

# 2.4GHz 150Mbps 802.11n Wireless Outdoor Access Point



## High Power Outdoor Wireless Coverage

PLANET WNAP-6308 provides a wireless solution that can be easily attached directly to the antenna, which has more flexibility to extend outdoor wireless coverage. Adopting IEEE 802.11n advanced MIMO technology, it provides reliable wireless network coverage, and incredible improvement in the wireless performance. As an IEEE 802.11b/g/n compliant wireless device, the WNAP-6308 is able to give stable and efficient wireless performance for outdoor applications, while designed with IEEE 802.11n standard and 1T1R MIMO technology, the WNAP-6308 makes it possible to deliver data rate up to 150Mbps, three times faster than the normal 802.11g wireless device. With the built-in N-type antenna connector, it can directly connect with various types and high gain antenna such as grid, omni directional, flat panel and yagi-design antennas. Thus, the WNAP-6308 can easily cover a wide range and deliver much farther wireless connection with a distance of over 10km. The WNAP-6308 optionally comes with the following PLANET's products: ANT-OM8, ANT-OM15, ANT-FP9, ANT-FP18, ANT-SE18, ANT-YG13, ANT-YG20, and ANT-GR21.



## Industrial Compliant Wireless LAN & LAN

- Compliant with IEEE 802.11n wireless technology capable of up to 150Mbps data rate
- Backward compatible with 802.11b/g standard
- Equipped with 10/100Mbps RJ-45 LAN Port, Auto MDI / MDI-X supported

## Fixed-network Broadband Router

- Supported connection types: Dynamic IP / Static IP / PPPoE / PPTP / L2TP / IPSec
- Supports Virtual Server, DMZ for various networking applications
- Supports DHCP Server, UPnP, Dynamic DNS

## RF Interface Characteristics

- Built-in N-type Male Antenna Connector
- High Output Power up to 200mW with multiply adjustable transmission power control

## Outdoor Environmental Characteristics

- IP55 Protection, UV Resistance
- Passive Power over Ethernet design
- Operating Temperature: -35 ~ 65 degrees C

## Multiple Operation & Wireless Mode

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

## Secure Network Connection

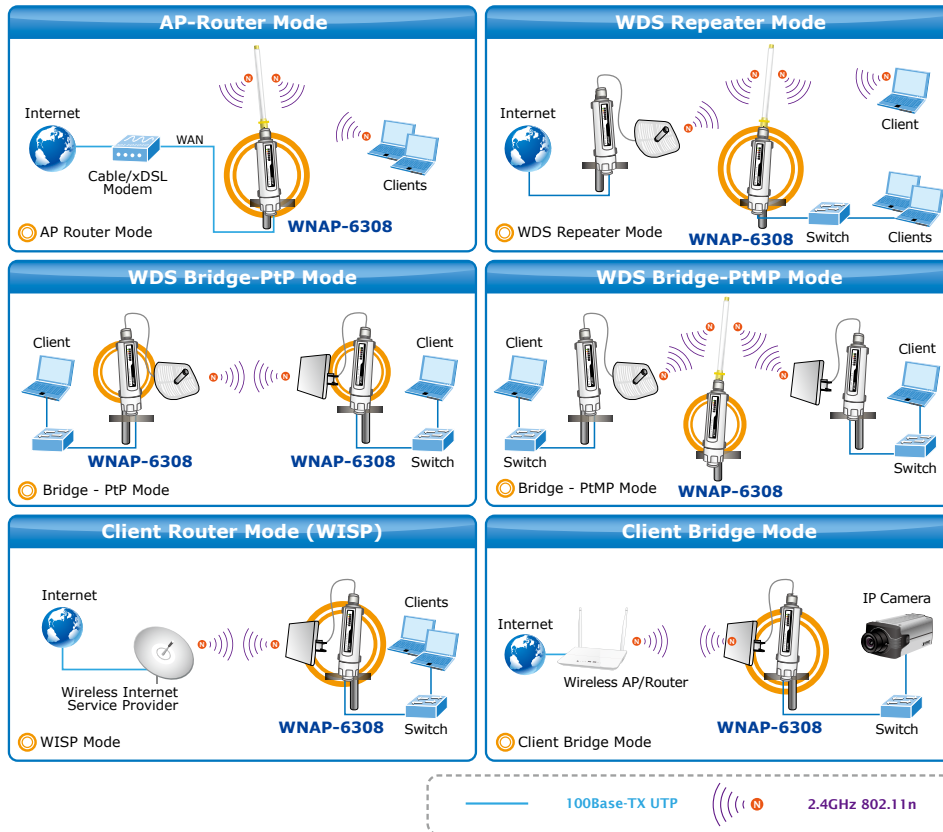
- Supports Software Wi-Fi Protected Setup (WPS)
- Advanced security: 64/128-bit WEP, WPA / WPA2, WPA-PSK / WPA2-PSK (TKIP/AES), and 802.1x Authentication
- Supports NAT firewall features, with SPI function to protect against DoS attacks
- Supports IP / Protocol-based access control and MAC Filtering

## Easy Installation & Management

- Web-based UI and Quick Setup Wizard for easy configuration
- Remote Management allows configuration from a remote site
- SNMP-based management interface
- System status monitoring includes DHCP Client, System Log

**Multiple Operating & Wireless Modes**

The WNAP-6308 supports multiple types of wireless communication connectivity (AP, Client CPE, WDS PtP, WDS PtMP, and Repeater) allowing for various application requirements and thus it gives users more comprehensive experience when accessing through Wireless LAN. It helps users to easily build a wireless network and extend the wireless range of the existing wireless network. Moreover, the WNAP-6308 also supports WISP mode, so CPE users could easily connect to Internet via WISP provider or connect to a wired network.

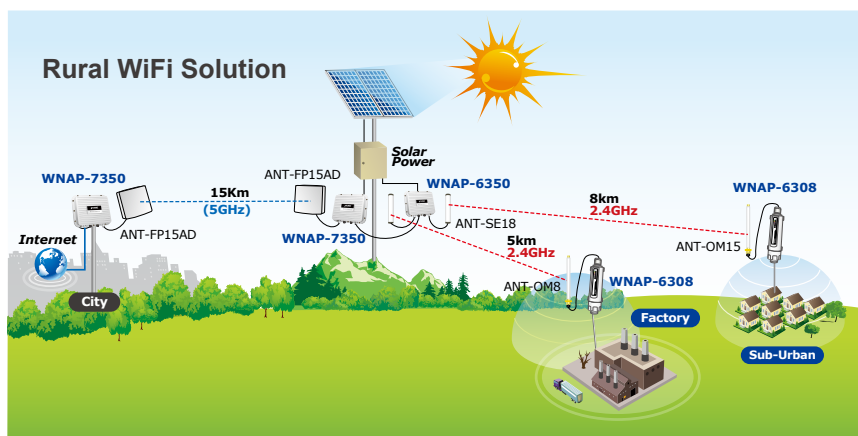


**Advanced Security and Management**

In aspect of security, besides 64/128-bit WEP encryption, the WNAP-6308 integrates WPA / WPA2, WPA-PSK / WPA2-PSK and 802.1x authority 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. Furthermore, with the Dual-SSID feature you can set up two different wireless networks. The WNAP-6308 can therefore serve as a virtual access point for segmented networks tailored to any office or industrial need. With the SNMP-based management interface, the WNAP-6308 is also convenient to be managed and configured remotely.

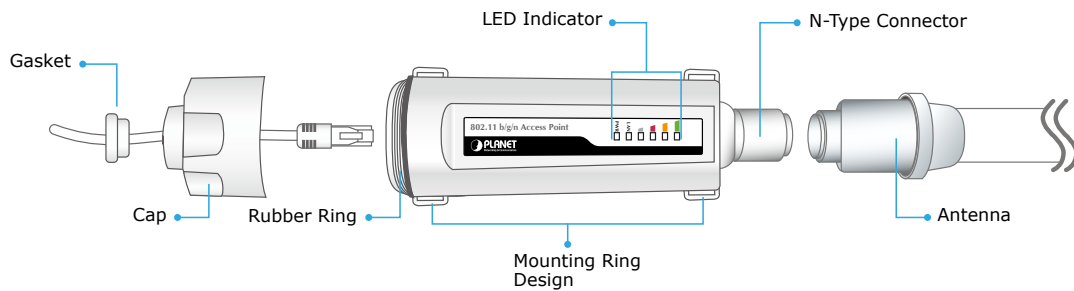
**Highly Reliable Outdoor Device**

The WNAP-6308 is perfectly suitable to be installed in outdoor environments and exposed locations. Rated to operate at the temperature from -35 to 65 degrees C and adopted IP55 and outdoor UV Stabilized Enclosure, the WNAP-6308 can perform stably under rigorous weather conditions including heavy rain and wind. With the proprietary Power over Ethernet (PoE) design, the WNAP-6308 can be conveniently installed in the areas where power outlets are not available. It is the best way to use the WNAP-6308 to build outdoor wireless access applications between buildings on campuses, business and rural areas, etc.



*Easy Plug-n-Link*

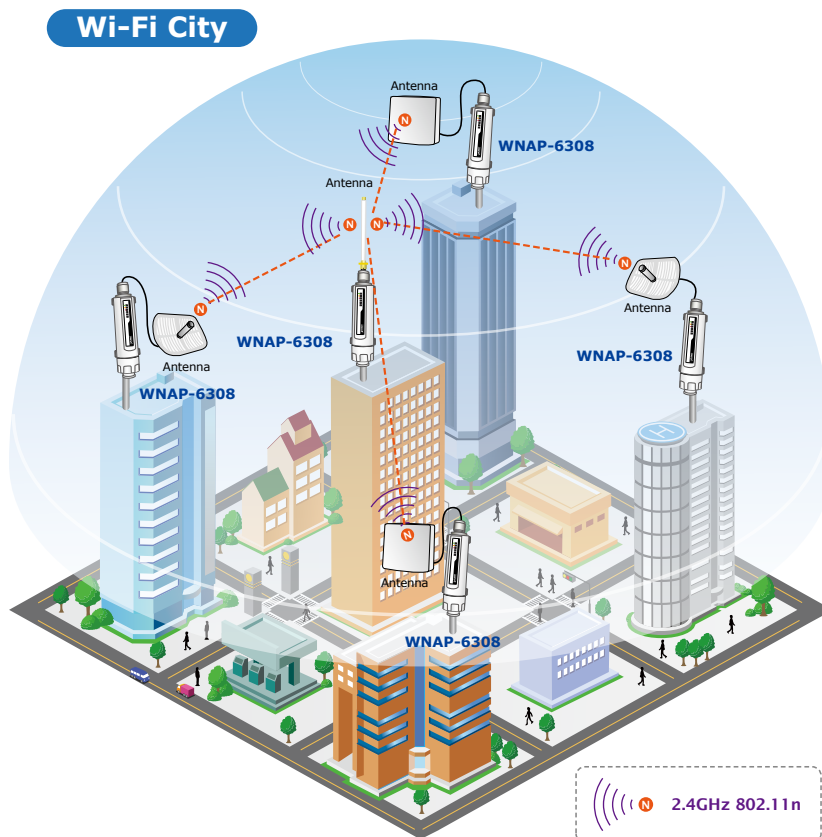
To accomplish the concept of Plug-n-Link through an easy way for outdoor wireless network deployment, the WNAP-6308 comes with a built-in N-type antenna connector, which is commonly adapted to an outdoor antenna. Therefore, it is easier to install via directly plugging into the mounted antenna. This gives the user the convenience of constructing the wireless link in a fast manner even though he has no experience in deploying a wireless network. Moreover, using the straps through the extra ring design on the casing can fasten the WNAP-6308 to prevent from shaking or dropping caused by strong wind and earthquake.



## Applications

*Perfect Outdoor Wireless Applications*

The WNAP-6308 is a cost-effective outdoor wireless solution for widely open space applications. It is ideal for outdoor wireless connections between buildings. With the built-in N-type antenna connector, the WNAP-6308 brings longer coverage and various applications in wireless network. The WNAP-6308 can optionally be attached to higher gain antenna or a specific type of antenna for different applications. In addition, the WNAP-6308 provides high output power with multiply adjustable Tx controller, which allows CPE users to easily install and adjust the suitable value in appropriate locations.



\*\*Sincerely suggest matching the same model in outdoor wireless bridge application for getting the best performance.

## Specifications

Model	<b>WNAP-6308</b> 2.4GHz 150Mbps 802.11n Wireless Outdoor Access Point
<b>Hardware Specifications</b>	
Standard	IEEE 802.11b/g/n Wireless LAN IEEE 802.11i Wireless Security IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Ethernet IEEE 802.3x Flow Control
Memory	32 Mbytes DDR SDRAM 8 Mbytes Flash
Interface	Wireless IEEE 802.11b/g/n, 1T1R LAN / WAN: 1 x 10/100Base-TX, Auto-MDI / MDIX
Antenna	Built-in N-type (Male) Antenna Connector
<b>Wireless RF Specifications</b>	
Wireless Technology	IEEE 802.11b/g IEEE 802.11n
Data Rate	IEEE 802.11b: 11, 5.5, 2 and 1Mbps IEEE 802.11g: 54, 48, 36, 24, 18, 12, 9 and 6Mbps IEEE 802.11n (20MHz): up to 72Mbps IEEE 802.11n (40MHz): up to 150Mbps
Media Access Control	CSMA / CA
Modulation	Transmission/Emission Type: DSSS / OFDM Data modulation type: OFDM with BPSK, QPSK, 16-QAM, 64-QAM, DBPSK, DQPSK, CCK
Frequency Band	2.412GHz ~ 2.484GHz
Operating Channel	America/ FCC: 2.414~2.462GHz (11 Channels) Europe/ ETSI: 2.412~2.472GHz (13 Channels) Japan/ TELEC: 2.412~2.484GHz (14 Channels)
RF Output Power (Max.)	IEEE 802.11b/g: 18 ± 1.5dBm IEEE 802.11n: 16 ± 1.5dBm
Receiver Sensitivity	IEEE 802.11b/g: -95dBm IEEE 802.11n: -91dBm
Output Power Control	3~20dBm
<b>Software Features</b>	
LAN	Built-in DHCP Server supporting static IP address distributing Supports 802.1d STP (Spanning Tree)
WAN	<ul style="list-style-type: none"> <li>■ Static IP</li> <li>■ Dynamic IP</li> <li>■ PPPoE</li> <li>■ PPTP</li> <li>■ L2TP</li> <li>■ IPSec</li> </ul>
Operating Mode	<ul style="list-style-type: none"> <li>■ Bridge</li> <li>■ Gateway</li> <li>■ WISP</li> </ul>
Firewall	NAT firewall with SPI (Stateful Packet Inspection) Built-in NAT Server supporting Virtual Server and DMZ Built-in Firewall with Port / IP Address / MAC / URL Filtering
Wireless Mode	<ul style="list-style-type: none"> <li>■ AP</li> <li>■ Client</li> <li>■ WDS PTP</li> <li>■ WDS PTMP</li> <li>■ WDS Repeater (AP+WDS)</li> </ul>
Channel Width	20MHz / 40MHz
Wireless Isolation	Enables isolation of each connected wireless client from communicating with each other mutually
Encryption Type	64/128-bits WEP, WPA, WPA-PSK, WPA2, WPA2-PSK, 802.1X
Wireless Security	Wireless LAN ACL (Access Control List) Filtering Wireless MAC Address Filtering Supports WPS (Wi-Fi Protected Setup ) Enable / Disable SSID Broadcast

Multiple SSID	Up to 2	
Max. Wireless Client	20	
Max. WDS AP	8	
Max. Wired Client	30	
WMM (Wi-Fi Multimedia)	Yes	
QoS (Quality of Service)	Yes	
NTP (Network Time Management)	Yes	
Management	Web UI, DHCP Client, Configuration Backup & Restore, Dynamic DNS, SNMP	
Diagnostic Tool	System Log, Ping Watchdog	
<b>Mechanical &amp; Power</b>		
IP Rate	IP55	
Material	Outdoor UV Stabilized Enclosure	
Dimensions (Φ x H)	45 x 169 mm	
Weight	128g	
Installation	Pole mounting	
Power Requirements	LAN	12~24V DC, Passive PoE Pin 4,5 V DC+ Pin 7,8 V DC-
Power Consumption	1.5W	
<b>Environment &amp; Certification</b>		
Operating Temperature	-35 ~ 65 degrees C	
Operating Humidity	5 ~ 90% non-condensing	
Regulatory	CE / FCC / RoHS	
<b>Accessory</b>		
Standard Accessories	<ul style="list-style-type: none"> <li>■ Passive PoE Injector &amp; Power Cord x 1</li> <li>■ Plastic Strap x 2</li> <li>■ Quick Installation Guide x 1</li> <li>■ CD (User's Manual, Quick Installation Guide) x 1</li> </ul>	

## Ordering Information

WNAP-6308	2.4GHz 150Mbps 802.11n Wireless Outdoor Access Point – ETSI
	2.4GHz 150Mbps 802.11n Wireless Outdoor Access Point – FCC
	2.4GHz 150Mbps 802.11n Wireless Outdoor Access Point - Japan

## Accessories

CB-STP-25	25-meter STP Cat5 Cable
ELA-100	Ethernet Lightning Arrest Box
ANT-OM8	2.4GHz 8dBi Omni-Directional Antenna
ANT-OM15	2.4GHz 15dBi Omni-Directional Antenna
ANT-FP9	2.4GHz 9dBi Flat Panel Directional Antenna
ANT-FP18	2.4GHz 18dBi Flat Panel Directional Antenna
ANT-SE18	2.4GHz 12-18dBi Adjustable Sector Antenna
ANT-YG13	2.4GHz 13dBi Yagi Directional Antenna
ANT-YG20	2.4GHz 20dBi Yagi Directional Antenna
ANT-GR21	2.4GHz 21dBi Grid Directional Antenna
WL-MF-0.6	0.6-meter N-male (male pin) to N-female (female pin) Cable
WL-N-10	10-meter N-male (male pin) to N-female (female pin) Extension Cable
WL-LTNA	2.4/5GHz Lightning Arrester (N-male to N-female)

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**VIDELCO** Europe Limited – Professionelle Audio-, Video-, Medien-Technik  
 Fon: +49 (0)2102 / 86 39-00 • Fax: +49 (0)2102 / 86 39-17 • nfo@videlco.eu • www.videlco.eu