



## Enabling Wi-Fi Convergence for Enterprise Applications

### Benefits

#### High Density and Large-scale Deployments

ZyXEL NWA-3500 can be configured as an 802.11a or 802.11b/g access point with up to 15 non-overlapping channels (upon regulatory domain) for high density and large-scale deployments. With dual-band support and rogue AP detection that covers the whole spectrum, all traffics are under close watch anytime. The dual-band configurable NWA-3500 wireless access point provides more channels and more security.

#### Maximum Wireless Throughput

The dual-radio feature of NWA-3500 supports dual-band configuration, therefore it can be configured as a concurrent dual-band access point to provide maximum wireless throughput. It can also be configured as 11a for bridging, or 11g for extending the wireless coverage without compromising the throughput. The concurrent dual-band capability indeed provides unlimited flexibility for efficient Wi-Fi network planning.

#### Voice, Networking and Wireless Communications

As Voice over WiFi (VoWiFi) gains more ground in office environments today, ZyXEL's NWA-3500 is designed to combine voice, networking and wireless communications. It's Wi-Fi WMM-certified and has ZyXEL's unique auto traffic classifier (ATC) that automatically prioritize the traffics, especially for conventional applications. As for roaming capability, another VoWiFi essence, NWA-3500 supports pre-authentication and PMK cache, as well as IAPP enhancements to improve the hand-off timing. Deploy the VoWiFi-ready NWA-3500, and enjoy the convenience of low-cost conversation instantly.

#### Enterprise Class Security

ZyXEL delivers enterprise-class security features to small and medium businesses. To shield wireless communication at the source, WPA2 with TKIP/AES encryption provides the latest and toughest standard-based security while WEP encryption supports legacy wireless clients. Additionally, WPA2 ensures the compatibility with all Wi-Fi-certified wireless clients.

- 802.11 a/b/g Wireless Connectivity
- Dual Radio Support
- Wi-Fi Multimedia (WMM) + Auto Traffic Classifier
- Wi-Fi WPA2-Certified
- Multiple SSID with Predefined VoIP, Guest SSID
- Powerful and Secure Management



802.11a/g Dual Radio  
Wireless Business Access  
Point

NWA-3500

## Virtual AP for Specific Applications

The NWA-3500 supports up to eight SSIDs with 802.1Q VLAN tag that allows NWA-3500 to perform as multiple virtual access points. The NWA-3500 also provides pre-defined voice SSID and guest SSID for optimized voice prioritization, and offers top-level security for guest access without difficulties of complicated configuration efforts.

## Powerful Management with Scalability for Massive Deployment

This access point supports a wide variety of administration features with powerful and secure control over the system. The NWA-3500 also provides a breakthrough benefit by using a centralized account on RADIUS server to control all the NWA-3500 access points; this simplifies management efforts and improves network security. Moreover, users can perform massive installation and configuration upgrades with the auto-configuration function. Simply put, the NWA-3500 is the best choice for small to medium enterprises.

# Specifications

## System Specifications

### Standard Compliance

- Ethernet: IEEE 802.3 ~ IEEE 802.3u
- Wireless: IEEE 802.11 a/b/g

### Radio

- Modulation Type: OFDM/DSSS, PQSK, QPSK/CCK
- Frequency Band
  - USA: 2.412 ~ 2.462 GHz  
5.15 ~ 5.25 GHz  
5.725 ~ 5.825 GHz
  - ETSI: 2.412 ~ 2.472 GHz  
5.15 ~ 5.725 GHz (Country Specific)
  - Taiwan: 2.412 ~ 2.462 GHz  
5.25 ~ 5.35 GHz  
5.725 ~ 5.825 GHz

### Coverage Range

- 802.11g:
  - Indoor: up to 100 m

- Outdoor: up to 400 m
- 802.11a:
  - Indoor: up to 80 m
  - Outdoor: up to 200 m

### Performance

- Wired Data Rates: 10/100Mbps Auto-sensing (full-duplexing switch)
- Wireless Data Rates:
  - IEEE 802.11b (auto-fallback):  
CCK: 11, 5.5 Mbps  
DQPSK: 2 Mbps  
DBPSK: 1 Mbps
  - IEEE 802.11g (auto-fallback):  
OFDM: 54, 48, 36, 24, 18, 12, 9 and 6Mbps

### Security

- Wireless Access: 128-bit WEP data encryption  
802.1x authentication with MD5/TLS/TTLS/PEAP  
WPA/WPA2 support

## Hardware Specifications

- Ports: One Ethernet 10/100 Base-T full duplex RJ-45
- Reset button: Yes
- Power over Ethernet: Yes
- Power supply: 12V DC, 1.5A
- Antenna diversity: Yes
- Antenna Connector: Two RP-SMA

## Physical Specifications

- Dimension: 212.5 (W) x 138.5 (D) x 52 (H) mm
- Weight: 420g

## Environmental Specifications

- Operating Temperature: 0°C ~ 50°C
- Humidity: 20% ~ 95% (non-condensing)

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



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