# 5GHz 300Mbps 802.11a/n Wireless Outdoor Access Point

High Power Outdoor Wireless Coverage

PLANET Technology introduces the latest high power outdoor wireless LAN solution - the 300Mbps outdoor wireless AP, WNAP-7350. It provides **higher transmit power**, **better performance**, **widely coverage** and **stable connection** than standard outdoor wireless AP. As an IEEE 802.11a/n compliant wireless device, the WNAP-7350 is able to give stable and efficient wireless performance for long distance application; while designed with IEEE 802.11n standard and 2T2R MIMO technology makes it possible to deliver six times faster data rate up to 300Mbps than normal 802.11a wireless device. It also features adjustable output power up to 500mW to extend higher coverage in outdoor long range application.

Wi-Fi City
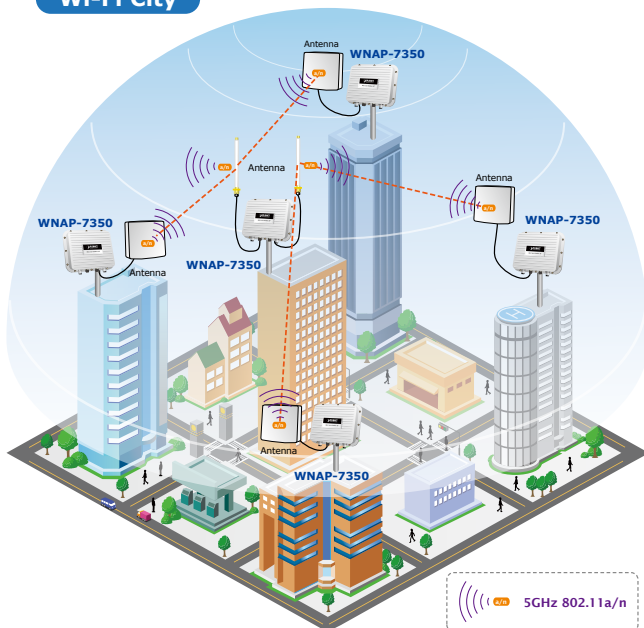
Multiple Operating & Wireless Modes

The WNAP-7350 supports multiple wireless communication connectivity (AP / Client CPE / WDS PtP / WDS PtMP / Repeater) allowing for various application requirements and thus it gives users more comprehensive experience when using the WNAP-7350. It helps users to easily build a wireless network and extend the wireless range of existing wireless network.

The WNAP-7350 also supports WISP mode, so CPE users could easily connect to Internet via WISP provider or connect to a wired network.
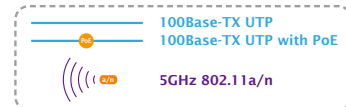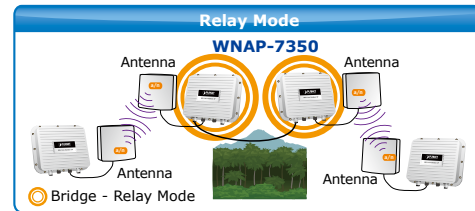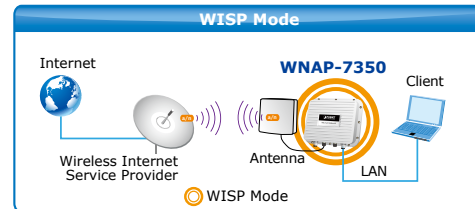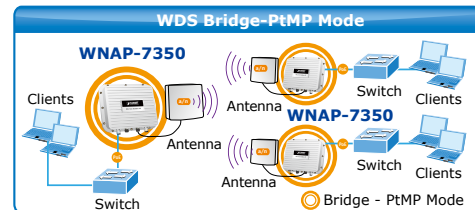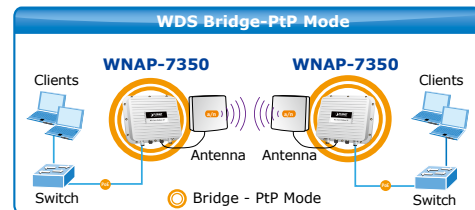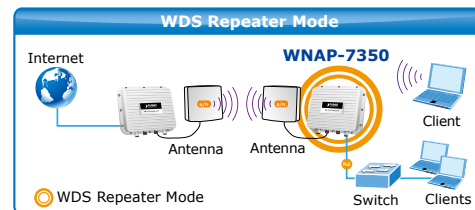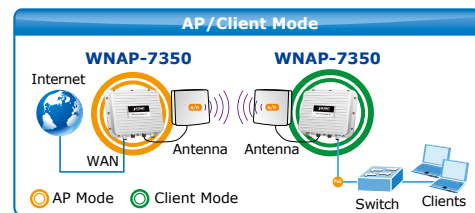
Advanced Security and Management

In aspect of security, besides 64/128- bit WEP encryption, the WNAP-7350 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. To fulfill enterprise and various applications demand, the WNAP-7350 enhances security and management features such as providing multiple SSID support.

Perfect Solution for Outdoor Environment

The WNAP-7350 is perfectly suitable in outdoor environments and exposed locations. By designing with IP67 and aluminum rugged strong housing, the WNAP-7350 can perform normally under rigorous weather conditions including heavy rain, wind and snow. Moreover, the WNAP-7350 is rated to operate at the temperature from -30 to 75 Degree C; thus it can operate more stably than general outdoor equipments. It is the best way using the WNAP-7350 to build outdoor wireless access applications between buildings on campuses, business, rural areas and etc.

Aluminum Housing, IP67 Protection

-30ºC

75ºC

Lightning Protection

Waterproof

Flexible Deployment with PoE Feature

Compliant with IEEE 802.3af Power over Ethernet standard, the WNAP-7350 can be powered by PSE (Power Sourcing Equipment) via a single UTP cable. It thus reduces the needs of extra cables and dedicated electrical outlets on the wall, ceiling or any other places where are difficult to reach. Furthermore, the WNAP-7350 is also suitable to be integrated with PoE Solar Power System to offer farther Wireless service in remote areas. It enables the wireless LAN deployment becomes more flexible and worries free from the power outlet locations.
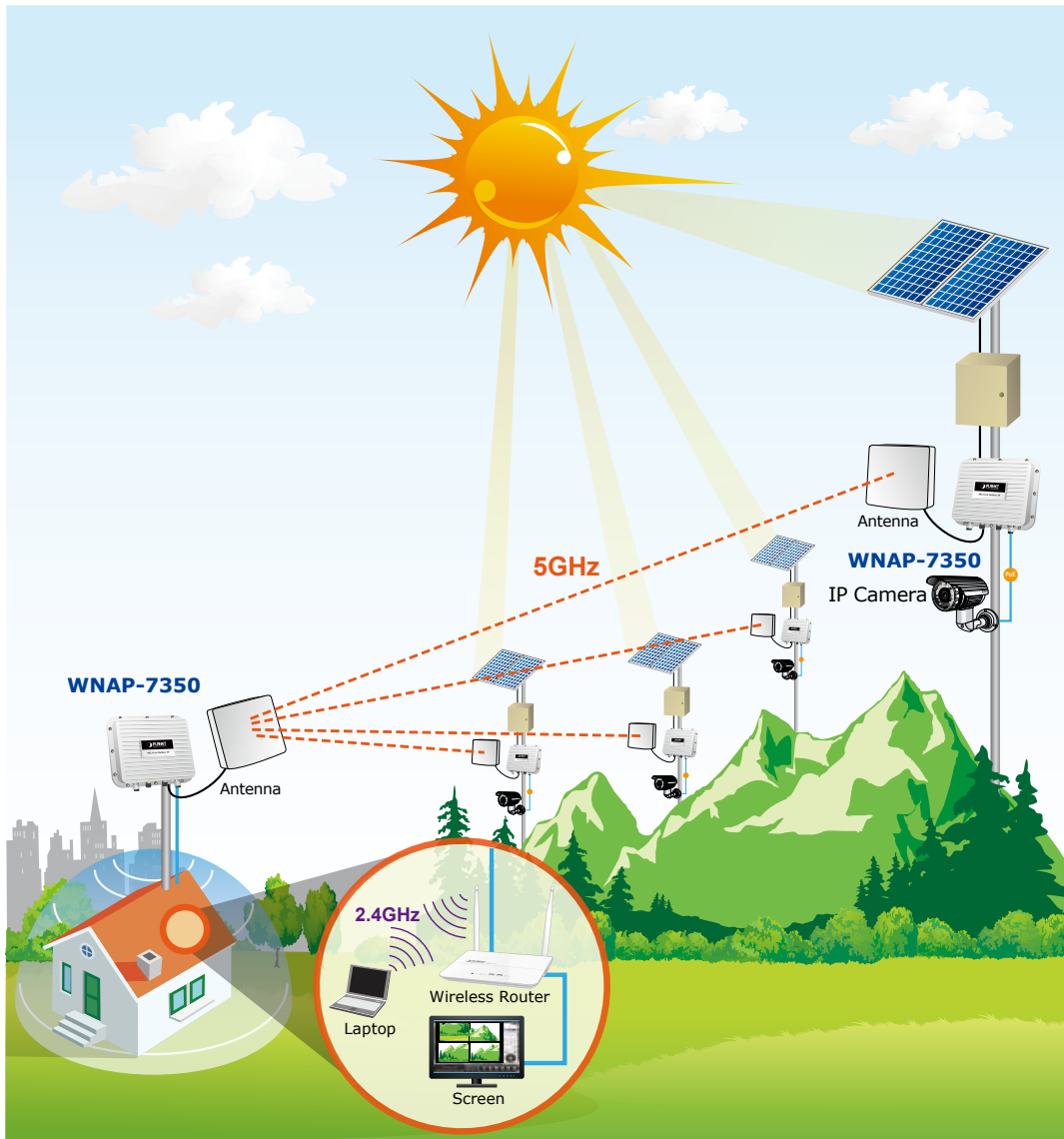
Easy Installation & Management

With user-friendly Web UI and step by step Setup Wizard, the WNAP-7350 is easier to install, even for users who never experience setting up a wireless network. Furthermore, with SNMP-Based management interface, the WNAP-7350 is convenient to be managed and configured remotely.

KEY FEATURES

INDUSTRIAL COMPLIANT WIRELESS LAN & LAN

- Compliant with IEEE 802.11n wireless technology capable of up to 300Mbps 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 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 two N-Type Female Antenna connectors

- High Output Power up to 500mW with multiple adjustable transmit power control

OUTDOOR ENVIRONMENTAL CHARACTERISTICS

- Aluminum Housing, IP67 Protection Grade

- IEEE 802.3af Power over Ethernet design

- Operating Temperature: -30~75 Degree 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

APPLICATIONS

Longer distance coverage between LAN connections

The WNAP-7350 is a cost-effective outdoor wireless solution for widely open space applications. It is ideal for outdoor wireless connections between buildings.
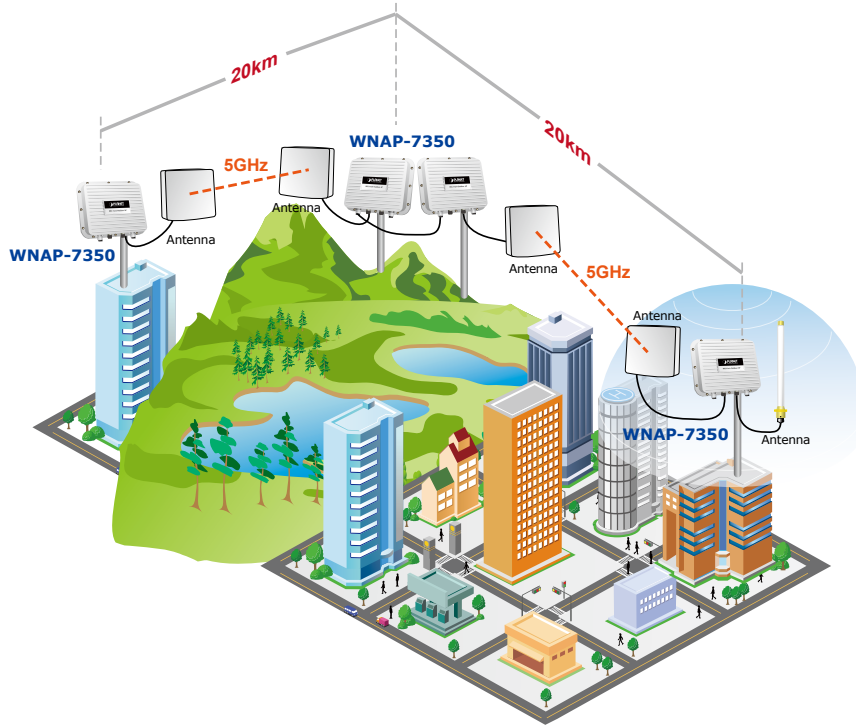
With built-in two N-Type Antenna connectors, the WNAP-7350 brings higher coverage and longer distance of wireless connection. The WNAP-7350 provides high output power with multiple adjust Tx controller, which allows CPE users to easily install and adjust the suitable value in appropriate locations. The WISP mode supported in the WNAP-7350 also enables CPE users to connect to Internet via local WISP provider conveniently.

SPECIFICATION

Product	5GHz 300Mbps 802.11a/n Wireless Outdoor Access Point
Model	WNAP-7350
Hardware Specifications	
Standard support	IEEE 802.11a/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 IEEE 802.3af Power over Ethernet / PD
Memory	32 Mbytes DDR SDRAM 8 Mbytes Flash
Interface	Wireless IEEE 802.11a/n, 2T2R LAN: 1 x 10/100Base-TX, Auto-MDI/MDIX, IEEE 802.3af PoE/PD port WAN: 1 x 10/100Base-TX, Auto-MDI/MDIX, Passive PoE/PSE port up to 7W
Antenna	N-Type Female connectors x 2
Wireless RF Specifications	
Wireless Technology	IEEE 802.11a IEEE 802.11n
Data Rate	IEEE 802.11a: 54, 48, 36, 24, 18, 12, 9 and 6Mbps IEEE 802.11n (20MHz): up to 150Mbps IEEE 802.11n (40MHz): up to 300Mbp
Media Access Control	CSMA / CA
Modulation	Transmission / Emission Type: OFDM Data modulation type: OFDM with BPSK, QPSK, 16-QAM, 64-QAM
Frequency Band	5.180GHz ~ 5.825GHz

Operating Channel				
	5.180GHz	CH36	5.580GHz	CH116
	5.200GHz	CH40	5.600GHz	CH120
	5.220GHz	CH44	5.620GHz	CH124
	5.240GHz	CH48	5.640GHz	CH128
	5.260GHz	CH52	5.660GHz	CH132
	5.280GHz	CH56	5.680GHz	CH136
	5.300GHz	CH60	5.700GHz	CH140
	5.320GHz	CH64	5.745GHz	CH149
	5.500GHz	CH100	5.765GHz	CH153
	5.520GHz	CH104	5.785GHz	CH157
	5.540GHz	CH108	5.805GHz	CH161
	5.560GHz	CH112	5.825GHz	CH165
	*The above 24 channels are defined in theory. The actual application will vary depends on the regulation in different regions and countries.			

RF Output Power	IEEE 802.11a: 27 ± 1dBm IEEE 802.11n: 24 ± 1dBm
Receiver Sensitivity	IEEE 802.11a: -91dBm IEEE 802.11n: -92dBm
Output Power Control	3~27dBm
Software Features	
LAN	Built-in DHCP server supporting static IP address distributing Supports 802.1d STP (Spanning Tree)
WAN	■ Static IP ■ PPTP ■ Dynamic IP ■ L2TP ■ PPPoE ■ IPSec
Operating Mode	■ Bridge ■ WISP ■ Gateway
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	■ AP ■ WDS PTMP ■ Client ■ WDS Repeater (AP+WDS) ■ WDS PTP
Channel Width	20MHz / 40MHz
Wireless Isolation	Enable it to isolate each connected wireless clients from communicating with each other mutually
Encryption Type	64/128-bits WEP, WPA, WPA-PSK, WPA2, WPA2-PSK, 802.1X

Wireless Security	Provides wireless LAN ACL (Access Control List) filtering
	Wireless MAC address filtering
	Supports WPS (WIFI Protected Setup)
	Enable / Disable SSID Broadcast
Multiple SSID	Up to 2
Max. Wireless Client	40
Max. WDS AP	8
Max. Wired Client	60
WMM	Supports Wi-Fi Multimedia
QoS	Supports Quality of Service for bandwidth control
NTP	Network Time Management
Management	Web UI, DHCP Client, Configuration Backup & Restore, Dynamic DNS, SNMP
Diagnostic tool	System Log, Ping Watchdog
Mechanical & Power	
IP Rate	IP67
Material	Aluminum
Dimension (W x D x H)	320 x 27.5 x 320 mm
Weight	2.4kg
Installation	Pole mounting or Wall mounting
Power Requirements	AP: IEEE 802.3af PoE / 48VDC input (PoE Injector included)
	PoE Injector: 100~240VAC
Power Consumption	7.68W
Environment & Certification	
Operation Temperature	-30~75 Degree C
Operating Humidity	10~95% non-condensing
Regulatory	CE / RoHS
Accessory	
Standard Accessories	■ 48VDC 802.3af PoE injector & Power cord x 1
	■ Mounting Kit x 1
	■ Waterproof RJ-45 Connector Kit x 2
	■ Quick Installation Guide x 1
	■ CD (User's Manual, Quick Installation Guide) x 1

ORDERING INFORMATION

| WNAP-7350 | 5GHz 300Mbps 802.11a/n Wireless Outdoor Access Point |

ACCESSORIES

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-NM-0.6	0.6 Meter N-male (male pin) to N-male (male pin) Cable
WL-LTNA	2.4/5GHz Lightning Arrester (N-male to N-female)

RELATED PoE PRODUCT

ISW-1022MPT	8-Port 10/100Mbps + 2-Port Gigabit TP/SFP Combo PoE Managed Industrial Switch with Wide Operating Temperature
ISW-514PTF	4-Port 10/100Mbps with PoE + 1-Port 100FX Industrial Ethernet Switch – Wide Temperature
ISW-804PT-M12	Industrial IP67 Rated 8-Port 10/100Mbps M12 Fast Ethernet PoE Switch with Wide Operating Temperature
IVC-2004PT	4-Port 10/100Base-TX with PoE + 1-Port BNC / RJ-11 Industrial Ethernet Extender
IPOE-162	Industrial IEEE 802.3at Gigabit High Power over Ethernet Injector (Mid-Span)
FTP-802	100Base-FX to 10/100Base-TX PoE Media Converter
SGSW-24040P	24-Port Gigabit PoE Managed Stackable Switch / 220W
POE-E101	IEEE 802.3af Power over Ethernet Extender

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