

Product Specification

802.11n Wireless Outdoor Access Point

WNAP-6306

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Change History:

Revision	Date	Author	Change List
Version 1.0	2012-02-10	Miki Chou	Initial release

Author	Miki	Editor:	Miki
Approved by:	Tom	Project Leader:	Kent

1. PRODUCT DESCRIPTION



PLANET Technology Corp. provides a wireless solution that can be easily attached directly to the antenna, the Wireless Outdoor Access Point -WNAP-6306.

Faster Speed and Widely Range

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-6306 is able to give stable and efficient wireless performance for outdoor application, while designed with IEEE 802.11n standard and 1T1R MIMO technology makes it possible to deliver three times faster data rate up to 150Mbps than normal 802.11g wireless device. With various type and high gain antenna, it can easily cover widely range and deliver much farther wireless connection over 10Km.

Multiple Operating & Wireless Modes

It supports multiple wireless communication connectivity (AP / Client CPE / WDS PtP / WDS PtMP / Repeater / Universal Repeater), allowing for various application requirements that gives user more comprehensive experience when using WNAP-6306. It also helps user easily to build wireless network and extend the wireless range of existed wireless network.

Advanced Wireless Security

In aspect of security, besides 64/128-bit WEP encryption, the WNAP-6306 integrates WPA / WPA2, WPA-PSK, and WPA2-PSK to secure and protect your wireless LAN. The wireless MAC filtering and SSID broadcast control to consolidate the wireless network security and prevent unauthorized wireless connection.

Perfect Solution for Outdoor Environment

The WNAP-6306 is perfectly suitable to be installed in outdoor environments and exposed locations. With its IP65 casing protection, the WNAP-6306 can perform normally under rigorous weather conditions including heavy rain and wind. With the proprietary Power over Ethernet (PoE) design, the WNAP-6306 can be easily installed in the areas where power outlets are not available. It is the best way using the WNAP-6306 to build

outdoor wireless access applications between buildings on campuses, business, rural areas and etc.

Easy Installation & Deployment

With N-Type antenna connector, and mounting-free design, it is easier to install via directly plugging into the mounted antenna, even through a user who never experiencing deploy a wireless network.

2. PRODUCT FEATURES

- **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
 - Support DHCP Server, UPnP
- **RF Interface Characteristics**
 - Built-in N-Type Antenna Connector
 - High Output Power with multiple adjustable transmit power control
- **Outdoor Environmental Characteristics**
 - IP65 Enclosure
 - Passive Power Over Ethernet Design
 - Operating Temperature: -20 ~ 70°C
- **Multiple Operation & Wireless Mode**
 - Multiple Wireless Modes: AP, Client, WDS PtP/PtMP, Repeater, Universal Repeater
 - Support Dual SSID
- **Secure Network Connection**
 - Support Software Wi-Fi Protected Setup (WPS)
 - Advanced security: 64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK(TKIP/AES)
 - Support MAC Filtering up to 20 clients
- **Easy Installation & Management**
 - User friendly Web-based UI with On-line Help
 - System status monitoring includes DHCP Client, Associated List, System Log
 - Wireless LED Thresholds for antenna alignment
 - Wake-On-LAN(WOL) to allow remotely wake up a WOL enabled host
 - Mounting-free design

3. PRODUCT SPECIFICATION

3.1 MAIN COMPONENT

Chipset:	Ralink RT3050
RAM :	16MB
Flash :	4MB

3.2 FUNCTIONAL SPECIFICATIONS

Product	WNAP-6306 150Mbps 802.11n Wireless Outdoor Access Point
Hardware Specification	
Standard support	IEEE802.11b/g IEEE 802.11n IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3x Flow Control
Chipset	Ralink RT3050
Memory	16 Mbytes DDR SDRAM 4 Mbytes Flash
Interface	Wireless IEEE802.11b/g/n LAN: 1 x 10/100Base-TX, Auto-MDI/MDIX
Antenna	Built-in N-Type (N-Male) Antenna Connector
Enclosure	IP65 waterproof case
PoE	Passive PoE LAN RJ-45 Pin Assignment: PIN 4,5(+), PIN 7,8(-)
Power Requirements	15~18V DC, 1A (switching)
Wireless Interface Specification	
Frequency Band	2.4~2.4835GHz
Modulation	Transmission/Emission Type: DSSS / OFDM Data modulation type: OFDM with BPSK, QPSK, 16-QAM, 64-QAM, DBPSK, DQPSK, CCK
Data Rate	802.11b: 11, 5.5, 2 and 1 Mbps with auto-rate fall back 802.11g: 54, 48, 36, 24, 18, 12, 9 and 6Mbps 802.11n (20MHz): up to 72Mbps 802.11n (40MHz): up to 150Mbps
Opt. 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)
Max. RF Output Power	802.11b: 20 ± 1dBm 802.11g: 19 ± 1dBm 802.11n: 16 ± 1dBm
Receiver Sensitivity	802.11b: -84dBm 802.11g: -68dBm 802.11n (20MHz): -65dBm 802.11n (40MHz): -62dBm
Media Access Control	CSMA/CA
Output Power Control	Range 1~100, default:100
Wireless Management Features	
Wireless Mode	<ul style="list-style-type: none"> ■ AP ■ Client ■ WDS PtP ■ WDS PtMP

	<ul style="list-style-type: none"> ■ WDS Repeater (AP+WDS) ■ Universal Repeater (AP+Client)
Channel Width	20MHz / 40MHz
Encryption Security	64/128-bits WEP WPA, WPA-PSK WPA2, WPA2-PSK
AP Isolation/WLAN Partition	Enable it to isolate each connected wireless clients, to let them cannot access mutually.
Wireless Security	Wireless MAC address filtering
	Support WPS (WIFI Protected Setup)
	Enable/Disable SSID Broadcast
Multiple SSID	Support Dual-SSID
B/G Protection Mode	A protection mechanism prevents collisions among 802.11b/g modes
Association List	Display current status of the wireless client associate with AP
Max. Wireless Client	25
Max. WDS AP	4
Software	
LAN	Built-in DHCP server supporting static IP address distributing
	DHCP Reserve
Access Control	Support MAC filtering up to 20 MAC address
Max. Wired Client	60
Applications & Game	Support UPnP
Management	Web UI, DHCP Client, WOL
Diagnostic tool	System Log
Environment & Certification	
Operation Temp.	Temp.: -20~70°C, Humidity: 10%~95% non-condensing
Storage Temp.	Temp.: -30~80°C, Humidity: 5%~95% non-condensing
IP Level	IP65
Regulatory	CE / RoHS

3.3 Physical Specification

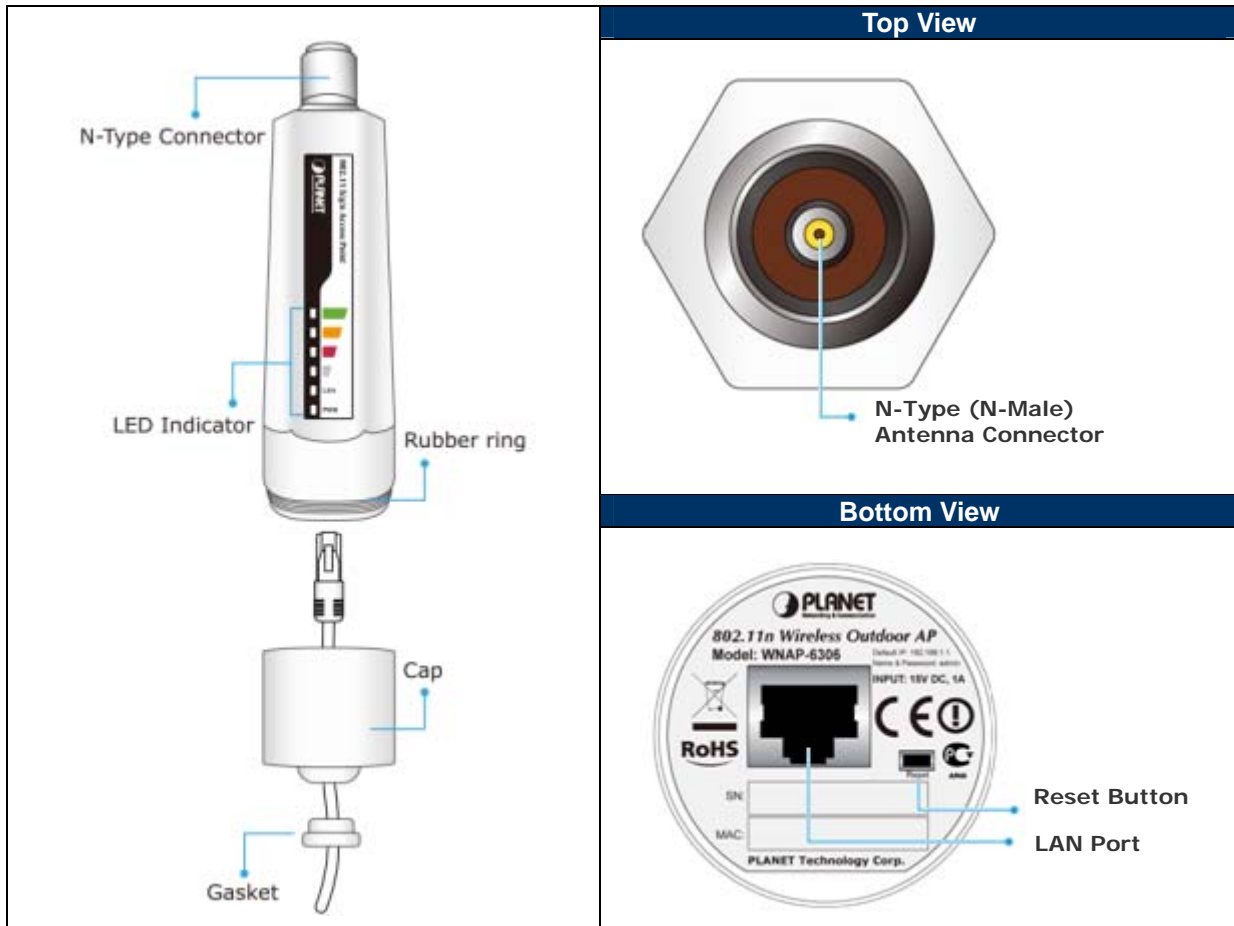
Dimensions

46 x 205 (D x H)

Weight

192g

Rear Panel – Port & Connector



Rear Panel - LED



LED definition

LED		State	Meaning
Power		On	System On
		Off	System Off
LAN		On	Port linked.
		Off	No link.
		Blinking	Data is transmitting or receiving on the LAN interface.
Signal Indicator	LED1	On	The Signal Strength reaches the value
	LED2	On	The Signal Strength reaches the value
	LED3	On	The Signal Strength reaches the value
	LED4	On	The Signal Strength reaches the value

Button definition

Active	Time
Reset	Push continually the reset button about 5 ~ 10 seconds to reset the configuration parameters to factory defaults.

3.4 Environmental Specification

Operating

Temperature:	-20°C ~70°C
Relative Humidity:	10% ~ 90 % non-condensing

Storage

Temperature:	-30°C ~80°C
Relative Humidity:	5% ~ 90 % non-condensing

3.5 BASIC PACKAGING

- WNAP-6306 x 1
- Power Adapter x 1 (15V for UK or 18V for EU/US)
- PoE Injector x 1 (UK only)
- Quick Installation Guide x 1
- CD (User's Manual & Quick Installation Guide) x 1

3.6 PACKAGING INFORMATION

Dimension: 325 x 135 x 70 mm

Weight: 425g (gross weight)