port
- MDT technology to overcome the physical limitations to the signal strength
- FTP/TFTP firmware upgradeable and configuration can be backup and restored
- Supports SNMP v2c with MIB II
- User-friendly web-based configuration

\* for future release

## Specifications

### Technical Specifications

- Standard Compliance
  - IEEE 802.11
  - IEEE 802.11b
  - IEEE 802.3 and 802.3u
  - IEEE 802.1x
  - Wi-Fi certificate
- Data Rate
  - 16.5M/11Mbps/5.5Mbps/2Mbps/1Mbps (auto fallback)
- Frequency range
  - 2.4~2.4835GHz (Industrial Scientific Medical Band)
- Modulation Technique
  - Direct Sequence Spread Spectrum, BPSK, QPSK/CCK
- Output Power:17dBm (typical)
- Receive Sensitivity : -84dBm
- Coverage Area
  - Indoor:
    - 50M@16.5Mbps
    - 80M@5.5Mbps or lower

### Outdoor:

- 150M@16.5Mbps
- 300M@5.5Mbps or lower
- Bit Error Rate: 1E-5@-83dBm
- Channels
  - USA (1~11 Channel)
  - Europe (1~13 Channel)
  - Japan (1~14 Channel)

### Hardware Specifications

- Ethernet Interface
  - One 10/100 BASE-T RJ-45 Ethernet connector
- 1 external dipole antenna
- Reset Button
  - Restore to the factory default settings
- LEDs
  - PWR/SYS
  - Ethernet Link
  - WLAN
- Power Requirements
  - 9VAC@1Amp Max.

### Operating Environment

- Operating Temperature: 5 ~ 50°C
- Storage Temperature: -20 ~ 55°C
- Operating Humidity: 10 ~ 90% RH
- Storage Humidity: 5 ~ 95% RH

### Physical Specification

- Dimensions:
  - 120(L) x 105(D) x 35(H) mm
- Weight: 180g

### System Requirement

- Broadband (cable, DSL, satellite or wireless) Internet service and modem with Ethernet RJ-45 connector
- Ethernet connection (adapter or cable)
- Windows, Mac or Linux based operating system
- Internet Explorer 4.0 or later

## Connectors



**ZyXEL**  
Unleash Networking Power

FC CE

**Corporate Headquarters**  
ZyXEL Communications Corp.  
Tel: +886-3-578-3942  
Fax: +886-3-578-2439  
Email: sales@zyxel.com.tw  
http://www.zyxel.com

**North America**  
ZyXEL Communications Inc.  
Tel: +1-714-632-0882  
Fax: +1-714-632-0858  
Email: sales@zyxel.com  
http://www.us.zyxel.com

**Germany**  
ZyXEL Deutschland GmbH.  
Tel: +49 2405 6909 0  
Fax: +49 2405 6909 99  
Email: sales@zyxel.de  
http://www.zyxel.de

**Denmark**  
ZyXEL Communications A/S  
Tel: +45 39 55 07 00  
Fax: +45 39 55 07 07  
Email: sales@zyxel.dk  
http://www.zyxel.dk

**Norway**  
ZyXEL Communications A/S  
Tel: +47 22 80 61 80  
Fax: +47 22 80 61 81  
Email: sales@zyxel.no  
http://www.zyxel.no

**Sweden**  
ZyXEL Communications A/S  
Tel: +46 31 744 7700  
Fax: +46 31 744 7701  
Email: sales@zyxel.se  
http://www.zyxel.se

**Finland**  
ZyXEL Communications Oy  
Tel: +358-9-4780 8400  
Fax: +358-9-4780 8448  
Email: sales@zyxel.fi  
http://www.zyxel.fi