

5GHz 802.11a/n Wireless Outdoor Access Point



High Power Outdoor Wireless Coverage

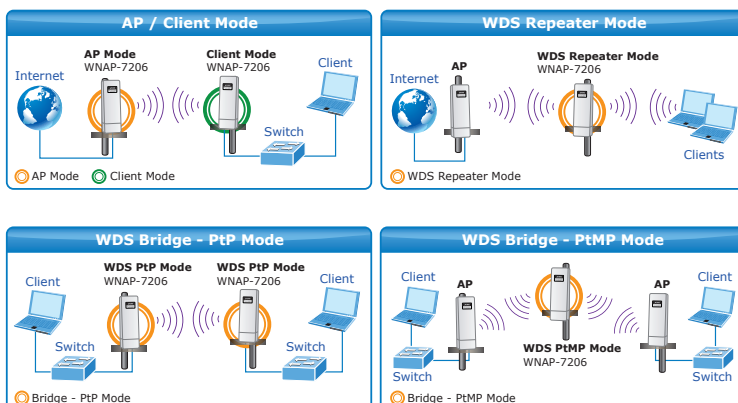
PLANET Technology introduces the latest high power outdoor wireless LAN solution - the outdoor wireless AP, WNAP-7206. It provides higher transmit power, better performance, and widely coverage than standard outdoor wireless AP. The WNAP-7206 is compatible with IEEE 802.11a/n standard supporting the data rate up to 150Mbps in 802.11n mode. The WNAP-7206 not only has built-in 15dBi panel Antenna but also reserves one RP-SMA Type Antenna Connector to allow versatile antenna installations and multiple adjustable transmit output power controller. Therefore, the WNAP-7206 is quite suitable for widely open space applications.



Multiple Operating & Wireless Modes

The WNAP-7206 supports multiple wireless communication connectivity (AP / Client CPE / WDS PtP / WDS PtMP / Repeater / Universal Repeater) allowing for various application requirements and thus it gives users more comprehensive experience when using the WNAP-7206. It helps users to easily build a wireless network and extend the wireless range of existing wireless network.

The WNAP-7206 also supports WISP mode, so CPE users could easily connect to Internet via WISP provider or connect to a wired network.



Industrial Compliant Wireless LAN & LAN

- Compliant with IEEE 802.11n wireless technology capable of up to 150Mbps data rate
- Backward compatible with 802.11a standard
- Equipped with 10/100Mbps RJ-45 Ports for LAN & WAN, Auto MDI/ MDI-X supported

Fixed-network Broadband Router

- Supported connection types: Dynamic / Static IP / PPPoE / PPTP / L2TP / Russia Dual-Access
- Supports multiple sessions IPSec, L2TP and PPTP VPN pass-through
- Supports Virtual Server, DMZ and Port Triggering for various networking applications
- Supports DHCP Server, UPnP, Dynamic DNS

RF Interface Characteristics

- Built-in 15dBi directional antenna
- High Output Power up to 500mW with multiple adjustable transmit power control
- Reserve RP-SMA Type Connector

Outdoor Environmental Characteristics

- Outdoor weatherproof enclosure, with built-in 15KV ESD and 4000V lightning protection
- Passive Power over Ethernet design
- Operating temperature: -30~70 Degree C

Multiple Operation & Wireless Mode

- Multiple Operation Modes: Bridge, Gateway, Ethernet Converter
- Multiple Wireless Modes: AP, Client CPE (WISP), WDS PtP, WDS PtMP, Repeater, Universal Repeater
- Supports Multiple SSID allowing users to access different networks through one single AP
- Supports WMM (Wi-Fi Multimedia)

Advanced Security and Management

In aspect of security, besides 64/128/152-bit WEP encryption, the WNAP-7206 integrates WPA / WPA2, WPA-PSK / WPA2-PSK to secure and protect your wireless LAN. The wireless MAC filtering and SSID broadcast control consolidate the wireless network security and prevent unauthorized wireless connection. To fulfill enterprise and various applications demand, the WNAP-7206 enhances security and management features such as multiple SSID support. It can create up to 4 virtual standalone AP with 4 different SSID according to individual security level and encryption scheme of various wireless devices.

Highly Reliable Outdoor Device

The WNAP-7206 is perfectly suitable to be installed in outdoor environments and exposed locations. Its built-in 15KV ESD and 4000V lightning protection can withstand storm and prevent damage from lightning surges. Furthermore, the WNAP-7206 can perform stably under rigorous weather conditions including heavy rain and wind by its Outdoor Weatherproof case protection. With the proprietary Power over Ethernet (PoE) design, the WNAP-7206 can be easily applied in any area where power outlets are not available. It is the best way using the WNAP-7206 to build outdoor wireless access applications between buildings on campuses, business, rural areas and etc.

Easy Installation & Management

With User-friendly Web UI and step by step Setup Wizard, the WNAP-7206 is easier to install, even for users who never experience setting up a wireless network. Furthermore, with SNMP-Based management interface, the WNAP-7206 is convenient to be managed and configured remotely.

Secure Network Connection

- Advanced security: 64/128/152-bit WEP, WPA / WPA2, and WPA-PSK / WPA2-PSK (TKIP/AES)
- Supports NAT firewall features, with SPI function to protect against DoS attacks
- Supports IP / Protocol-based access control and MAC Filtering

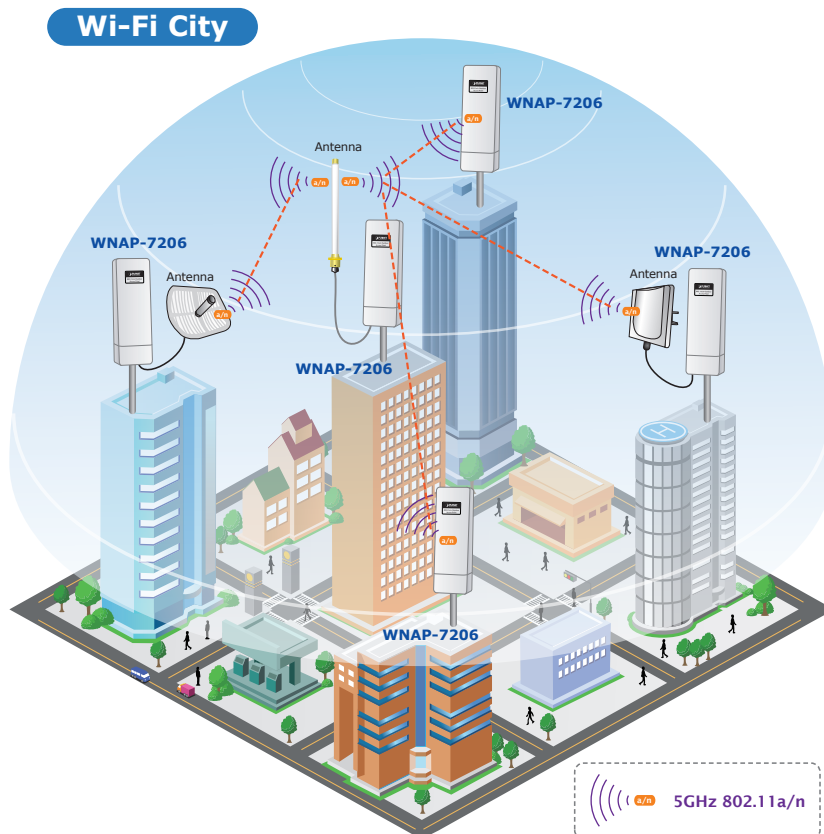
Easy Installation & Management

- User-friendly Web-Based UI and SNMP-Based management
- Quick Setup Wizard for easy configuration
- Remote Management allows configuration from a remote site
- Intelligent Antenna Alignment tool speeds up field deployment
- System status monitoring includes DHCP Client, System Log

Application

Longer distance coverage between LAN connections

The WNAP-7206 is a cost-effective outdoor wireless solution for widely open space applications. It is best suitable for outdoor wireless connections between buildings.



Specification

| | | |
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| Product | 150Mbps 802.11a/n Wireless Outdoor Access Point | |
| Model | WNAP-7206 | |
| Hardware Specification | | |
| Standard compliance | IEEE 802.11a/n IEEE 802.3 IEEE 802.3u IEEE 802.3x | |
| Memory | 32 Mbytes DDR SDRAM 4 Mbytes Flash | |
| Button | Reset Button x 1 | |
| LED | Provides 4-Level signal LED indicator | |
| PoE | Passive PoE (Up to 60 meters) | |
| Interface | Wireless IEEE 802.11a/n LAN / WAN: 10/100Base-TX, Auto-MDI/MDIX x 1 Grounding Terminal x 1 | |
| Antenna | Internal (Default): 15dBi directional antenna (Dual-Polarization) <ul style="list-style-type: none"> ■ Horizontal: 60 degree ■ Vertical: 14 degree External (Option): RP-SMA Female type Connector <ul style="list-style-type: none"> ■ Switchable by Software ■ For External Antenna Mode, attach antenna before power on. | |
| Data Rate | 802.11a: 54, 48, 36, 24, 18, 12, 9 and 6Mbps 802.11n (20MHz): up to 72Mbps 802.11n (40MHz): up to 150Mbps | |
| Media Access Control | CSMA/CA | |
| Modulation | Transmission / Emission Type: OFDM Data modulation type: OFDM with BPSK, QPSK, 16-QAM, 64-QAM | |
| Frequency Band | 5.180-5.240GHz; 5.745-5.825GHz | |
| Operating Channel | 5.180GHz-CH36 5.200GHz-CH40 5.220GHz-CH44 5.240GHz-CH48 5.745GHz-CH149 | 5.765GHz-CH153 5.785GHz-CH157 5.805GHz-CH161 5.825GHz-CH165 |
| | *The actual channels will vary depends on the regulation in different regions and countries. | |
| RF Output Power | 802.11a: 27 ± 1dBm 802.11n: 24 ± 1dBm | |
| Receiver Sensitivity | 802.11a: 54M: -77dBm 48M: -79dBm 36M: -83dBm 24M: -86dBm 18M: -91dBm 12M: -92dBm 9M: -93dBm 6M: -94dBm | 802.11n: 150M: -73dBm 121.5M: -76dBm 108M: -77dBm 81M: -81dBm 54M: -84dBm 40.5M: -88dBm 27M: -91dBm 13.5M: -93dBm |
| Output Power Control | High (default) Middle Low | |
| Power Requirements | Passive PoE 12V Pin 4,5 VDC+ Pin 7,8 VDC- | |
| Power Adapter | 12V DC, 1A (max.) | |
| Environment & Certification | | |
| Temperature | Operating: -30~70 Degree C Storage: -40~70 Degree C | |
| Humidity | Operating: 10~90% non-condensing Storage: 5~95% non-condensing | |
| Enclosure | Outdoor Weatherproof design 15KV ESD & 4000V Lightning Protection Grounding Terminal Integrated | |
| Regulatory | CE / FCC / RoHS | |

| Software | | |
|----------------------|---|---|
| LAN | Built-in DHCP server supporting static IP address distributing | |
| | Supports UPnP, Dynamic DNS | |
| | Supports Flow Statistics | |
| | IP & MAC Binding | |
| | IP / Protocol-based Bandwidth Control | |
| WAN | <ul style="list-style-type: none"> ■ Static IP ■ Dynamic IP ■ PPPoE / Russia PPPoE | <ul style="list-style-type: none"> ■ PPTP / Russia PPTP ■ L2TP / Russia L2TP ■ BigPond Cable |
| | VPN Passthrough | <ul style="list-style-type: none"> ■ PPTP ■ L2TP |
| Operating Mode | <ul style="list-style-type: none"> ■ Standard AP (Wireless AP) ■ AP Router (Wireless Broadband Router) ■ AP Client Router (WISP Client Router) | |
| Firewall | NAT firewall with SPI (Stateful Packet Inspection) | |
| | NAT with ALG (Application Layer Gateway) | |
| | Built-in NAT server supporting Port Triggering, Virtual Server, and DMZ | |
| | Built-in firewall with IP address / MAC / DNS filtering | |
| | Supports ICMP-FLOOD, UDP-FLOOD, TCP-SYN-FLOOD filter, DoS protection | |
| Wireless Mode | <ul style="list-style-type: none"> ■ AP ■ Client ■ WDS PTP | <ul style="list-style-type: none"> ■ WDS PTMP ■ WDS Repeater (AP+WDS) ■ Universal Repeater (AP+Client) |
| | Channel Width | 20MHz / 40MHz |
| Wireless Isolation | Enable to isolate each connected wireless clients | |
| Wireless Security | 64/128/152-bits WEP, WPA, WPA-PSK, WPA2, WPA2-PSK | |
| | Wireless MAC address filtering | |
| | Enable/Disable SSID Broadcast | |
| Multiple SSID | Up to 3 | |
| Max. Wireless Client | 25 | |
| Max. WDS AP | 4 | |
| Max. Wired Client | 60 | |
| WMM | Supports Wi-Fi Multimedia | |
| NTP | Network Time Management | |
| Management | Web-Based (HTTP) management interface | |
| | Supports SNMP v1/v2 agent with MIB-II | |
| | Remote management | |
| | SNTP time synchronize | |
| | Easy firmware upgrade | |
| | Configuration Backup & Restore | |
| Diagnostic tool | DHCP Client List | |
| | System Log supports auto mail and save to local host | |
| | Ping Watch Dog allows you to continuously monitor the particular connection between the device and a remote host. | |
| | Throughput Monitor provides real-time wireless throughput information | |
| | Speed Test helps to test the connection speed | |

Ordering Information

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| WNAP-7206 | 802.11a/n Wireless Outdoor Access Point |
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Related Products

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| CB-STP-25 | 25 Meters STP Cat5 Cable |
| ELA-100 | Ethernet Lightning Arrest Box |
| ANT-OM10A | 5GHz 10dBi Omni-Directional Antenna |
| ANT-FP18A | 5GHz 18dBi Flat Panel Directional Antenna |
| ANT-FP23A | 5GHz 23dBi Flat Panel Directional Antenna |
| ANT-SE17A | 5GHz 16.5dBi Sector Antenna |
| ANT-SE21A | 5GHz 21dBi Sector Antenna |
| WL-SMA-0.6 | 300Mbps 802.11n Wireless Micro USB Adapter |
| WL-SMA-6 | 300Mbps Dual-Band 802.11n Wireless USB Adapter |
| WL-LTNA | 2.4/5GHz Lightning Arrester (N-male to N-female) |

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WNAP-7206