



Extend the Secured WLAN Service to Outdoor Environments

- Configurable Dual-radio with a Variety External Antenna Solutions
- Featured with WDS Function for Bridging Separate LAN Areas Together
- IP-66 Compliant Casing and Able to Protect from UV Exposure
- Along with Packaged PSE for Easy Installation to Administrators
- WEP/WPA/WPA2 Supported to Ensure Complete Network Protection



802.11a/g Outdoor
Business WLAN
Access Point

NWA3550

Benefits

Extending Coverage to the Outdoor World

The ZyXEL NWA3550 is an ideal solution for business seeking to deploy WLAN services in a variety of outdoor environments for extended dual-band wireless signal coverage and increased aggregated bandwidth. The durable waterproof, dust-sealed and UV-resistant casing, as well as ZyXEL's full options of accessories including antennas, cables and surge resisters enable NWA3550 to offers network planners with a solid and efficient outdoor system.

Bridging Discrete Networks

In addition to wider bandwidths, the NWA3550 also provides practical applications to bridge separate networks. One of the two radio bands can be used as the connection backbone while the other serves WLAN clients at the same time. This is highly beneficial for businesses to connect different buildings quickly without expensive cable deployments.

Durable Casing for All Weathers

The exterior of the NWA3550 is designed to comply with the IP-66 standard, which guarantees protection against dusts and even powerful water jets. Furthermore, the device is equipped with a built-in heater monitored by the temperature sensor for NWA3550 to endure harsh outdoor environments.

Abundant Kits for Snap Installation

The NWA3550 has Power over Ethernet (PoE) support that allows administrators to install the device in areas where power outlets are not available. In order to fully supply the electrical power required and to relieve technicians from the hassle finding a suitable PSE, the shipment package includes a ZyXEL-certified PSE unit; and a well-designed mounting kit is also enclosed to facilitate both wall-mount and pole-mount installations.

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.

Specifications

System Specifications

Standard Compliance

- Ethernet
 - IEEE 802.3
 - IEEE 802.3u
- WLAN
 - IEEE 802.11a
 - IEEE 802.11b/g

Radio

- Output Power
 - 11b/g: 17 dBm
 - 11a: 14 dBm
- Modulation Type
 - 802.11b: DBQSK, DQPSK, CCK
 - 802.11g: BQSK, QPSK, 16-QAM, 64-QAM
 - 802.11a: BQSK, QPSK, 16-QAM, 64-QAM
- Frequency Band
 - 2.4 GHz Bands
 - USA: 2.412 to 2.462 GHz
 - ETSI: 2.412 to 2.472 GHz
 - Taiwan: 2.412 to 2.462 GHz
 - 5 GHz Bands
 - USA: 5.15 to 5.25, 5.725 to 5.825 GHz
 - ETSI: 5.15 to 5.725 GHz
 - Taiwan: 5.25 to 5.35, 5.725 to 5.825 GHz

Coverage Range

(Reference with antenna of 2 dBi)

- 11g
 - Indoor: up to 100 m
 - Outdoor: up to 400 m
- 11a
 - Indoor: 80 m
 - Outdoor: 200 m

Antenna

- 2 x N-type connector ports for external antennas

Performance

- Wired Data Rates: 10/100 Mbps Auto-sensing (full-duplex 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)
 - 64-QAM: 54/48 Mbps
 - 16-QAM: 36/24 Mbps
 - QPSK: 18/12 Mbps
 - BPSK: 9/6 Mbps
 - IEEE 802.11a (auto-fallback)
 - 64-QAM: 54/48 Mbps
 - 16-QAM: 36/24 Mbps
 - QPSK: 18/12 Mbps
 - BPSK: 9/6 Mbps

Security

- WLAN Access Control List
- WEP 64/128/152
- WPA-PSK, WPA2-PSK
- WPA-Enterprise, WPA2-Enterprise
- EAP-TLS, TTLS, PEAP, SIM

Hardware Specifications

Ports

- Ethernet: 10/100Base-T full duplex RJ-45 x 1
- Power over Ethernet: Yes (Must use the packaged PSE device)
- Antenna: N-type x 2
- Vent
- Ground

Physical Specifications

- Dimensions: 256 (W) x 246 (D) x 82 (H) mm
- Weight: 2,000 g

Environmental Specifications

Operating Environment

- Temperature: -40°C ~ 60°C
- Humidity: 10% ~ 90% (non-condensing)

Storage Environment

- Temperature: -40°C ~ 70°C
- Humidity: 5% ~ 95%

Certification

Radio

- FCC Part 15C 15.247
- FCC Part 15E 15.407
- ETSI EN 300 328 V1.7.1
- ETSI EN 301893 V1.2.4
- DGT LP0002
- Industry Canada RSS-210
- AS/NZS 4268

EMC

- FCC Part 15B
- EN 301 489-17 V1.2.1: 08-2002
- EN 301 489-1 V1.5.1: 11-2004
- EN 55022: 2006
- ICES-003
- AS/NZS CISPR22

Safety

- EN 60950-1

Package Contents

- RJ-45 Cable 1M
- Product CD
- QSG
- Mounting Kit
- PSE Device

Antenna Accessories

Product	EXT-108	EXT-109	EXT-114	EXT-118	ANT2206		ANT3108	ANT3218
Graphic								
Part Number (STD)	91-005-047001B	91-005-048001B	91-005-049001B	91-005-050001B	91-005-231001B		91-005-233001B	91-005-232001B
EAN Code	4718937500734	4718937401406	4718937500741	4718937401413	4718937508013		4718937508037	4718937508020
Frequency Band	2400 ~ 2500 MHz	2400 ~ 2500 MHz	2400 ~ 2500 MHz	2400 ~ 2500 MHz	2400 ~ 2500 MHz	4900 ~ 5875 MHz	5150 ~ 5875 MHz	4900 ~ 5875 MHz
Gain	8 dBi	9 dBi	14 dBi	18 dBi	6 dBi	8 dBi	8 dBi	18 dBi
VSWR	2.0:1 Max	1.5:1 Max	1.5:1 Max	1.5:1 Max	2.0:1 Max	2.0:1 Max	2.0:1 Max	2.0:1 Max
Polarization	Linear, vertical	Linear, vertical	Linear, vertical	Linear, vertical	Linear, vertical	Linear, vertical	Linear, vertical	Linear, vertical
HPBW/Horizontal	 360°	 65°	 30°	 15°	 65°	 50°	 360°	 18°
HPBW/Vertical	 15°	 60°	 30°	 5°	 75°	 50°	 20°	 18°
Front to Back Ratio		15 dB	15 dB	26 dB	12 dB			25 dB
Impedance	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω		50 Ω	50 Ω
Connector	N type female	N type female	N type female	N type female	RP SMA Plug		N type female	N type female
Survival Wind Speed	216 km/hr	216 km/hr	216 km/hr	180 km/hr			216 km/hr	216 km/hr
Temperature	-40°C to 80°C	-40°C to 80°C	-40°C to 80°C	-40°C to 80°C	-10°C to 55°C		-40°C to 80°C	-40°C to 80°C
Humidity	95% at 25°C	95% at 55°C	95% at 55°C	95% at 55°C	95% at 55°C		95% at 55°C	95% at 55°C
Radome Color	Gray-white	Gray-white	White	White	White, Black		White	Gray-white
Radome Material	Fiber glass	ABS	ABS, UV resistant	ABS, UV resistant	ABS, UV resist		ABS, UV resist	ABS, UV resist
Weight	337 gw	107 gw	407 g	1.6 kg	110 g		206 g	640 gw
Dimensions	f 19 x 250 mm	114 x 114 x 40 mm	200 x 200 x 50 mm	360 x 360 x 16 mm	76 x 86 x 118 mm		f 20 x 260 mm	210 x 210 x 73 mm

Cable Accessories

LMR-400

P/N	Length
91-005-075001G	LMR 400 N-PLUG to N-PLUG, for 6M
91-005-075002G	LMR 400 N-PLUG to N-PLUG, for 9M
91-005-075003G	LMR 400 N-PLUG to N-PLUG, for 12M
91-005-075004G	LMR 400 N-PLUG to N-PLUG, for 1M

LMR-200

P/N	Length
91-005-074001G	LMR 200 N-PLUG to RP-SMA PLUG, for 3M
91-005-074002G	LMR 200 N-PLUG to RP-SMA PLUG, for 6M
91-005-074003G	LMR 200 N-PLUG to RP-SMA PLUG, for 9M

EXT-300

P/N	Length
91-005-082001B	ZyAIR EXT-300, Jumper Cable, Surge Arrstor

For more product information, visit us on the web at www.ZyXEL.com



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