



## Enabling Wi-Fi Convergence for Enterprise Applications

### Benefits

#### 15 Non-overlapping Channels and Complete Rogue AP Detection

ZyXEL NWA-3100 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-3100 wireless access point provides more channels and more security.

- 802.11a/b/g Wireless Connectivity
- 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 Wireless  
Business Access Point

NWA-3100

#### VoWiFi Ready

Voice over Wi-Fi (VoWiFi) is gaining more ground in office environments. The NWA-3100 is designed to combine voice, networking and wireless communications. It's Wi-Fi WMM-certified and has ZyXEL's unique ATC and auto traffic classifier that automatically prioritize the traffics, especially for conventional applications. As for roaming capability, another VoWiFi essence, the NWA-3100 support pre-authentication and PMK cache, as well as IAPP enhancements to improve the hand-off timing. Deploy the VoWiFi-ready NWA-3100 and enjoy the convenience of low-cost conversation.

#### 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.

#### Virtual AP for Specific Applications

The NWA-3100 supports up to eight SSIDs with 802.1Q VLAN tag that allows the NWA-3100 to perform as multiple virtual access points. The NWA-3100 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-3100 also provides a breakthrough benefit by using a centralized account on RADIUS server to control all the NWA-3100 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-3100 is the best choice for small to medium enterprises.

## Specifications

### System Specifications

#### Standard Compliance

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3af
- IEEE 802.11a/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
  - Taiwan: 2.412 ~ 2.462 GHz  
5.25 ~ 5.35 GHz  
5.725 ~ 5.825 GHz

#### Coverage Range

- 802.11b/g:
  - 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:
  - 802.11b:  
CCK: 11, 5.5 Mbps  
DQPSK: 2 Mbps  
DBPSK: 1 Mbps
  - 802.11a/g:  
OFDM: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps

### Hardware Specifications

- Ethernet Port: 10/100Base-T full duplex RJ-45 x 1
- Reset button: Yes
- Power over Ethernet: Yes
- Power supply: 12 V DC, 1.5A
- Antenna: 2 dBi dual band omni detachable antenna

### Firmware Specifications

#### Wireless

- Support up to 8 Multiple-SSIDs
- Roaming (IAPP) support based on IEEE 802.11f
- Operation mode including AP, Multiple ESSID, AP + Bridge (WDS), Bridge/Repeater mode (Auto Channel setting)
- Configurable output power
- Rogue AP detection for both 2.4 GHz and 5 GHz

#### Security

- MAC address filtering through WLAN
- Blocking Intra-BSS Traffic
- Layer 2 isolation
- Support Primary and Backup RADIUS server
- 64/128/152-bits WEP support
- WPA/WPA2 supported, WPA and WPA2 Mixed mode supported
- IEEE 802.1x security (EAP-TLS, EAP-TTLS, PEAP, SIM)
- Pre-defined optimized Guest SSID

#### QoS

- WMM certified
- WMM + Auto Traffic Classifier prioritize network traffic
- PMK-cache and Pre-Authentication supported for fast roaming
- Pre-defined optimized VoIP SSID

### Management

- SNMP v2c, MIB II supported
- DHCP client
- IPSec, PPTP and L2TP pass through support
- User friendly Web-based configuration
- Web/FTP/TFTP firmware upgrade and configuration backup and restore
- Command-line interface
- Centralized administrator\* account through Radius server
- SNMP trap
- Auto Configuration

### Physical Specifications

- Dimensions: 152 (W) x 92 (D) x 45 (H) mm
- Weight: 310 g

### Environmental Specifications

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

### System Requirements

- Internet Explorer 5.0 or above

*\* Firmware upgradeable for future enhancement*

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



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