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.

**High Power
Long Distance
Better Performance**

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.
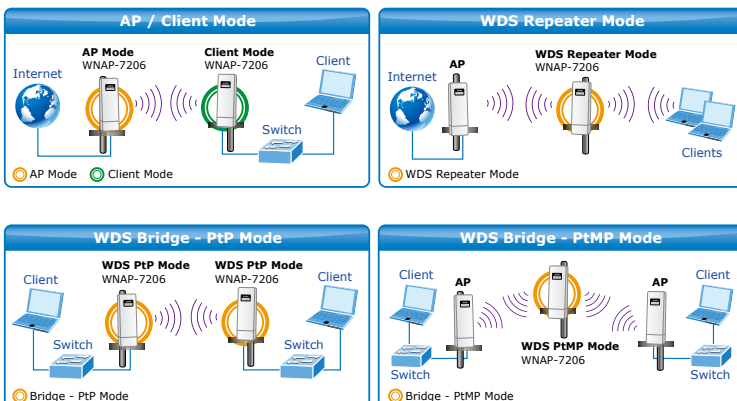
Industrial Compliant Wireless LAN & LAN

- 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
- Comply with DFS ||

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
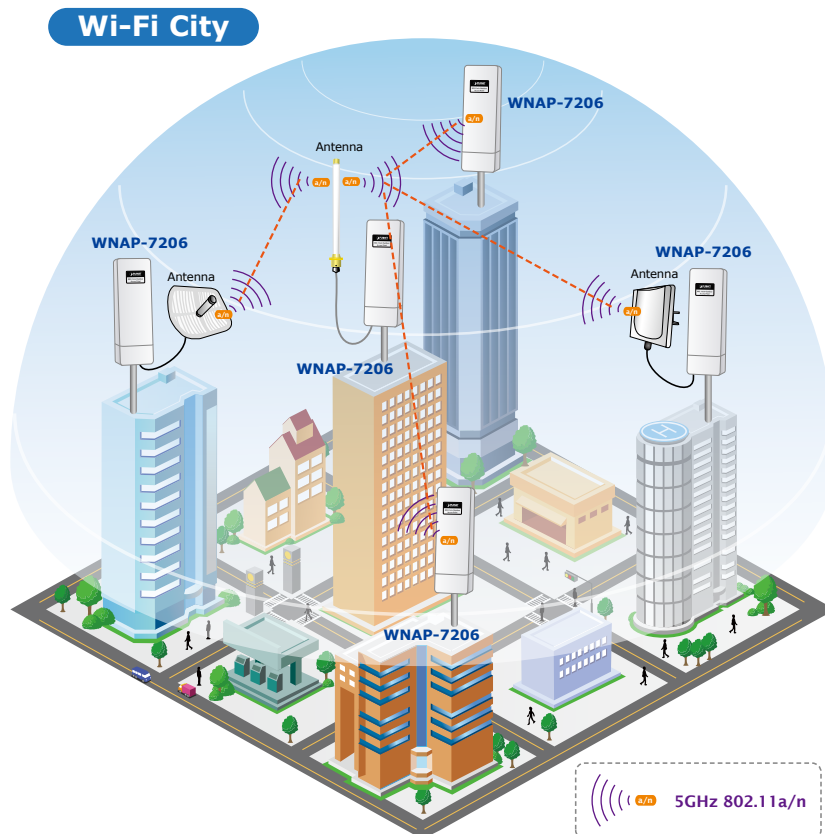
Easy Installation & Management

- 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.

Wi-Fi City

5GHz 802.11a/n

Specification

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)
	  ■ Horizontal: 60 degree
	  ■ Vertical: 14 degree
	External (Option): RP-SMA Female type Connector
	  ■ 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 150Mbp
Media Access Control	CSMA/CA
Modulation	Transmission / Emission Type: OFDM Data modulation type: OFDM with BPSK, QPSK, 16-QAM, 64-QAM
Frequency Band	ETSI: 5.180-5.240GHz; FCC: 5.745-5.825GHz
Operating Channel	5.180GHz-CH36 5.765GHz-CH153 5.200GHz-CH40 5.785GHz-CH157 5.220GHz-CH44 5.805GHz-CH161 5.240GHz-CH48 5.825GHz-CH165 5.745GHz-CH149 *The actual channels will vary depends on the regulation in different regions and countries.
RF Output Power	23dBm (EIRP)

Receiver Sensitivity	**802.11a:** **802.11n:**
	  54M: -77dBm 150M: -73dBm
	  48M: -79dBm 121.5M: -76dBm
	  36M: -83dBm 108M: -77dBm
	  24M: -86dBm 81M: -81dBm
	  18M: -91dBm 54M: -84dBm
	  12M: -92dBm 40.5M: -88dBm
	  9M: -93dBm 27M: -91dBm
	  6M: -94dBm 13.5M: -93dBm

Output Power Control	High (default) : 23 dBm Middle : 12 dBm Low: 6 dBm
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	■ Static IP	■ PPTP / Russia PPTP
	■ Dynamic IP	■ L2TP / Russia L2TP
	■ PPPoE / Russia PPPoE	■ BigPond Cable
VPN Passthrough	■ PPTP	■ IPSec
	■ L2TP	
Operating Mode	■ 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	■ AP	■ WDS PTMP
	■ Client	■ WDS Repeater (AP+WDS)
	■ WDS PTP	■ 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	
	DHCP Client List	
Diagnostic tool	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

WNAP-7206-EG	802.11a/n Wireless Outdoor Access Point - ETSI

Related Products

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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