



802.11n Wireless Ceiling Mount Access Point / Range Extender

WNAP-C3220















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Presentation Outline

- Product Overview
- Product Benefits
- Product Features
- Applications
- Management Web UI
- Comparison Internal
- Comparison External



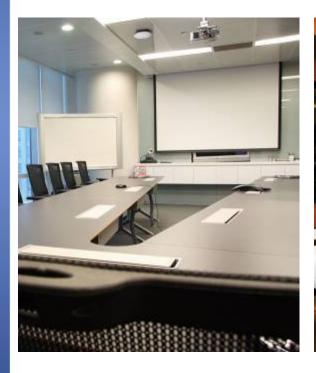




Environments of Ceiling Mount Access Point

Office Meeting Room Restaurant School

Hotel Home









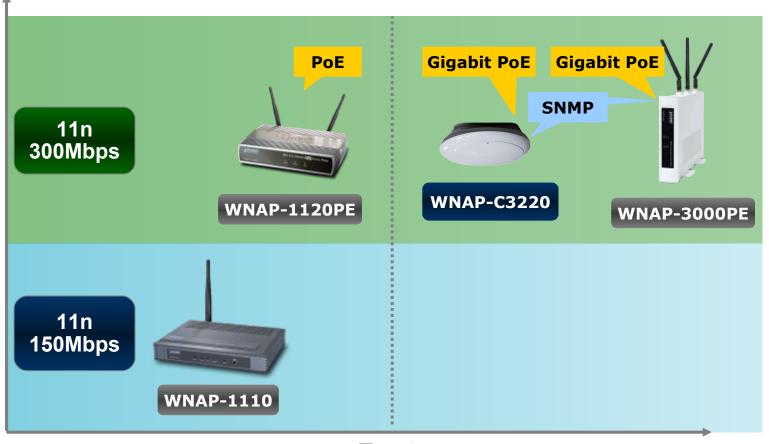
High

Performance

Low

Product Position

 PLANET Indoor Wireless Access Point / Range Extender Product Map



Features



Front Panel

✓ Dimensions: 160 x 102 x 30 mm (W x D x H)

Weight: 730g





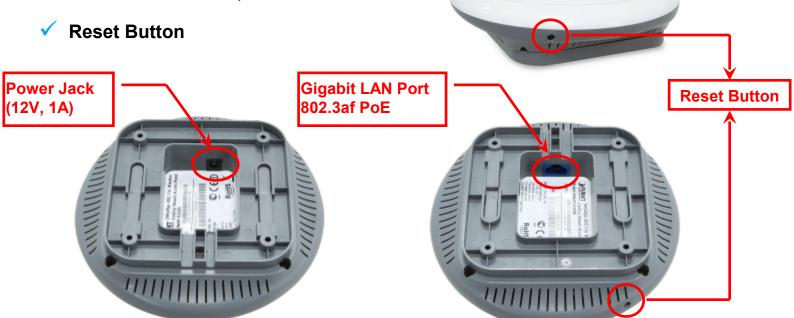
Rear Panel

✓ Power: 12VDC, 1A

✓ LAN Port:

• 10/100/1000Mbps

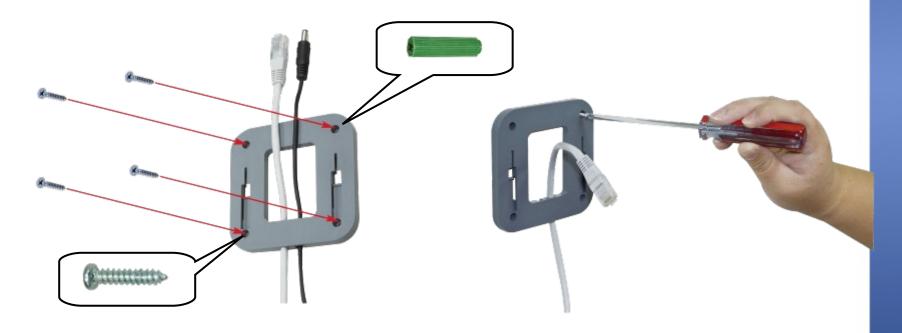
• 802.3af PoE Compliant





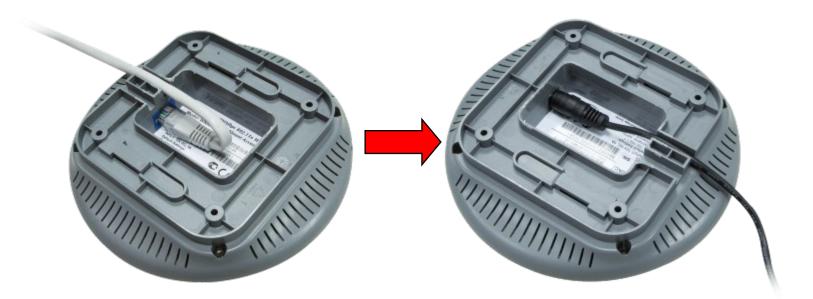
Installation - 1

- ✓ Attach the bracket to the wall or ceiling
- ✓ Mark each point in the bracket for the screws.
- ✓ Remove the bracket to drill the points and insert the plastic wall-mounts.
- ✓ Use screws to lock the bracket by a screw driver.



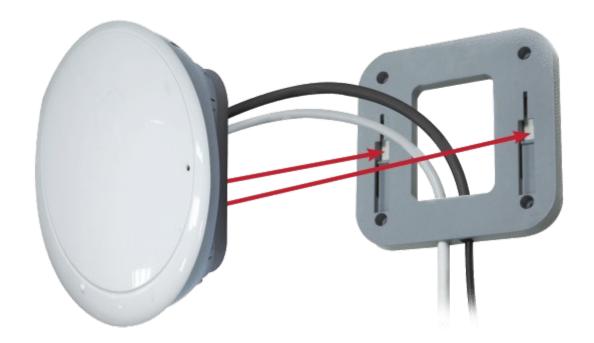


- Installation 2
 - ✓ Plug the RJ-45 Ethernet cable into the WNAP-C3220.
 - If the RJ-45 cable is connected to a **802.3af PoE switch**, then you don't have to plug the power adapter in the next step.
 - ✓ Plug the power adapter into the WNAP-C3220.





- Installation 3
 - **✓** Attach the WNAP-C3220 to the mounting bracket.





- Installation 4
 - **✓** Successful installation.





Product Benefits

11n Highest-Speed Wireless Connectivity

✓ With wireless speeds of up to 300Mbps, the PLANET 802.11n Wireless Gigabit Ceiling Mount AP built-in with 2T2R MIMO intelligent antennas offering high performance and superior coverage range.

Gigabit Ethernet Connectivity

✓ Built-in 10/100/1000Mbps Gigabit Ethernet connection ports support cable length dynamically and link down per port power saving.

Flexible Deployment with PoE Feature

- ✓ Compliant with IEEE 802.3af Power over Ethernet standard.
- Broad compatibility with power sourcing equipment (PSE).

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Product Benefits

Multiple Operating Modes

- Supports multiple wireless connectivity:
 - AP (Access Point)
 - WDS Repeater
 - WDS Point-to-Point (PtP)
 - WDS Point-to-Multipoint (PtMP)

Unique & Ceiling Mountable Design

✓ Featuring attractive flying saucer appearance and ceiling mountable design, the WNAP-C3220 can be firmly adsorbed on the ceiling or the wall, which is easy and convenient in client-side installation.

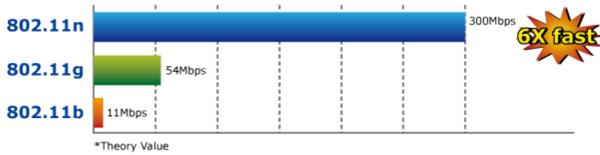
Easy Installation & Management

- ✓ With user-friendly Web UI and step by step wizard, it is easy for users to install the device, even for a user who never experience setting up a wireless network.
- ✓ Its SNMP feature allows the system administrator to remote monitor and control the network devices more efficiently.

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- Industrial Compliant Wireless LAN & LAN
 - ✓ Compliant with IEEE 802.11n wireless technology
 - ✓ Data rate up to 300Mbps
 - ✓ Backward compatible with 802.11b/g standard
 - ✓ LAN: 10/100/1000Mbps, Auto MDI/MDI-X supported







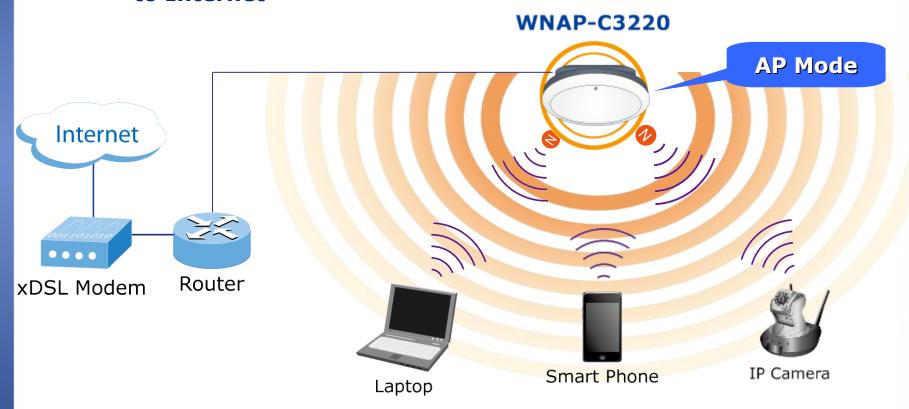
- Secure Wireless Network Connection
 - ✓ Advanced security
 - 64/128-bit WEP
 - WPA/WPA2
 - WPA-PSK/WPA2-PSK(TKIP/AES encryption)
 - 802.1x
 - **✓** MAC Filtering up to **50** entries
- Connection capacity management
 - ✓ Max. Wired Client: Unlimited
 - ✓ Max. Wireless Client: 20 (Default 10)
 - ✓ Max. WDS AP: 4



- Multiple Wireless Network Technologies for Greater Access
 - ✓ Multiple Operation Modes:
 - **AP**
 - WDS Point-to-Point (PtP)
 - WDS Point-to-Multipoint (PtMP)
 - WDS Repeater (WDS+AP)
- 2T2R MIMO Antenna solution
 - ✓ Provides better RF coverage
 - ✓ Up to 300Mpbs high speed transmission.



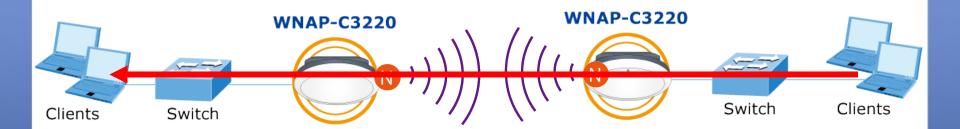
- Wireless Access Point
 - ✓ Acts as a central hub for wired / wireless LAN and connect to Internet





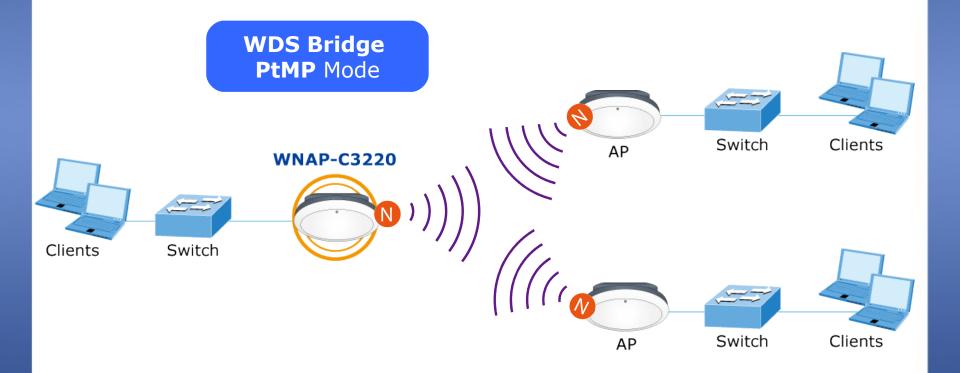
- WDS Bridge Point to Point Mode
 - ✓ Two APs in two remote locations connect to each other wirelessly

WDS Bridge PtP Mode WDS Bridge PtP Mode



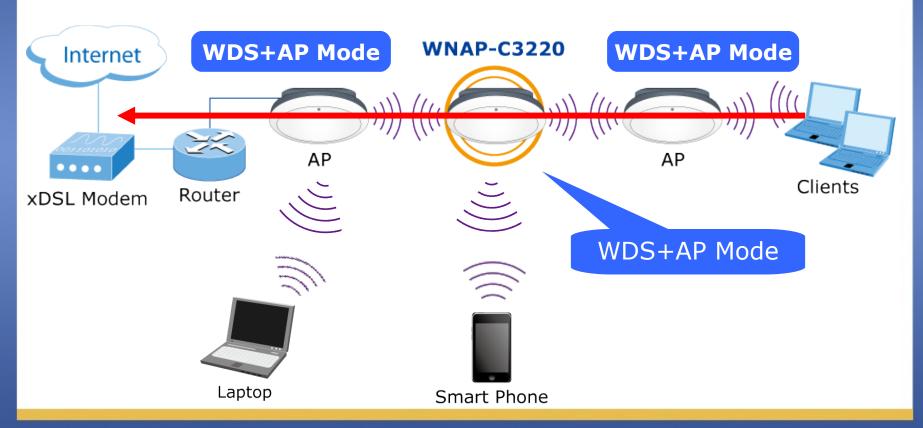


- WDS Bridge Point to Multiple Point Mode
 - ✓ Wirelessly connects multiple locations together allowing them to share the same network resources.





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

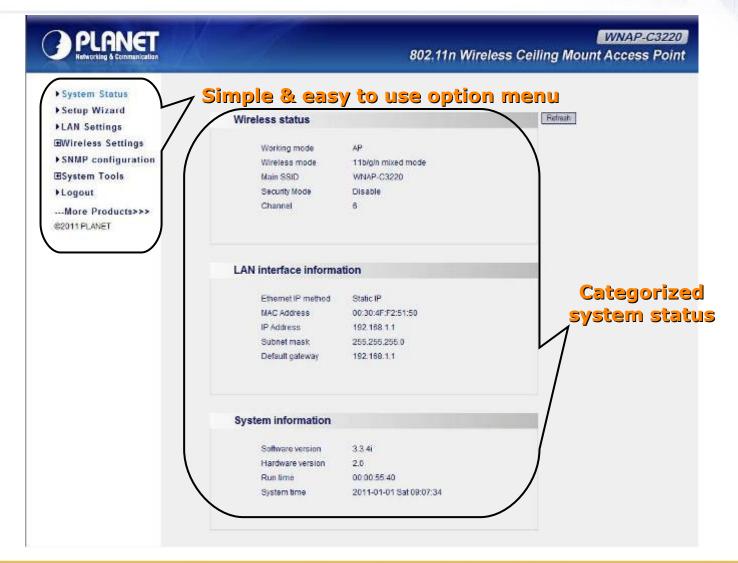




- Easy Installation & Management
 - √ Step by Step configuration with Intelligent Setup Wizard
 - ✓ User-friendly Web and SNMP-Based management interface
 - ✓ Firmware Upgrade & Configuration Backup/Restore
 - ✓ System status monitoring including Associated Client List,
 System Log

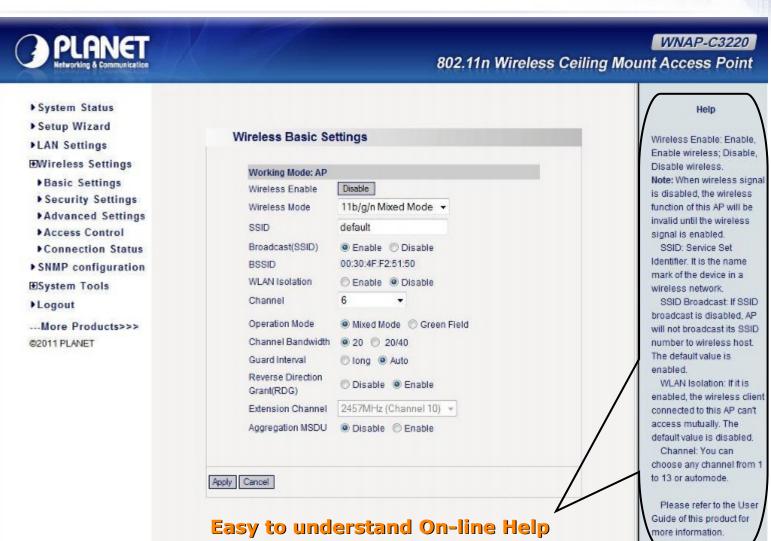


Web UI - Main



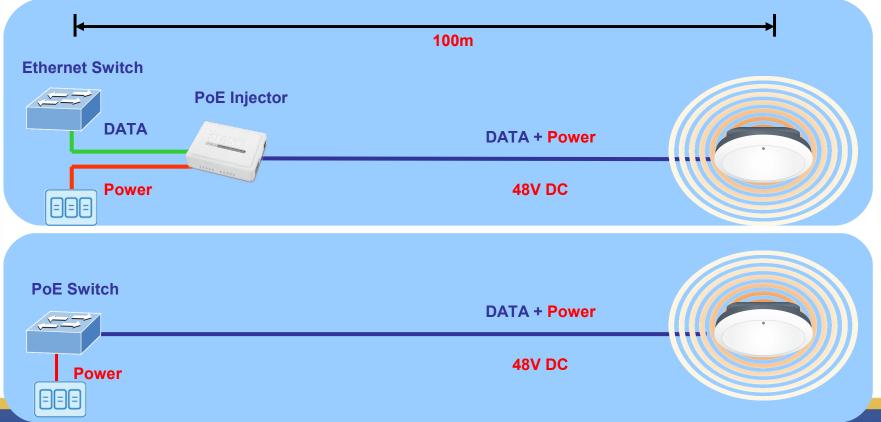


Web UI - Wireless





- Flexible Deployment with PoE Feature
 - ✓ Compliant with IEEE 802.3af Power over Ethernet standard.
 - ✓ Broad compatibility with power sourcing equipment (PSE).



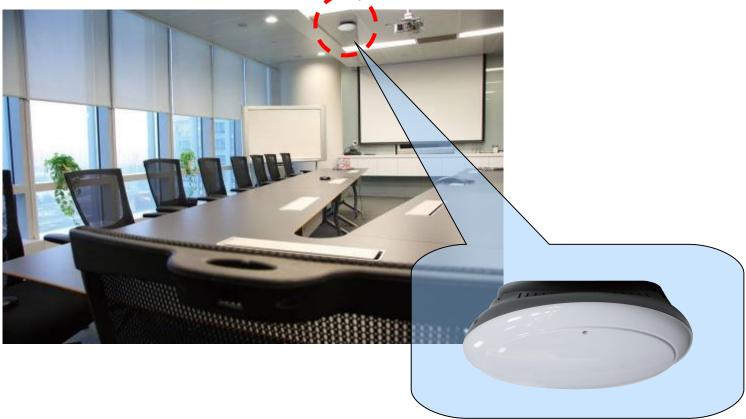


- Multiple Mounting Options
 - ✓ Ceiling or Wall mount flexible choice, not occupied space and can reduce the dead-spot for indoor use.
 - ✓ Streamlined body without protruding antennas gives effects
 of embellishment on the surroundings.



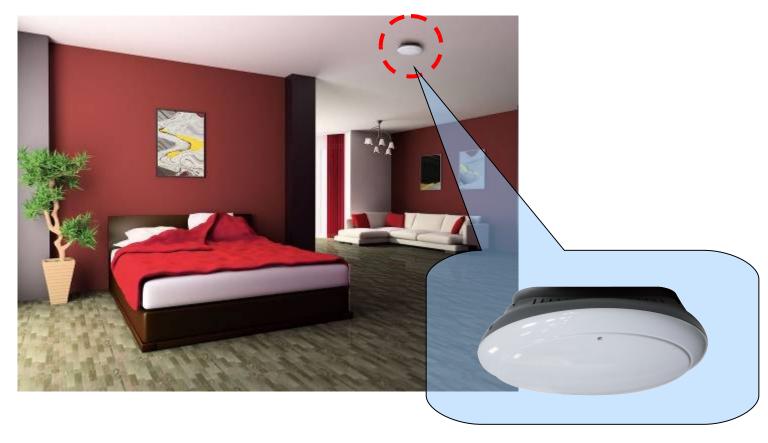
Ceiling Mount to any place







- Ceiling Mount to any place
 - **✓** Hotel Room





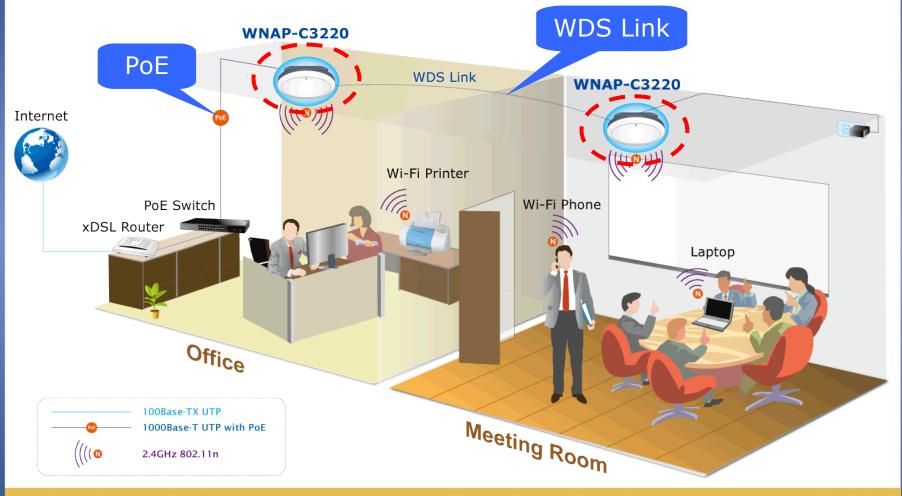
- Ceiling Mount to any place
 - **✓** Restaurant





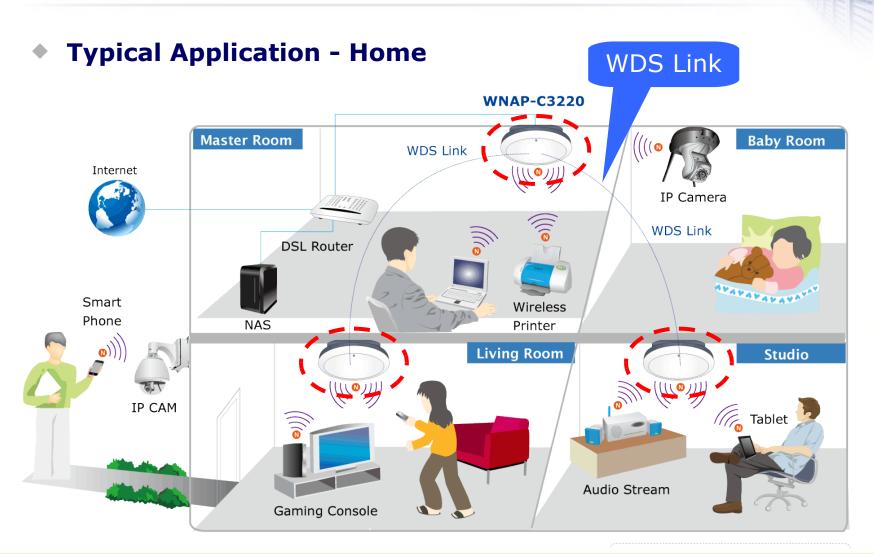
Applications

Typical Application - Office



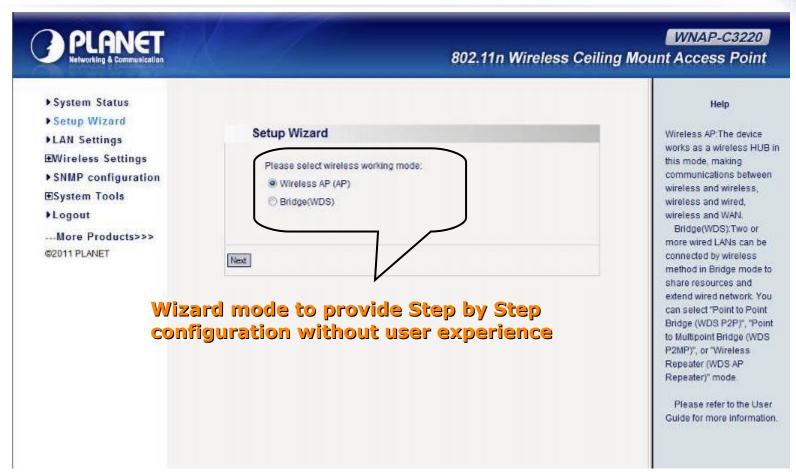


Applications





Web UI - Setup Wizard





Comparison - Internal

	WNAP-C3220	WNAP-3000PE	WNAP-1110	WNAP-1120PE
Model Feature				
Ethernet Port	1 x 10/100/1000Mbps	1 x 10/100/1000Mbps	1 x 10/100Mbps	1 x 10/100Mbps
РоЕ	802.3af PoE	802.3af PoE	Passive	802.3af PoE
Wireless Interface	802.11b/g/n, 2T2R	802.11b/g/n, 3T3R	802.11b/g/n, 1T1R	802.11b/g/n, 2T2R
Wireless Antenna	Built-in 2dBi Printed Antenna	2dBi detachable 3 x RP-SMA	2dBi detachable 3 x RP-SMA	3dBi detachable 2 x RP-SMA
Wireless speed	300Mbps	300Mbps	150Mbps	300Mbps
Button	Reset	Reset	WPS/Reset	WPS/Reset
Wireless Encryption	64/128-bit WEP WPA1/2, WPA-PSK1/2, 802.1x	64/128/152-bit WEP WPA1/2, WPA-PSK1/2, 802.1x	64/128/152-bit WEP, WPA1/2, WPA-PSK1/2, 802.1x	64/128-bit WEP, WPA1/2, WPA-PSK1/2, 802.1x
Operation mode	AP, WDS PtP, WDS PtMP, WDS Repeater	AP, WDS PtP, WDS PtMP, WDS Repeater	AP, Client, WDS PtP, WDS PtMP, WDS Repeater, Universal Repeater	AP, Client, WDS PtP, WDS PtMP, WDS Repeater, Universal Repeater
WDS Max.	4	8	4	4
MAC Address Filtering	Yes, up to 50	Yes	Yes, up to 20	Yes
WMM	Yes	Yes	Yes	Yes
SNMP	SNMP v1 / v2c	SNMP v1 / v2c / v3	Yes	-
Setup Wizard	Yes	-	-	-
System Log	Yes	Yes, and E-mail Alert	Yes	Yes



Comparison - External

Model	PLANET/WNAP-C3220	EnGenius /EAP-3660	D-Link/DWL-3140
Features		Criticalia	
Ethernet Port	10/100/1000Mbps	10/100Mbps	10/100Mbps
Wireless Interface	802.11b/g/n	802.11b/g	802.11b/g
Wireless Antenna	Built-in 2dBi	Built-in 4dBi	Built-in antenna
Wireless Speed	300Mbps	54Mbps	108Mpbs
H/W Button	Reset	Reset	Reset
РоЕ	802.3af	802.3af	802.3af
Wireless Encryption	64/128-bit WEP, WPA1/2, WPA-PSK1/2, 802.1x	64/128/152-bit WEP, WPA1/2, WPA-PSK1/2, 802.1x	64/128/152-bit WEP, WPA1/2, WPA-PSK1/2, 802.1x
SSID Broadcast	Yes	Yes	Yes
Operation Mode	AP, WDS PtP, WDS PtMP, WDS Repeater	AP, Client, WDS PtP, WDS PtMP, Universal Repeater	АР
wмм	Yes	Yes	Yes
Setup Wizard	Yes	-	-
SNMP	Yes	Yes	Yes
System Log	Yes	Yes	Yes



Appendix - Sales Target

Target Markets

- **✓** Enterprise / SMB Office
- ✓ Hotel / Resort
- **✓** Restaurant
- ✓ School
- **✓** Airport
- ✓ Custom Home
- ✓ Shopping Mall

Target Customers

- ✓ Who buys 11n Wireless Access Point
 - WNAP-1110, WNAP-1120PE, WNAP-3000PE



Appendix

Related PoE Injector / PoE Switch Products

Model Name	Description
POE-152	IEEE 802.3af Power Over Ethernet Injector (10/100/1000Mbps)
GSD-802PS	8-Port 10/100/1000Mbps Web Smart PoE Switch
SGSW-24040P	24-Port Gigabit PoE Managed Stackable Switch / 220W
POE-1200G	12-Port Gigabit IEEE 802.3af Power over Ethernet Injector Hub
POE-2400G	24-Port Gigabit IEEE 802.3af Power over Ethernet Injector Hub

Related Wireless Client Products

Model Name	Description
WNL-U554	802.11n Wireless USB 2.0 Adapter
WNL-U554A	802.11n Wireless USB 2.0 Adapter External 2dBi Antenna
WNL-U554M	802.11n Micro Wireless USB 2.0 Adapter
WNL-9331	802.11n Wireless PCI Adapter
WNL-9501	802.11n Wireless PCI Express Adapter

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