



Build a Wholesome WLAN Infrastructure with ZyXEL Selected Accessories

- **Compatible with ZyXEL WLAN devices to get optimal signal quality**
- **Matching colors and exterior looks**
- **Multiple options to meet your current network environments**

When building a wireless LAN infrastructure, the IT staff should consider several factors influencing transmission efficiency, such as different facility sizes, building materials and interior divisions. To address this concern, a comprehensive WLAN solution for wireless LAN deployments can be critical.


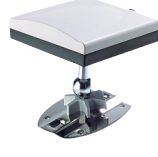


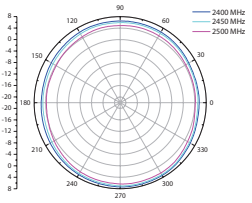
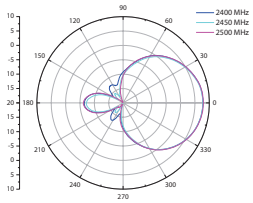
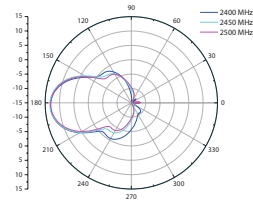
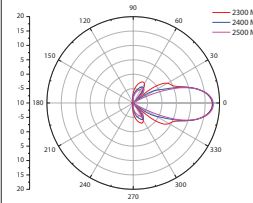
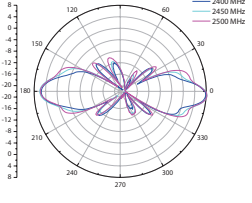
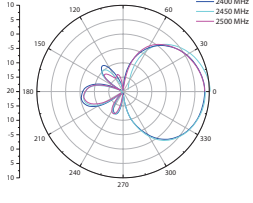
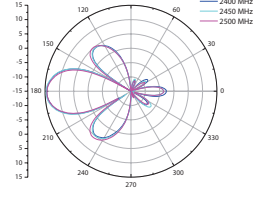
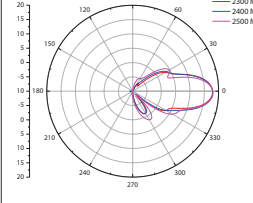
To facilitate the installation process, ZyXEL offers a complete range of 2.4 GHz and 5 GHz antennas, cables and other accessories for Access Points (APs) to enable customized wireless deployments for almost any installation types.



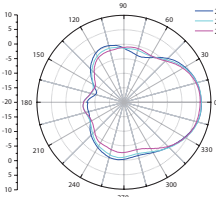
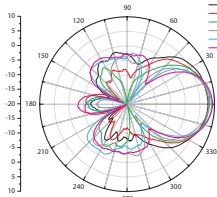
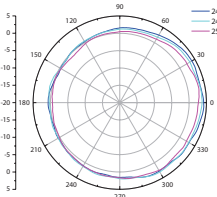
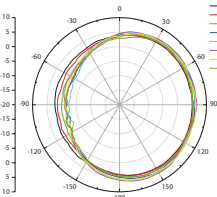
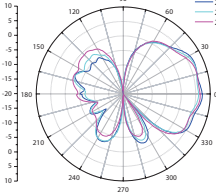
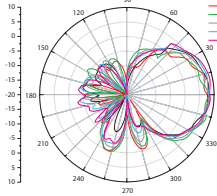
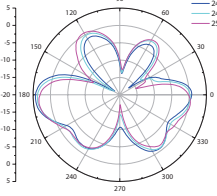
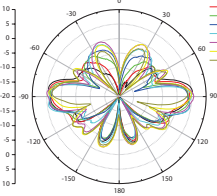








The ZyXEL antennas are available in various space, directionality, gain and range capabilities in different form factors. With appropriately coupled antennas and APs, businesses will enjoy perfect WLAN environments with superior coverage, better reliability and higher data rates in all kinds of facilities. In addition, the ZyXEL low-loss cables can be used to extend the distance between any ZyXEL 2.4 GHz and 5 GHz AP and the antenna through N-plug or RP-SMA connectors.



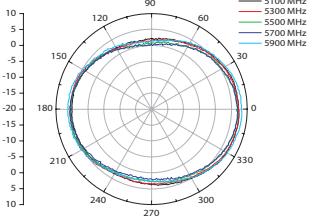
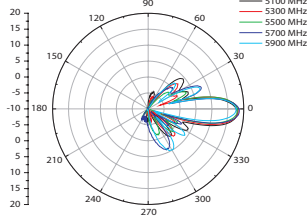
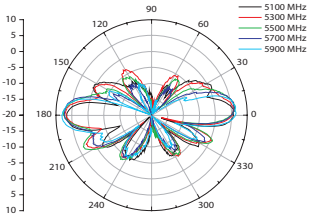
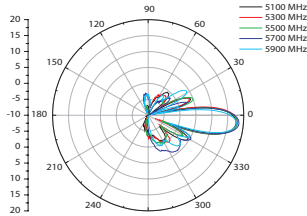
This document is to help our customers with the selection of suitable antennas and related accessories for their deployment.

Specifications

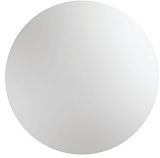


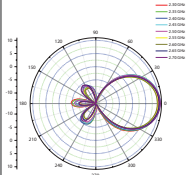
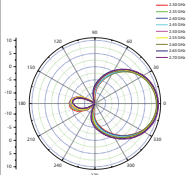
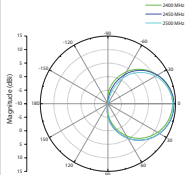
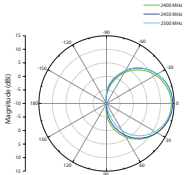
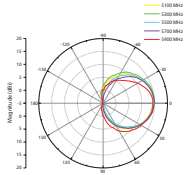
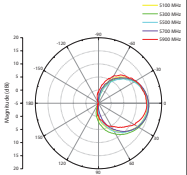
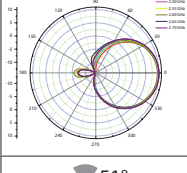
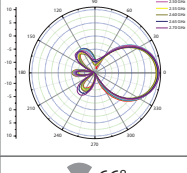
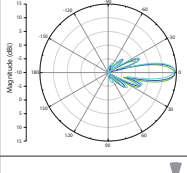
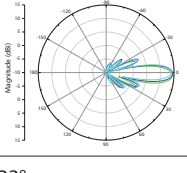
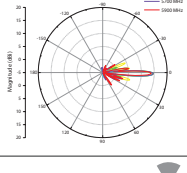
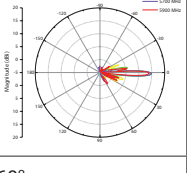
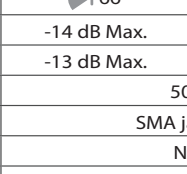
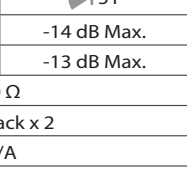
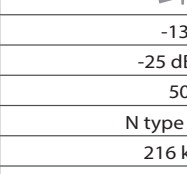
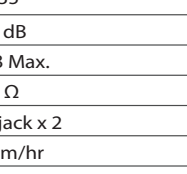
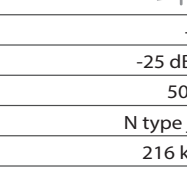
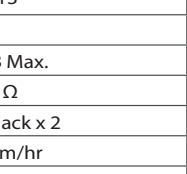
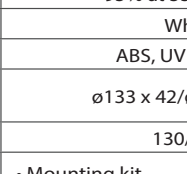
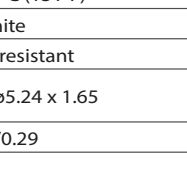
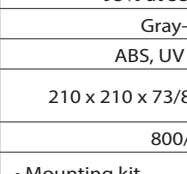
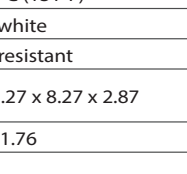
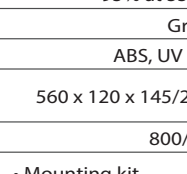
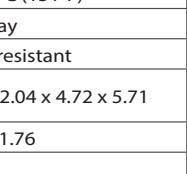
Antenna



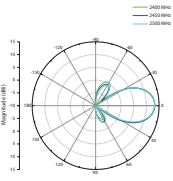
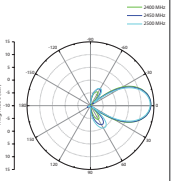
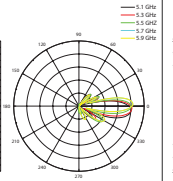
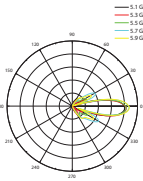
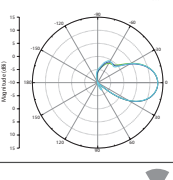
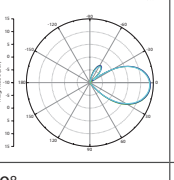
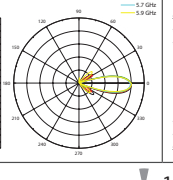
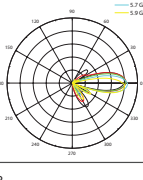
| Model | EXT-108 | EXT-109 | EXT-114 | EXT-118 |
|-----------------------------------|---|---|---|---|
| Product name | 2.4 GHz 8 dBi Omni-Directional Outdoor Antenna  | 2.4 GHz 9 dBi Directional Outdoor Patch Antenna  | 2.4 GHz 14 dBi Directional Outdoor Panel Antenna  | 2.4 GHz 18 dBi Directional Outdoor Panel Antenna  |
| Space | Outdoor | Outdoor | Outdoor | Outdoor |
| Frequency band (MHz) | 2400 - 2500 | 2400 - 2500 | 2400 - 2500 | 2400 - 2500 |
| Gain | 8 dBi | 8.5 dBi (peak) | 14 dBi | 18 dBi |
| VSWR | 2.0:1 Max. | 1.5:1 Max. | 1.5:1 Max. | 1.5:1 Max. |
| Polarization | Linear, vertical | Linear, vertical | Linear, vertical | Linear, vertical |
| Radiation pattern: H-plane |  |  |  |  |
| Radiation pattern: V-plane |  |  |  |  |
| HPBW/Horizontal | 360° | 65° | 30° | 15° |
| HPBW/Vertical | 15° | 60° | 30° | 5° |
| Front to back ratio | - | 15 dB | 15 dB | 26 dB |
| Impedance | 50 Ω | 50 Ω | 50 Ω | 50 Ω |
| Connector | N type jack | N type jack | N type jack | N type jack |
| Survival wind speed | 216 km/hr | 216 km/hr | 216 km/hr | 216 km/hr |
| Temperature | -40°C to 80°C/-40°F to 176°F | -40°C to 80°C/-40°F to 176°F | -40°C to 80°C/-40°F to 176°F | -40°C to 80°C/-40°F to 176°F |
| Humidity | 95% at 25°C (77°F) | 95% at 55°C (131°F) | 95% at 55°C (131°F) | 95% at 55°C (131°F) |
| Radome color | Gray-white | Light gray | Gray/White | White |
| Radome material | Fiber glass | ABS, UV resistant | ABS | ABS, UV resistant |
| Dimensions (WxDxH)(mm/in.) | 80 x 78 x 520/ 3.15 x 3.07 x 20.47 | 114 x 114 x 40/ 4.49 x 4.49 x 1.57 | 200 x 200 x 50/ 7.87 x 7.87 x 1.97 | 360 x 360 x 16/ 14.17 x 14.17 x 0.63 |
| Weight (g/lb.) | 340/0.75 | 107/0.24 | 407/0.90 | 1600/3.53 |
| Accessory kit | <ul style="list-style-type: none"> Screw kit N-plug adapter Mounting kit Quick installation guide | <ul style="list-style-type: none"> Cable: N-plug, RP-SMA plug; 3 m Mounting plate Quick installation guide | <ul style="list-style-type: none"> Cable: N-plug, RP-SMA plug; 3 m Mounting kit Quick installation guide | <ul style="list-style-type: none"> Cable: N-plug, RP-SMA plug; 3 m Mounting set Quick installation guide |

| Model | ANT2206 | | ANT2105 | |
|-----------------------------------|---|---|---|--|
| Product name | Dual-Band 6 dBi Directional Indoor Antenna  | | Dual-Band 5 dBi Omni-Directional Outdoor Antenna  | |
| Space | Indoor | | Outdoor | |
| Frequency band (MHz) | 2400 - 2500 | 4900 - 5875 | 2400 - 2483 | 5150 - 5875 |
| Gain | 6 dBi | 8 dBi | 4.5 dBi | 7 dBi |
| VSWR | 2.0:1 Max. | | 2.0:1 Max. | |
| Polarization | Linear, vertical | Linear, vertical | Linear, vertical | Linear, vertical |
| Radiation pattern: H-plane |  |  |  |  |
| Radiation pattern: V-plane |  |  |  |  |
| HPBW/Horizontal |  65° |  50° |  360° |  360° |
| HPBW/Vertical |  75° |  50° |  30° |  15° |
| Front to back ratio | 12 dB | | - | |
| Impedance | 50 Ω | | 50 Ω | |
| Connector | RP-SMA plug | | N type plug | |
| Survival wind speed | - | | 216 km/hr | |
| Temperature | -10°C to 55°C/14°F to 131°F | | -10°C to 70°C/14°F to 158°F | |
| Humidity | 95% at 55°C (131°F) | | 95% at 55°C (131°F) | |
| Radome color | White, black | | White | |
| Radome material | ABS, UV resistant | | ABS | |
| Dimensions (WxDxH)(mm/in.) | 76 x 86 x 118/2.99 x 3.39 x 4.65 | | f 22 x 183 | |
| Weight (g/lb.) | 110/0.24 | | 70/0.15 | |
| Accessory kit | <ul style="list-style-type: none"> Screw kit Quick installation guide | | - | |




| Model | ANT3108 | ANT3218 |
|-----------------------------------|---|---|
| Product name | 5 GHz 8 dBi Omni-Directional Outdoor Antenna  | 5 GHz 18 dBi Directional Outdoor Antenna  |
| Space | Outdoor | Outdoor |
| Frequency band (MHz) | 5150 - 5875 | 5150 - 5875 |
| Gain | 8 dBi | 18 dBi |
| VSWR | 2.0:1 Max | 2.0:1 Max |
| Polarization | Linear, vertical | Linear, vertical |
| Radiation pattern: H-plane |  |  |
| Radiation pattern: V-plane |  |  |
| HPBW/Horizontal | 360° | 15.5° |
| HPBW/Vertical | 20° | 15.5° |
| Front to back ratio | - | 27 dB |
| Impedance | 50 Ω | 50 Ω |
| Connector | N type jack | N type jack |
| Survival wind speed | 216 km/hr | 216 km/hr |
| Temperature | -40°C to 80°C/-40°F to 176°F | -40°C to 80°C/-40°F to 176°F |
| Humidity | 95% at 55°C (131°F) | 95% at 55°C (131°F) |
| Radome color | White | Gray-white |
| Radome material | ABS, UV resistant | ABS, UV resistant |
| Dimensions (WxDxH)(mm/in.) | f 20 x 260 | 210 x 210 x 73/ 8.27 x 8.27 x 2.87 |
| Weight (g/lb.) | 206/0.46 | 700/1.54 |
| Accessory kit | <ul style="list-style-type: none"> • Mounting kit • Quick installation guide | <ul style="list-style-type: none"> • Mounting kit • Quick installation guide |

MIMO Antenna


| Model | ANT1310 | | ANT1313 | | ANT1314 | |
|-----------------------------------|---|--|--|---|--|--|
| Product name | 2.4 GHz 10 dBi MIMO Ceiling Mount Indoor Antenna  | | 2.4 GHz 13 dBi MIMO Directional Outdoor Antenna  | | 2.4 GHz 14 dBi MIMO Directional Outdoor Antenna  | |
| Space | Indoor | | Outdoor | | Outdoor | |
| Frequency band (MHz) | 2300 - 2700 | | 2400 - 2500 | | 2400 - 2500 | |
| Gain | 9 - 10 dBi | | 13 - 13.5 dBi | | 14 ±0.5 dBi | |
| VSWR | 1.5:1 Max. | | 2.0:1 Max. | | 2.0:1 Max. | |
| Polarization | Linear/Horizontal | Linear/Vertical | Cross polarization ±45° | | Linear; ±45° | |
| Radiation pattern: H-plane | Port A  | Port B  | Port A  | Port B  | Port A  | Port B  |
| |  |  |  |  |  |  |
| Radiation pattern: V-plane |  |  |  |  |  |  |
| |  |  |  |  |  |  |
| HPBW/Horizontal | 51° | | 33° | | 60° | |
| HPBW/Vertical | 66° | | 35° | | 13° | |
| Side lobes level | -14 dB Max. | | -13 dB | | - | |
| Front to back ratio | -13 dB Max. | | -25 dB Max. | | -25 dB Max. | |
| Impedance | 50 Ω | | 50 Ω | | 50 Ω | |
| Connector | SMA jack x 2 | | N type jack x 2 | | N type jack x 2 | |
| Survival wind speed | N/A | | 216 km/hr | | 216 km/hr | |
| Temperature | -10°C to 55°C/14°F to 131°F | | -40°C to 80°C/-40°F to 176°F | | -40°C to 80°C/-40°F to 176°F | |
| Humidity | 95% at 55°C (131°F) | | 95% at 55°C (131°F) | | 95% at 55°C (131°F) | |
| Radome color | White | | Gray-white | | Gray | |
| Radome material | ABS, UV resistant | | ABS, UV resistant | | ABS, UV resistant | |
| Dimensions (WxDxH)(mm/in.) | ø133 x 42/ø5.24 x 1.65 | | 210 x 210 x 73/8.27 x 8.27 x 2.87 | | 560 x 120 x 145/22.04 x 4.72 x 5.71 | |
| Weight (g/lb.) | 130/0.29 | | 800/1.76 | | 800/1.76 | |
| Accessory kit | <ul style="list-style-type: none"> • Mounting kit • Quick installation guide | | <ul style="list-style-type: none"> • Mounting kit • Quick installation guide | | <ul style="list-style-type: none"> • Mounting kit • Quick installation guide | |

| Model | ANT3315 | ANT3316 |
|-----------------------------------|---|--|
| Product name | 5 GHz 15 dBi MIMO Directional Outdoor Antenna  | 5 GHz 16 dBi MIMO Directional Outdoor Antenna  |
| Space | Outdoor | Outdoor |
| Frequency band (MHz) | 5150 - 5875 | 5150 - 5875 |
| Gain | 15±0.5 dBi | 15 - 16 dBi |
| VSWR | 2.0:1 Max. | 2.0:1 Max. |
| Polarization | Linear, ±45° | Linear, ±90° |
| Radiation pattern: H-plane | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Port A</p>  </div> <div style="text-align: center;"> <p>Port B</p>  </div> <div style="text-align: center;"> <p>Port A</p>  </div> <div style="text-align: center;"> <p>Port B</p>  </div> </div> | |
| Radiation pattern: V-plane | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div> | |
| HPBW/Horizontal | ▼ 60° | ▲ 19° |
| HPBW/Vertical | — 8° | ▶ 21° |
| Side lobes level | -5 dB Max. | - |
| Front to back ratio | -30 dB Max. | -20 dB Max. |
| Impedance | 50 Ω | 50 Ω |
| Connector | N type jack x 2 | N type jack x 2 |
| Survival wind speed | 216 km/hr | 216 km/hr |
| Temperature | -40°C to 80°C/-40°F to 176°F | -40°C to 80°C/-40°F to 176°F |
| Humidity | 95% at 55°C (131°F) | 95% at 55°C (131°F) |
| Radome color | Gray | Gray-white |
| Radome material | ABS, UV resistant | ABS, UV resistant |
| Dimensions (WxDxH)(mm/in.) | 560 x 120 x 145/22.04 x 4.72 x 5.71 | 210 x 210 x 73/8.27 x 8.27 x 2.87 |
| Weight (g/lb.) | 1.4/3.09 | 800/1.76 |
| Accessory kit | <ul style="list-style-type: none"> • Mounting kit • Quick installation guide | <ul style="list-style-type: none"> • Mounting kit • Quick installation guide |

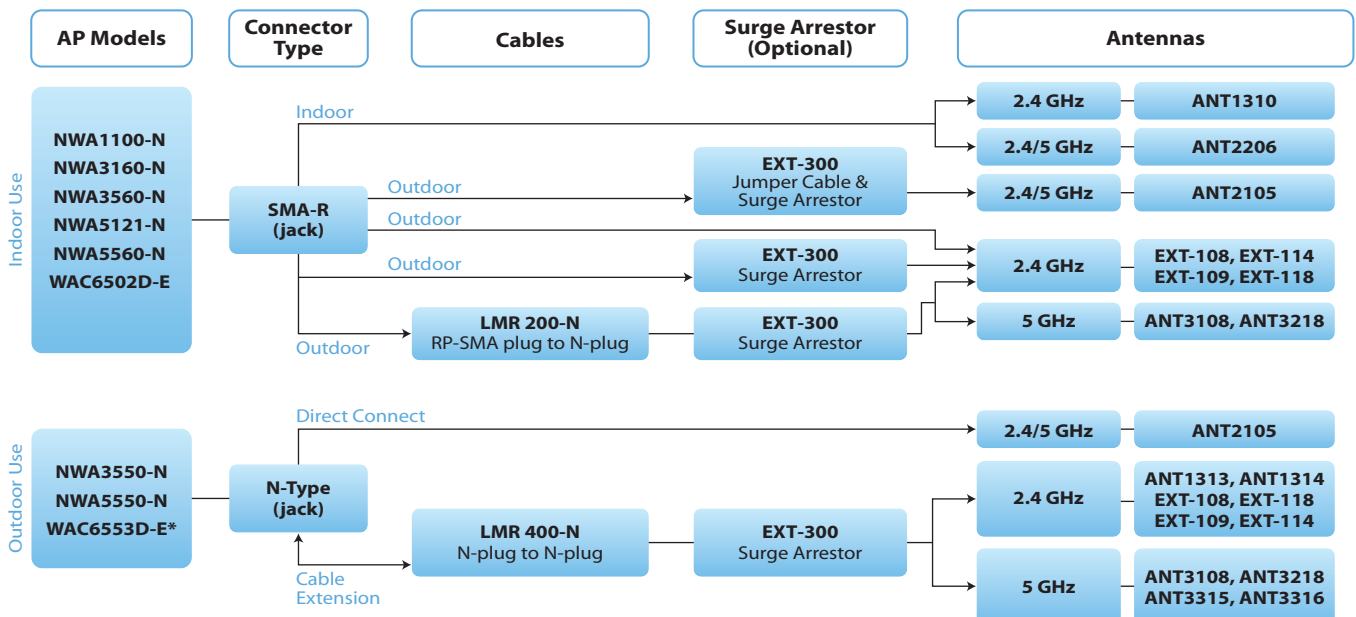
Cable

| Model | LMR 200-N | LMR 400-N | EXT-300 |
|------------------------------|--|---|--|
| Product name | RP-SMA Plug to N-plug Cable  | N-plug to N-plug Cable  | Surge Arrestor with Jumper Cable SMA-R to N  |
| Connector | N-plug, RP-SMA plug | N-plug, N-plug | RP-SMA plug, N-jack (Jumper cable)/ N-plug, N-jack (Surge arrester) |
| Cable length | 3 m, 9 m | 1 m, 9 m | 0.5 m |
| Outer diameter | 4.95 mm | 10.29 mm | - |
| Operating temperature | -40°C to 85°C/-40°F to 185°F | -40°C to 85°C/-40°F to 185°F | -40°C to 85°C/-40°F to 185°F |
| Attenuation | 55.4 dB/100 m @2.5 GHz | 22.2 dB/100 m @2.5 GHz | 1.5 dB @0 - 6 GHz (Jumper cable) 0.8 dB @0 - 6 GHz (Surge arrester) |

Ceiling Mounting Kit

| Model | Ceiling Mounting Kit |
|----------------------|--|
| Product photo |  |
| Description | For NWA3160-N, NWA3560-N, NWA5160N, NWA5560-N |

Installation Compatibility



* ANT1313, ANT1314, ANT3315, ANT3316 are 2x2 MIMO antenna fitting in with NWA3550-N, NWA5550-N 2x2 AP (WAC6553D-E is a 3x3 AP)



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



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