

Pioneer of IP Innovation

802.11a/n Wireless LAN Outdoor AP

WNAP-7320



PLANET
802.11a/n Outdoo













www.planet.com.tw

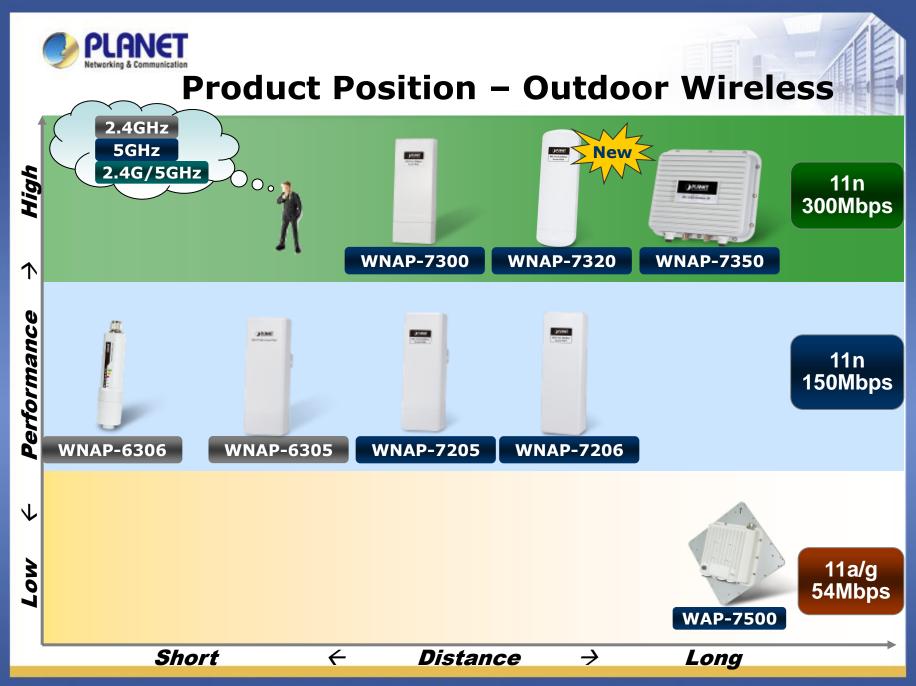
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Presentation Outline

- Product Position
- Product Overview
- Product Features
- Management Web UI
- Applications
- Product Comparison
- Appendix
 - Outdoor Antennas
 - ✓ Antenna Connection
 - Accessories







Product Overview *IP55 Protection*

UV Stabilized

H/W Design



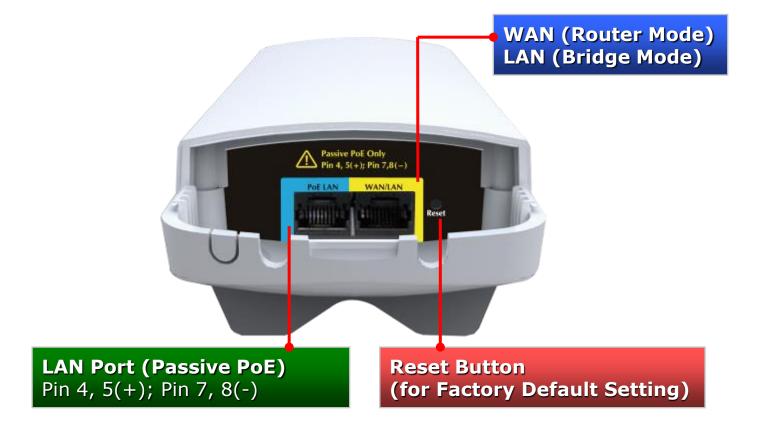






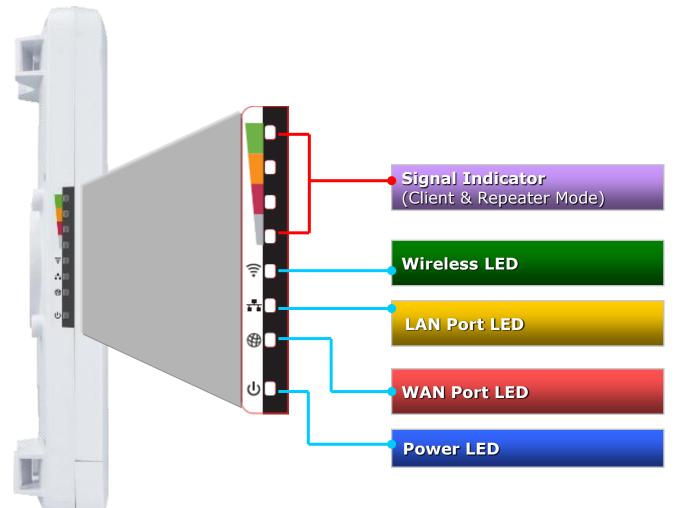


Bottom View - Port



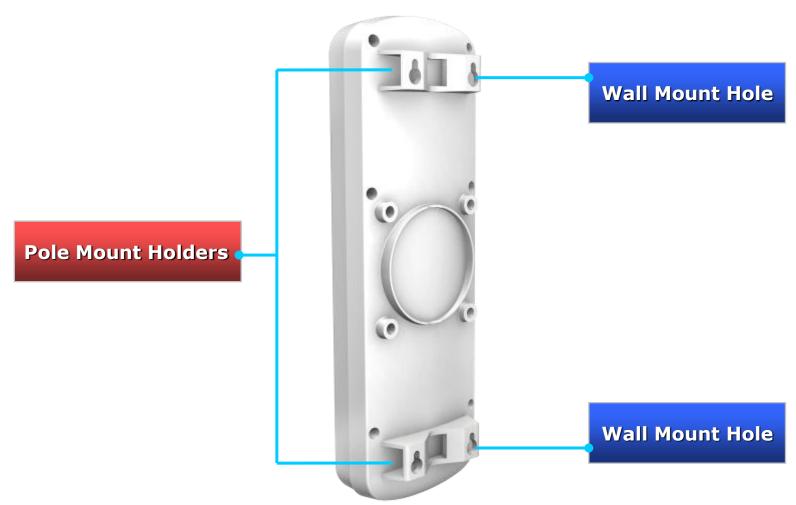


Side View - LED



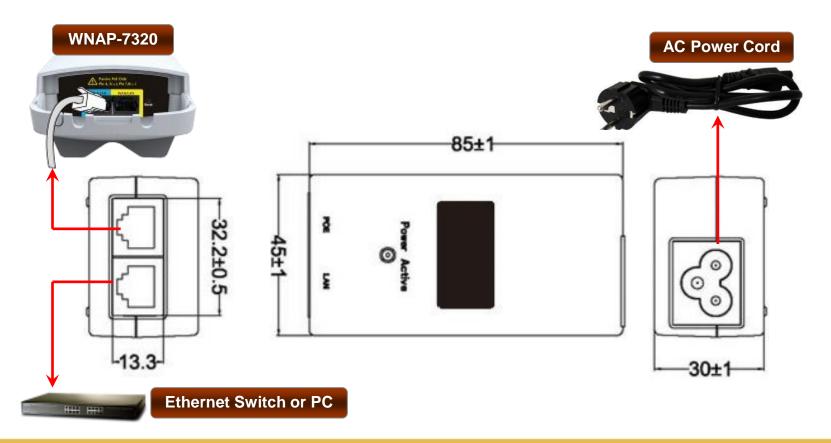


Rear View – Mounting Design





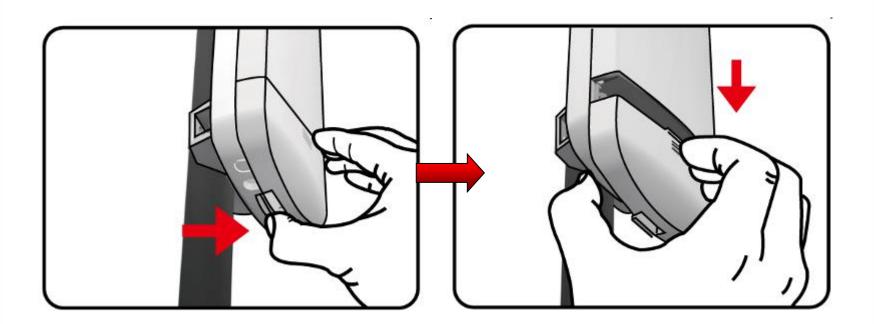
- Proprietary PoE interface
 - ✓ Offer Power Supply (24V DC, 0.5A) with PoE (Power over Ethernet) injector
 - ✓ Pin 4, 5 (+); 7, 8 (-), Up to 100 meters UTP wiring





Installation

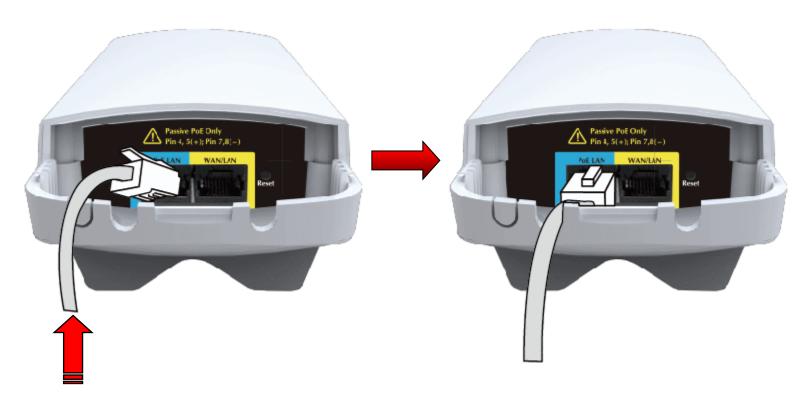
✓ STEP 1: Push the latch in the bottom of WNAP-7320 to remove the sliding





Installation

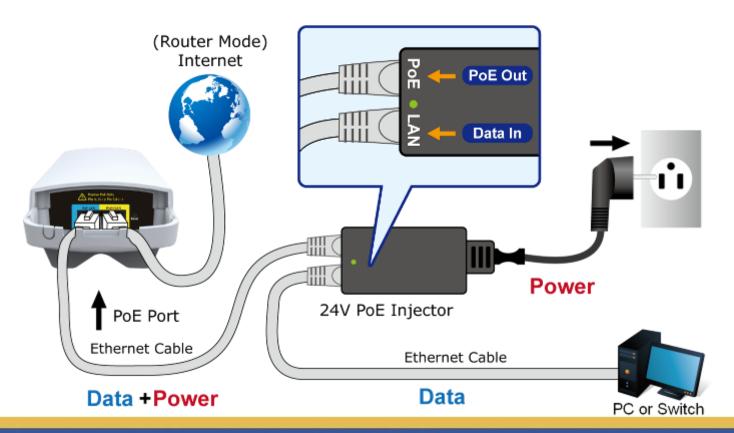
✓ STEP 2: Plug the RJ-45 Ethernet cable into the PoE LAN Port of WNAP-7320.





Installation

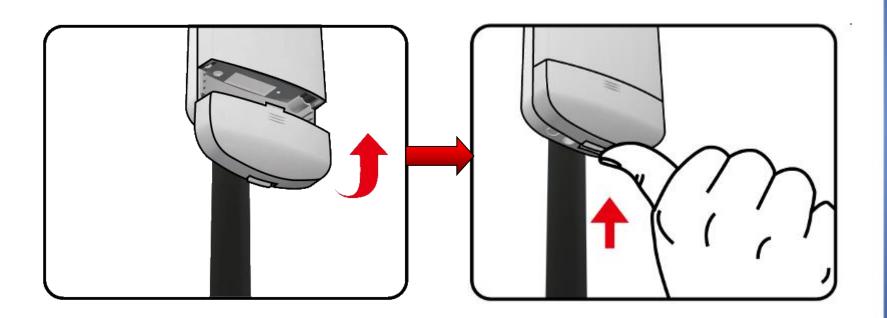
✓ STEP 3: Take out the power cord and PoE injector, plug the power cord into the DC port and plug the other side of the RJ-45 cable in the STEP 2 into the POE port of the PoE injector.





Installation

✓ STEP 4 : Slide the cover back to seal the bottom of the WNAP-7320 to finish the installation.





Installation - Pole Mounting

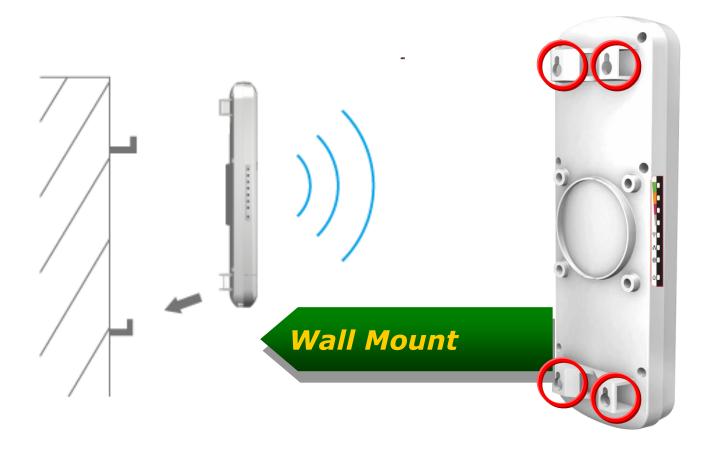








Installation - Wall Mounting





Product Features

Hardware Design

- **✓ IP55**, Outdoor UV Stabilized Enclosure
- √ -30~75 Degree C wide range of operating temperature
- **✓ Passive Power over Ethernet Design**

RF interface

- √ IEEE 802.11a/n 5GHz standards compliant
- ✓ High output power up to 500mW with multiple adjustable transmit power control
- ✓ Data rate up to 300Mbps with 802.11n mode
- ✓ Built-in 14dBi Dual Polarization Antenna



Product Features – 5GHz Advantage

5GHz Frequency Band

Up to 24 non-overlapping channels, Less interference, stable connection



^{*}The 24 channels are defined by the theory. The actual application will vary based on the regulation in different regions and countries.



Product Features - Antenna



14dBi Dual Polarization Antenna



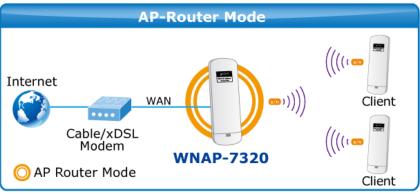
Product Features

Wireless

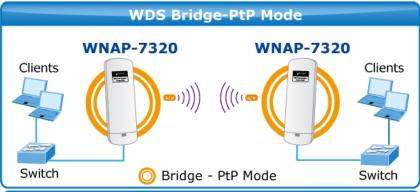
- ✓ Operation Mode
 - AP, Client CPE (WISP), WDS PtP, WDS PtMP, Repeater (AP+WDS)
- ✓ WDS up to 8 remote APs
- ✓ SSID Broadcast & Hide
- ✓ Supported Dual-SSID
- **✓** Wireless Security
 - 64/128-bit WEP, WPA, WPA2, WPA-PSK(TKIP), WPA2-PSK(AES), and 802.1x Authentication
- ✓ Max. Wireless Client up to 40 Stations
- ✓ Output Power Control (Range 3~27dBm)
- Distance Adjustment helps deployment

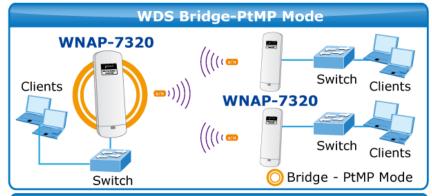


Product Features - Operation Mode

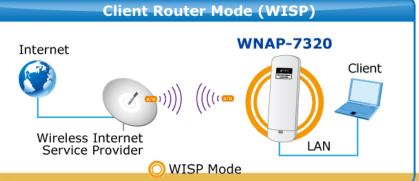














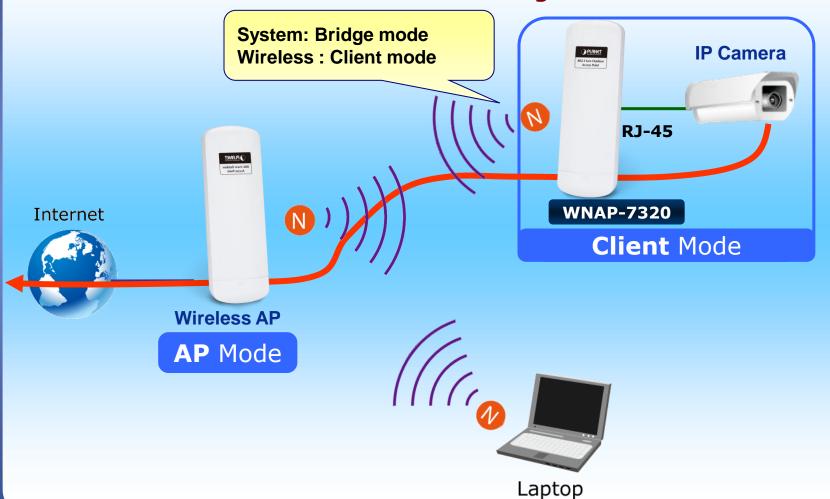
Access Point

Acts as a central hub for wired / wireless LAN and connect to Internet





- Client Bridge
 - ✓ Acts as a wireless client connecting with the remote AP





- WDS Mode (Bridge)
 - ✓ Two APs in two remote locations connect to each other wirelessly





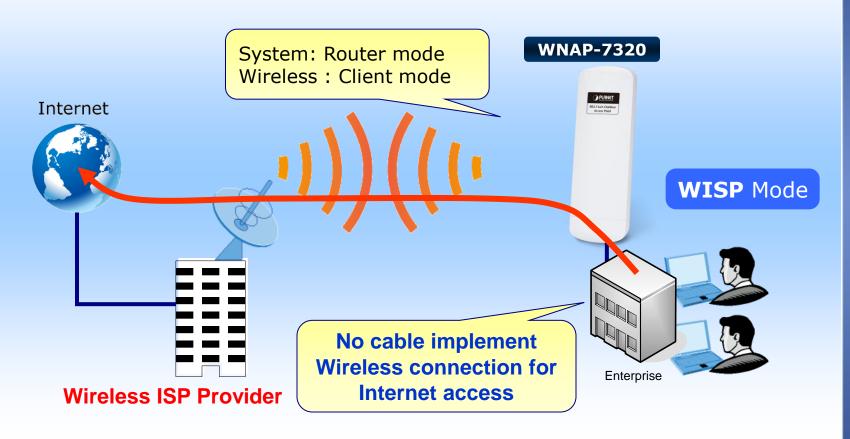


- WDS + AP Mode (Repeater)
 - ✓ Bridge two APs and provides access for wireless clients at the same time





- WISP (Client Router)
 - ✓ Acts as a WISP client router and the WISP subscriber can easily share the WISP connection with only a simple switch.





Product Features

Management

- **✓ WAN Connection Types for WISP:**
 - Static IP
 - DHCP (Dynamic IP)
 - PPPoE
 - PPTP
 - L2TP
 - IPSec
- ✓ Support MAC/ IP/ Port Filtering
- ✓ Support DHCP Server, UPnP
- ✓ User Friendly Web-based UI, Easy Setup
- ✓ System Status includes DHCP Client, Station List, SYS Log
- ✓ Support Planet DDNS/Easy DDNS, SNMP

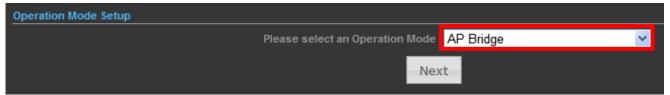


Web UI - Easy Setup

STEP.1 Select Easy Setup



Select Operation Mode



STEP.3 Configure Wireless Parameters

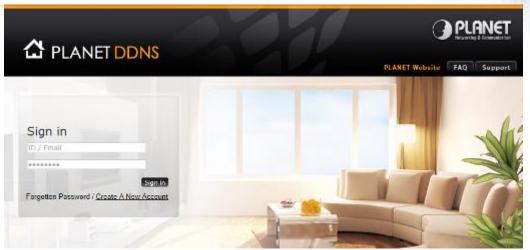




Web UI - Planet DDNS (Router Mode)

STEP.1

Go to http://www.planetddns.com/ to register a Planet DDNS account.



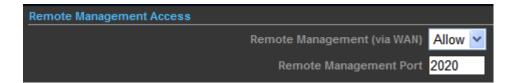
STEP.2

Configure the DDNS account in WNAP-7320



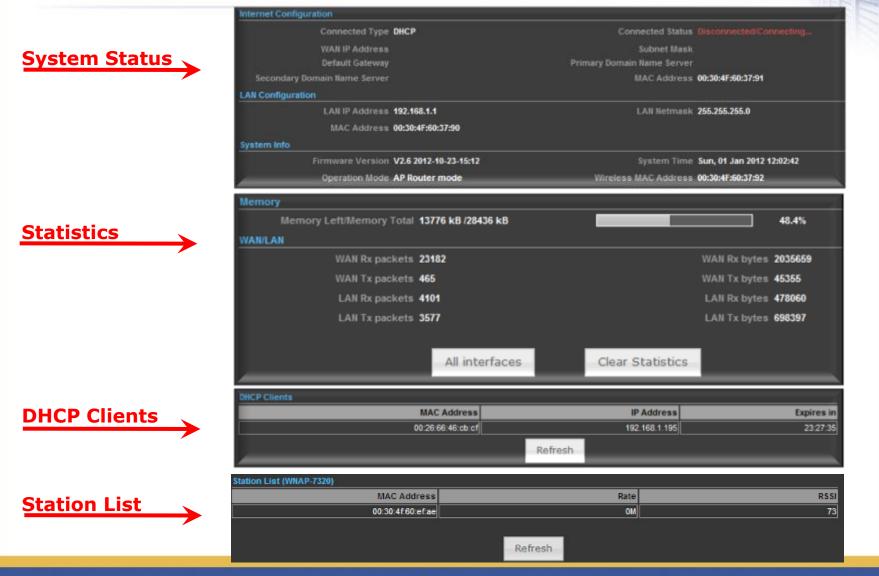


Allow Remote Access via WAN





Web UI - Status





Application - Typical





Comparison – Planet 5GHz

Model	WNAP-7320	WNAP-7205	WNAP-7200
Features	PORT TO STATE OF THE PORT OF T		COCONST S S
Flash/RAM	8MB/32MB	4MB/32MB	2MB/32MB
Ethernet Port	2*10/100Mbps (LAN/WAN)	2*10/100Mbps (LAN/WAN)	1*10/100Mbps
Power	Passive PoE / 24VDC input	Passive PoE / 12VDC input	Passive PoE / 12VDC input
Wireless Antenna	Internal: 14dBi Dual-Polarization	Internal: 16dBi External: RP-SMA Connector *1	Internal: 18dBi
Operating Temp.	-30~75°C	-20~70°C	0~55°C
Wireless Speed	300Mbps	150Mbps	150Mbps
Output Power	27dBm(500mW)	25dBm(300mW)	23dBm(200mW)
IP Code	IP55 UV Stabilized Enclosure	IP55	IP65
SNMP	Yes	No	No
Planet DDNS	Yes, Easy DDNS included	Yes	Yes
WDS Peers	Up to 8	Up to 4	Up to 4
Operating Mode	AP, Client, WDS, Repeater, WISP	AP, Client, WDS, Repeater, Universal Repeater, WISP	AP, Client, WDS, Repeater, WISP



Appendix

Target Market

- **✓** Telecom to Business
- ✓ Telecom to Residential
- Building to Building
- ✓ Public Area Access
- ✓ Hotel/Resort/Campus
- √ Small Wireless ISP

Benefit

- Maximum Bandwidth
- ✓ Flexible in wireless coverage
- ✓ Saving wiring cost
- ✓ Suitable for various application

Target Customer

- ✓ Who buy the products
 - WNAP-7200
 - WNAP-7205
 - WNAP-7300
 - WAP-7500
 - WAP-8000
 - MAP-2000 / 3000 Series
- ✓ Who ever ask about
 - WISP
 - Outdoor Access Point
 - Long Distance, High Power AP



Appendix

- Related Products & Accessories
 - ✓ CB-STP-25 (25M STP Cat5 Cable)
 - **✓ ELA-100 (Ethernet Lightning Arrest Box)**





ACTIVATING IP POWER