


Business WLAN Quick Sales Guide 2008-09

Accessories

| Product | ANT2206 | ANT3108 | ANT3218 |
|---------------------|---|---|---|
| Graphic |  |  |  |
| Space | Outdoor | | Outdoor |
| Frequency Band | 2400 ~ 2500 MHz | 4900 ~ 5875 MHz | 5150 ~ 5875 MHz |
| Gain | 6 dBi | 8 dBi | 18 dBi |
| VSWR | 2.0:1 Max | 2.0:1 Max | 2.0:1 Max |
| Polarization | Linear, vertical | Linear, vertical | Linear, vertical |
| HPBW/Horizontal | 65° | 50° | 360° |
| HPBW/Vertical | 75° | 50° | 18° |
| Down Tilt | N/A | N/A | 0° |
| Power Handling | N/A | 2 W (cw) | 50 W (cw) |
| Front to Back Ratio | 12 dB | N/A | 25 dB |
| Impedance | 50 Ω | 50 Ω | 50 Ω |
| Connector | RP SMA Plug | N Type Female | N Type Jack |
| Survival Wind Speed | 216 km/hr | 216 km/hr | 216 km/hr |
| Temperature | -10°C to 55°C | -10°C to 55°C | -40°C to 80°C |
| Humidity | 95% at 55°C | 95% at 55°C | 95% at 55°C |
| Radome Color | White, Black | White | Gray-white |
| Radome Material | ABS, UV Resistant | ABS, UV Resistant | ABS, UV Resistant |
| Weight | 110 g | 206 g | 640 g |
| Dimensions (mm) | 76 x 86 x 118 (W x D x H) | f20 x 260 | 210 x 210 x 73 (W x D x H) |

Cable

| Product | LMR 200 | LMR 400 | Cable Kit for Outdoor AP | EXT-300 |
|----------------|---|---|---|---|
| Graphic |  |  |  |  |
| Specifications | RP-SMA plug to N-plug | N-plug to N-plug | RJ-45 CAT 5e STB Cable w/ Water-Proof cover 15 m | Jumper Cable & Surge Arrestor |

Others

| Product | Ceiling Mounting Kit | NWA3550 Mounting Kit | PSE Kits |
|----------------|---|---|---|
| Graphic |  |  |  |
| Specifications | For NWA-3160, NWA-3163, NWA-3165, NWA-3500 | For NWA3550 | <ul style="list-style-type: none"> - Input: AC 100 V to AC 240 V - Output: 48 Vdc/350 mA (IEEE 802.3af compliant) 48 Vdc/500 mA 24 Vdc/800 mA 18 Vdc/1 A - Operation Temperature -40°C to 85°C - Storage Temperature -10°C to 70°C - Operation Humidity 5% to 90% |

NWA-3160 Hybrid Business WLAN AP

WLAN Controller + Managed AP + Stand Alone AP

The NWA-3160 Hybrid AP is total WLAN solution for SMB. The groundbreaking Hybrid AP brings the benefit of centralized WLAN to simplify deployment and maintenance; furthermore, the Hybrid AP also provides high-quality radio performance and enterprise class stand-alone AP functionality. NWA-3160 Hybrid AP has 3 modes for users to choose from: Controller, Managed AP and Stand-Alone AP.

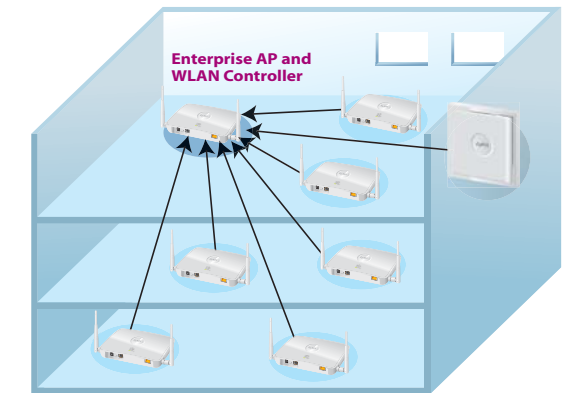
Controller: This mode can manage a variety of AP solutions provided by ZyXEL; including dual-radio AP (NWA-3500), high-power AP (NWA-3163), and outdoor AP (NWA3550). The AP function is enabled at the same time when configured as "Controller".

Managed AP: This mode makes the unit fully manageable by another ZyXEL Hybrid AP.

Stand-Alone: NWA-3160 performs as stand-alone enterprise WLAN access point in this mode.

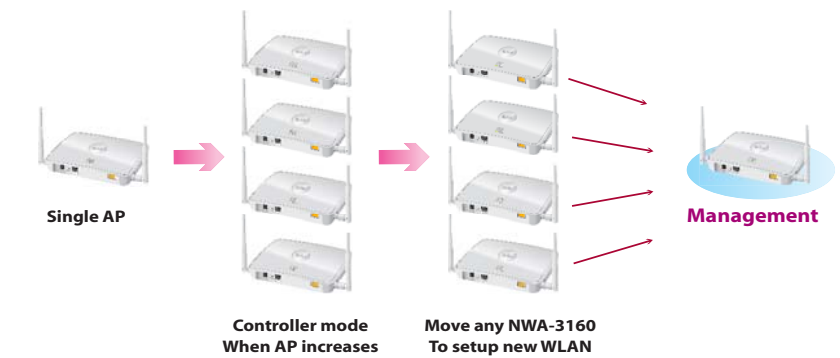
Benefit 1 - Reducing Maintenance Efforts

- NWA-3160 Hybrid AP can manage another 8 NWA-3160/3163/3500/3550.
- Manage multiple access points as easy as a single AP.



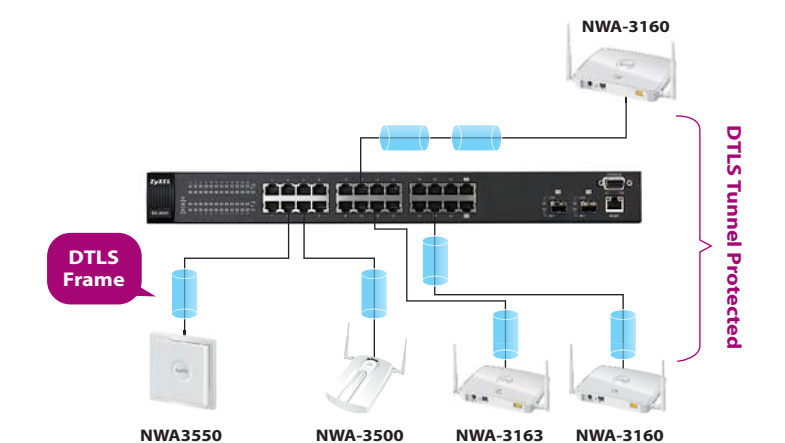
Benefit 2 - No extra cost for building a centralized WLAN with stand-alone APs

- NWA-3160 provides WLAN controller + Access point functionalities at the price of an access point.
- Only one or two NWA-3160 is needed to deploy a WLAN network, at the beginning they can be switched to the controller mode as more access points join the network.
- It's flexible to set up another WLAN with any NWA-3160.



Benefit 3 - Enterprise class design to build reliable and scalable Wi-Fi Network

- Scalable to adopt different sizes of business entity
- Enterprise level security- all configuration are done thru secured tunnel
- Preventing form the risk of configuration exposed or the risk of AP to be stolen since no configuration stored in managed AP.



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

Business Wireless Products Feature Matrix

| Product | Small Medium Enterprise | | | |
|-------------------------------------|---|---|---|---|
| | NWA-1100 | NWA-3165 | NWA-3100 | NWA-3160 |
| Graphic |  |  |  |  |
| Product Category | Web-Managed AP | Web-Managed AP | Web-Managed AP | Hybrid AP |
| Main Design | | | | |
| Wireless Technology | 802.11g | 802.11n Draft | Super A/G | Super A/G |
| Radio | 1 | 1 | 1 | 1 |
| High Power | • | | | |
| Number of Antenna | 2 | 3 | 2 | 2 |
| LAN & WAN | | | | |
| Number of 10/100M LAN/Switch | 1 | 1 | 1 | 1 |
| WAN | N/A | N/A | N/A | N/A |
| PoE | • | • | • | • |
| Max. Power Levels at Powered Device | 7.2 W | 7.6 W | 6.3 W | 6.5 W |
| Min. Power Levels Output at PSE | 15.4 W | 15.4 W | 15.4 W | 15.4 W |
| WLAN Features | | | | |
| Maximum Throughput | 22 – 24 Mbps | 100 – 110 Mbps | Up to 33 Mbps | Up to 33 Mbps |
| WMM (Wi-Fi Certified) | • | • | • | • |
| WEP | • | • | • | • |
| WPA (Wi-Fi Certified) | • | • | • | • |
| WPA2 (Wi-Fi Certified) | • | • | • | • |
| Rogue AP Detection | | • | • | • |
| WLAN Management | | | | |
| Controller | | | | • |
| Managed AP | | | | • |
| Others | | | | |
| Plenum Rating | | • | | • |

| Product | Small Medium Enterprise | | | |
|-------------------------------------|---|---|---|---|
| | NWA-3163 | NWA-3500 | NWA3550 | NXC-8160 & NWA-8500 |
| Graphic |  |  |  |  |
| Product Category | Hybrid AP | Hybrid AP | Hybrid AP | WLAN Switch |
| Main Design | | | | |
| Wireless Technology | Super A/G | Super A & G | Super A & G | 802.11 & g* |
| Radio | 1 | 2 | 2 | 2 |
| High Power | • | | | |
| Number of Antenna | 2 | 2 | 2 N-type Connectors | 4 |
| LAN & WAN | | | | |
| Number of 10/100M LAN/Switch | 1 | 1 | 1 | |
| WAN | N/A | N/A | N/A | N/A |
| PoE | • | • | • | • |
| Max. Power Levels at Powered Device | 6.9 W | 7.3 W | 16.2 W | 7.5 W |
| Min. Power Levels Output at PSE | 15.4 W | 15.4 W | Need to use packaged PSE device | 15.4 W |
| WLAN Features | | | | |
| Maximum Throughput | Up to 33 Mbps | Up to 33 Mbps | Up to 33 Mbps | 22 – 44 Mbps |
| WMM (Wi-Fi Certified) | • | • | • | |
| WEP | • | • | • | |
| WPA (Wi-Fi Certified) | • | • | • | • |
| WPA2 (Wi-Fi Certified) | • | • | • | Compatible |
| Rogue AP Detection | • | • | • | |
| WLAN Management | | | | |
| Controller | | | | • |
| Managed AP | • | • | • | |
| Others | | | | |
| Plenum Rating | • | | | |

* Function/Features provided by NWA-8500.

| Product | Small Medium Enterprise | |
|---------------------------------------|---|---|
| | VSG-1200 V2 | G-4100 v2 |
| Graphic |  |  |
| Product Category | Service Gateway | WLAN Service Gateway |
| Main Design | | |
| Wireless Technology | N/A | 802.11g |
| Number of 10/100M LAN/Switch | 1 | 4 |
| WAN | | 1 |
| PoE | | |
| Max. Power Levels at Powered Device | | 6 W |
| Min. Power Levels Output at PSE | | 15.4 W |
| WLAN Features (G-4100 v2 only) | | |
| 802.11b/g | | • |
| Number of Antenna | | 2 |
| Maximum Throughput | | 22 – 24 Mbps |
| WEP | | • |
| WPA (Wi-Fi Certified) | | • |
| WPA2 (Wi-Fi Certified) | | • |
| Others Features | | |
| Built-in Authentication | • | • |
| RADIUS Authentication Support | • | • |
| IP Plug-and-play | • | • |
| Layer-2 Isolation | • | • |
| Customization Log-in Page | • | • |
| Max. Concurrent User | 250 | 100 |
| PMS Integration | • | |
| Ticket Printer—SP300E |  <ul style="list-style-type: none"> - Button x 3 - Input: 5 V DC, 2.5 A - Paper Width: 58 (+0/-1) mm - Paper length (max.): 50 meters - Support 802.3af Power over Ethernet | |

Optional Antenna Feature Matrix

Accessories

| Product | EXT-108 | EXT-109 | EXT-114 | EXT-118 |
|---------------------|---|---|---|---|
| Graphic |  |  |  |  |
| Space | Outdoor | Outdoor | Outdoor | Outdoor |
| Frequency Band | 2400 – 2500 MHz | 2400 – 2500 MHz | 2400 – 2500 MHz | 2400 – 2500 MHz |
| Gain | 8 dBi | 9 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 |
| HPBW/Horizontal | 360° | 65° | 30° | 15° |
| HPBW/Vertical | 15° | 60° | 30° | 15° |
| Down Tilt | 0° | 0° | 0° | 0° |
| Power Handling | 10 W (cw) | 20 W (cw) | 10 W (cw) | 50 W (cw) |
| Front to Back Ratio | N/A | 15 dB | 15 dB | 26 dB |
| Impedance | 50 Ω | 50 Ω | 50 Ω | 50 Ω |
| Connector | N Type Jack | N Type Jack | N Type Female | N Type Female |
| Survival Wind Speed | 216 km/hr | 216 km/hr | 216 km/hr | 180 km/hr |
| Temperature | -40°C to 80°C | -40°C to 80°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 |
| Radome Color | Gray-white | Gray-white | White | White |
| Radome Material | Fiber Glass | ABS | ABS, UV Resistant | ABS, UV Resistant |
| Weight | 337 g | 107 g | 407 g | 1.6 kg |
| Dimensions (mm) | f 19 x 250 | 114 x 114 x 40 (W x D x H) | 200 x 200 x 50 (W x D x H) | 360 x 360 x 16 (W x D x H) |