

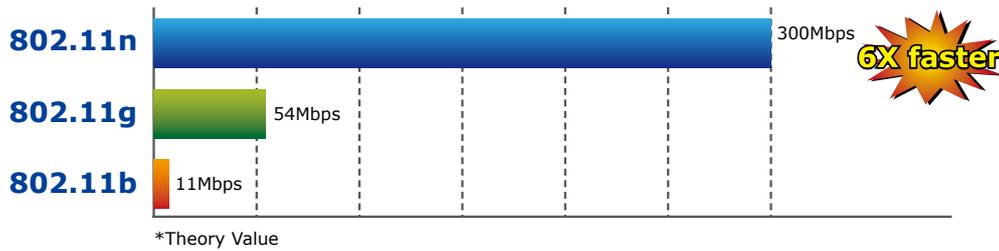
# 300Mbps 802.11n Wireless Ceiling Mount Range Extender



The PLANET WNAP-C3220 is a stylish PoE Wireless Access Point featuring the latest wireless technology and unique ceiling-mount artistic design. It offers **300Mbps 802.11n wireless speed**, **multiple operation modes**, **Gigabit LAN** connectivity and **802.3af Power over Ethernet** features to increase client mobility and speed within a network. **Sleek styling housing** and **ceiling mountable** design makes the WNAP-C3220 blends unobtrusively into any ceiling or wall for various environments. This perfect product also creates a secure, cost-effective and highly scalable wireless LAN infrastructure. It is ideal for enterprises, hotels, hospitals and home users to extend wireless network coverage.

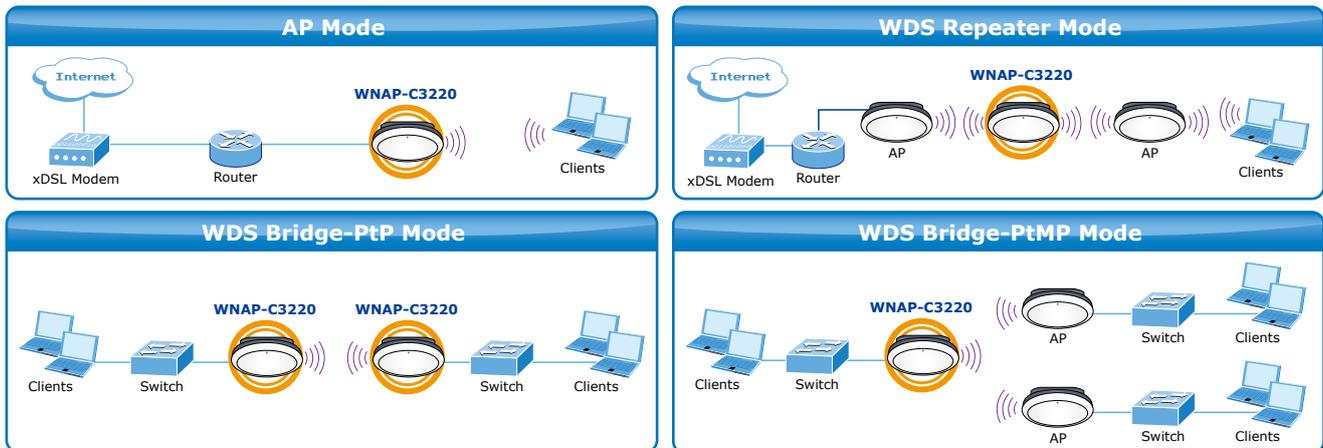
## Ultra High Speed 802.11n Wireless

The WNAP-C3220 features latest IEEE 802.11n radio with 2T2R MIMO antenna technology to provide improved wireless speed and coverage with up to 300Mbps upload and download data rate. The incredible wireless speed makes it ideal for handling multiple HD movies stream, high resolution on-line game, stereo music, VoIP and data streams at the same time stably and smoothly. It is also backward compliant with 802.11g and 802.11b standards; thus it is no need to change the existing network for convenient maintenance. Just connect to the WNAP-C3220, you can immediately enjoy the high-speed wireless sharing.



## Multiple Operating Modes

The WNAP-C3220 supports multiple wireless communication connectivity: wireless **AP**, wireless **Repeater**, **WDS Point-to-Point (PtP)** and **Point-to-Multipoint (PtMP)**, allowing various applications that give users more comprehensive experience. It also helps users to easily build wireless network and extend the wireless range of existed wireless network.



### Advanced Wireless Security

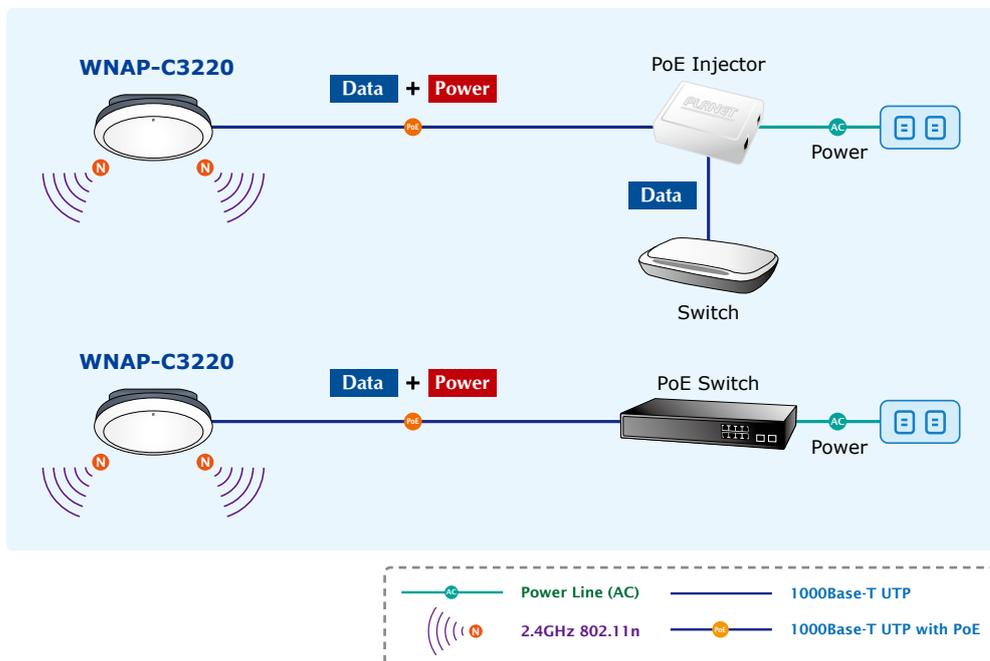
In aspect of security, besides 64/128-bit WEP encryption, the WNAP-C3220 integrates WPA / WPA2, WPA-PSK / WPA2-PSK and 802.1x authority to secure and protect your wireless LAN. It provides the wireless MAC filtering and SSID broadcast control to consolidate the wireless network security and prevent unauthorized wireless connection.

### 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. Its streamlined body without protruding antennas also gives effects of embellishment on the surroundings.

### Flexible Deployment with PoE Feature

Compliant with IEEE 802.3af Power over Ethernet standard, the WNAP-C3220 can be powered and networked by 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. The wireless AP deployment becomes more flexible and worries free from the power outlet locations.



### Easy Installation & Management

With user-friendly Web UI and step by step wizard of the WNAP-C3220, 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.

## KEY FEATURES

### COMPLIANCE WITH INDUSTRIAL STANDARD

- Compliant with IEEE 802.11n wireless technology capable of up to 300Mbps data rate
- Backward compatible with 802.11b/g standard
- Gigabit Auto-Negotiation LAN port, compliant with IEEE 802.3/802.3u standards
- Supports 802.3af standard-based PoE or local AC power

### SECURE NETWORK CONNECTION

- Advanced security: 64/128-bit WEP, WPA/WPA2 and WPA-PSK / WPA2-PSK (TKIP/AES encryption), 802.1x
- Supports MAC Address Filtering Access Control to limit the connected wireless clients

### MULTIPLE OPERATING MODES, MULTIPLE MOUNTING OPTIONS

- Multiple operating modes including AP, Repeater, WDS Point to Point, WDS Point to Multiple Point
- Sleek Stylish and Ceiling Mountable Design

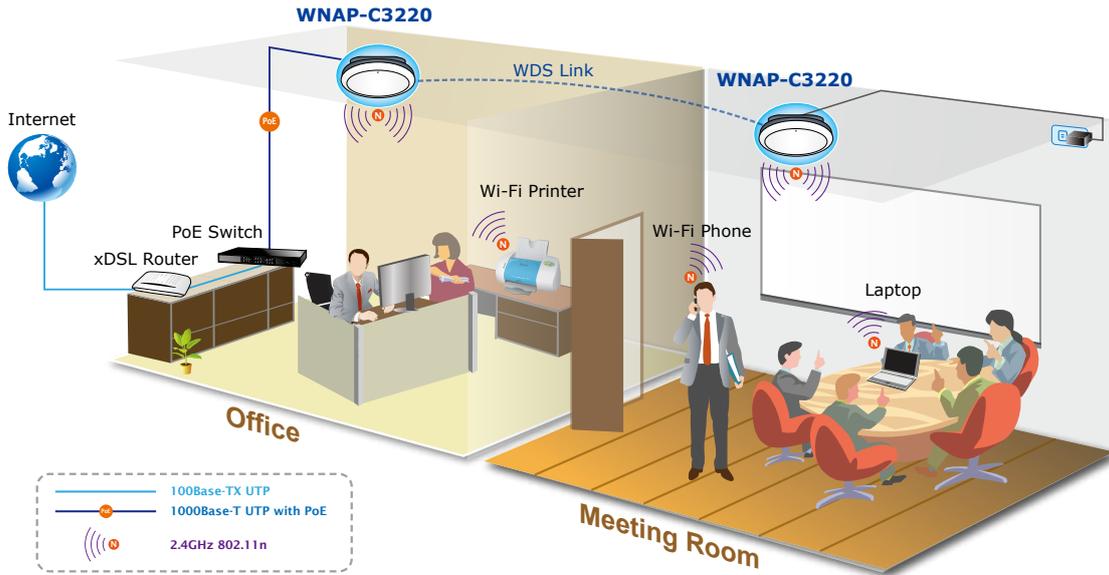
### EASY INSTALLATION & MANAGEMENT

- Step by Step configuration with Intelligent Setup Wizard
- User-friendly Web and SNMP-Based management interface
- System status monitoring including Associated Client List, System Log

**APPLICATIONS**

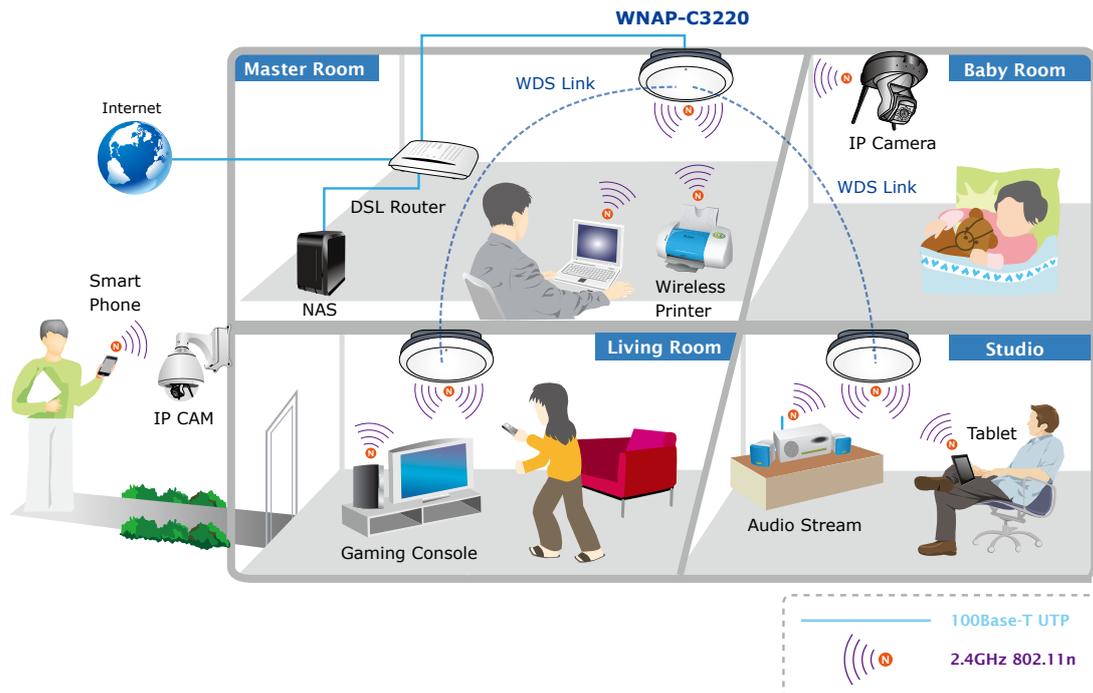
*High Speed and Secure Wireless LAN Connection*

The WNAP-C3220 is an ideal solution to provide 300Mbps high speed wireless networking to all residential and office users. Locate the WNAP-C3220 at the central point in an office or home, and connect it to an xDSL / cable modem, then the WNAP-C3220 provides high Internet access capability for the office or home wireless networking. Furthermore, the WPA-PSK / WPA2-AES mechanism of the WNAP-C3220 can effectively prevent the information from eavesdropping by unauthorized users. For efficient enterprise applications, multiple WNAP-C3220 PoE AP can be powered directly from one SGSW-24040P, 24-Port Gigabit PoE Switch, and performed advanced PoE management features, such as PoE power on/off schedule, usage monitoring, SNMP trap and email alarm.



*Home Wireless Range Extender*

The WNAP-C3220 is characterized of ceiling mounting design and advanced MIMO technology which reduces the effect of dead spot, so that it can get better coverage of existed wireless network. The WDS and repeater modes by the WNAP-C3220 minimize installation and cabling cost.



**SPECIFICATION**

Product	300Mbps 802.11n Wireless Ceiling Mount Access Point
Model	WNAP-C3220
<b>Hardware Specification</b>	
Standard support	IEEE 802.11b/g IEEE 802.11n IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T IEEE 802.3x Flow Control IEEE 802.3af Power over Ethernet
PoE	802.3af PoE
Interface	Wireless IEEE 802.11b/g/n LAN: 1x 10/100/1000Base-T, Auto-MDI/MDIX, 802.3af PoE compliant
Antenna	Built-in 2T2R, 2dbi Printed Antenna
LED	Wireless / Power LED
Button	Reset
Power Requirements	Power Supply: DC 12V, 1A Power over Ethernet: IEEE 802.3af PoE, DC 48V, 0.35A
Power Consumption	≤ 6W
<b>Wireless Interface Specification</b>	
Frequency Band	2.4~2.4835GHz
Modulation	Transmission / Emission Type: DSSS / OFDM Data modulation type: OFDM: BPSK, QPSK, 16-QAM, 64-QAM, DBPSK, DQPSK, CCK
Opt. Channel	America / FCC: 2.412~2.462GHz (1~11 Channels) Europe / ETSI: 2.412~2.472GHz (1~13 Channels) Japan / TELEC: 2.412~2.484GHz (1~14 Channels)
RF Output Power	20dBm (Max.)
Receiver Sensitivity	IEEE 802.11b: -92dBm @ 1Mbps; -85dBm @ 11Mbps, PER < 8% IEEE 802.11g: -88dBm @ 6Mbps; -73dBm @ 54Mbps, PER <10% IEEE 802.11n: -90dBm @ MCS8; -70dBm @ MCS15, PER <10%
TX Power	User defined (Range 1~100, default 100)
Data Rate	IEEE 802.11b: 1/ 2/ 5.5/ 11Mbps IEEE 802.11g: 6/ 9/ 12/ 18/ 24/ 36/ 48/ 54Mbps IEEE 802.11n: 300 Mbps in 40MHz mode / 150Mbps in 20MHz mode
<b>Wireless Management Features</b>	
Operating Mode	<ul style="list-style-type: none"> <li>■ AP</li> <li>■ Repeater</li> <li>■ WDS PtP</li> <li>■ WDS PtMP</li> </ul>
Encryption Security	64/128-bits WEP WPA, WPA-PSK WPA2, WPA2-PSK 802.1X
Wireless Isolation	Enable it to isolate each connected wireless clients but not let them access to each other mutually
Wireless Security	Wireless MAC address filtering (up to 50 entries) SSID broadcast and Hide
Wireless Client Max.	20 (default 10)
WMM	Wi-Fi Multimedia for better data transmission of Video or on-line demand
BG Protection Mode	A protection mechanism prevents collisions among 802.11b/g modes
APSD	For auto power-saved service
Max. WDS AP	4
Max. Wired Client	Unlimited
<b>Software</b>	
LAN	Static IP, Dynamic IP
Management	Web UI, SNMP
SNMP	v1/v2c; MIB support: MIB I, MIB II (RFC-1213)
Diagnostic tool	System Log
<b>Wireless interface Specification</b>	
Operation	Temperature: 0 ~ 40 Degree C, Humidity: 10 ~ 90% non-condensing
Storage	Temperature: -40 ~ 70 Degree C, Humidity: 5 ~ 90% non-condensing
Regulatory	CE, RoHS

**ORDERING INFORMATION**

<b>WNAP-C3220</b>	300Mbps 802.11n Wireless Ceiling Mount Range Extender
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**RELATED PRODUCTS**

<b>POE-152</b>	IEEE 802.3af Power Over Ethernet Injector (10/100/1000Mbps)
<b>GSD-802PS</b>	8-Port 10/100/1000Mbps Web Smart PoE Switch
<b>SGSW-24040P</b>	24-Port Gigabit PoE Managed Stackable Switch / 220W
<b>POE-1200G</b>	12-Port Gigabit IEEE 802.3af Power over Ethernet Injector Hub
<b>POE-2400G</b>	24-Port Gigabit IEEE 802.3af Power over Ethernet Injector Hub
<b>WNL-U554</b>	802.11n Wireless USB 2.0 Adapter
<b>WNL-U554A</b>	802.11n Wireless USB 2.0 Adapter External 2dBi Antenna
<b>WNL-U554M</b>	802.11n Micro Wireless USB 2.0 Adapter
<b>WNL-9331</b>	802.11n Wireless PCI Adapter
<b>WNL-9501</b>	802.11n Wireless PCI Express Adapter

\* For best performance and wireless connection, sincerely advice to match the above related products.