

1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point



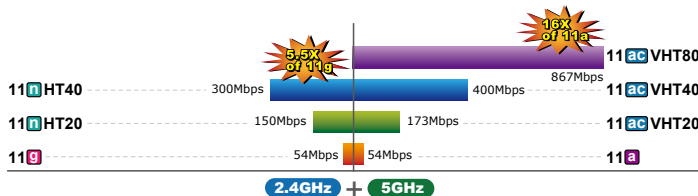
Ultra-high-speed, Enterprise Wireless LAN Solution

To meet enterprise demand for wireless communication, PLANET WDAP-C7200E 1200Mbps Dual Band 802.11ac Wireless AP supports central management through PLANET AP controllers. With IEEE 802.11ac 2T2R dual-band technology, the WDAP-C7200E provides a maximum wireless speed of 867Mbps at 5GHz and 300Mbps at 2.4GHz.



Powerful Dual-band WLAN Solution

PLANET WDAP-C7200E, adopting the IEEE 802.11ac standard, provides a high-speed transmission of power and data, meaning two remote nodes in the **5GHz** frequency band can be bridged. The **2.4GHz** wireless connection can also be used simultaneously. Furthermore, the WDAP-C7200E adopts the high-class Qualcomm Atheros SoC (System-on-a-Chip), which provides higher stability to meet the stringent requirements of the solution.



WDAP-C7200E Data Transmission Rates **1200Mbps**

Industrial Compliant Wireless LAN and LAN

- Compliant with the IEEE 802.11a/b/g/n/ac wireless technology
- Equipped with 10/100/1000Mbps RJ45 ports, auto MDI/MDI-X supported

RF Interface Characteristics

- 802.11ac 2T2R MU-MIMO architecture with data rate of up to 1200Mbps (300Mbps at 2.4GHz and 867Mbps at 5GHz)
- High output power with multiply-adjustable transmit power control

Multiple Operation Modes and Wireless Features

- Multiple operation modes: AP, Gateway, Repeater, WDS
- WMM (Wi-Fi multimedia) provides higher priority to multimedia transmitting over wireless
- Coverage threshold to limit the weak signal of clients occupying session
- Real-time Wi-Fi channel analysis chart and client limit control for better performance

Secure Network Connection

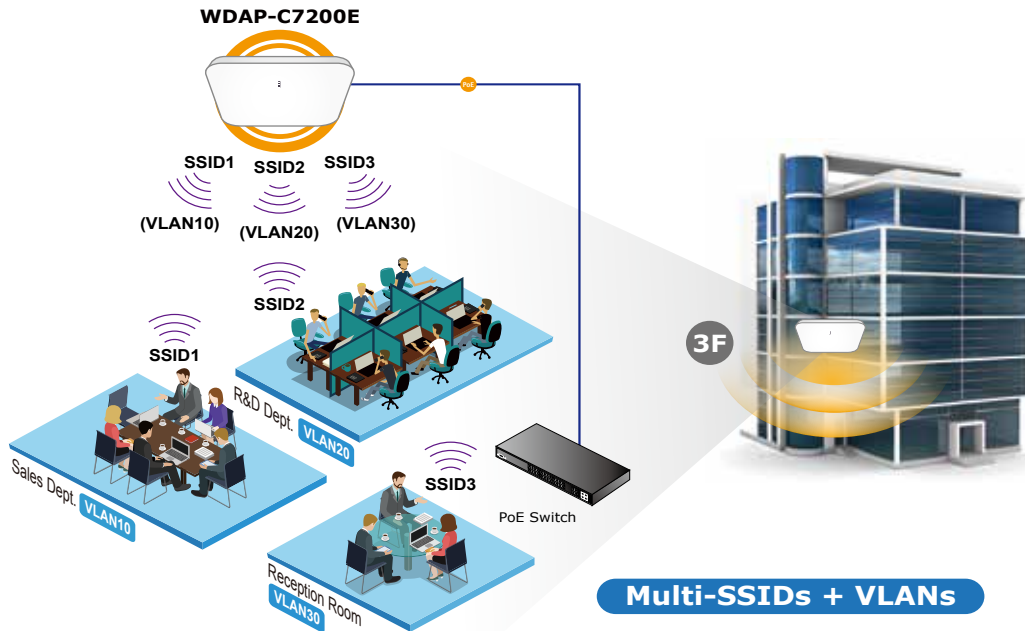
- Full encryption supported: 64-/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK and 802.1X RADIUS authentication
- Supports 802.1Q VLAN and SSID-to-VLAN mapping
- Supports IP/Port/MAC address/URL filtering, DoS, SPI Firewall
- Supports DMZ and Port forwarding
- Bandwidth control per IP address to increase network stability

Easy Deployment and Management

- Supports PLANET AP Controllers in AP mode
- Easy discovery by PLANET Smart Discovery
- Self-healing mechanism through system auto reboot setting
- System status monitoring through remote Syslog Server
- Supports PLANET DDNS/ Easy DDNS

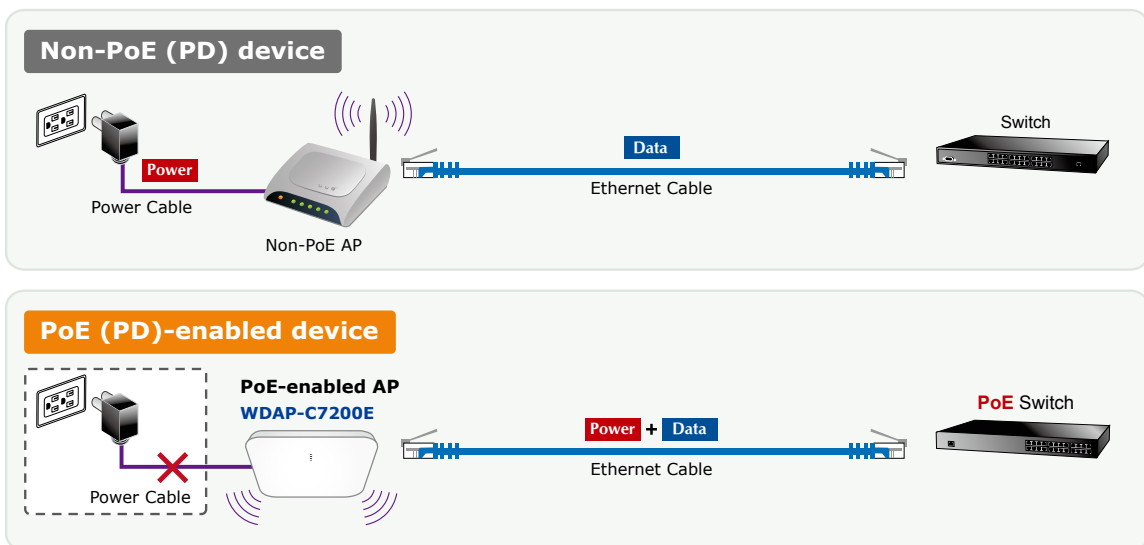
Advanced Security and Rigorous Authentication

The WDAP-C7200E supports 128-bit WEP, WPA / WPA2, WPA-PSK and WPA2-PSK wireless encryptions, the advanced WPA2-AES mechanism and 802.1X RADIUS authentication, which can effectively prevent eavesdropping by unauthorized users or bandwidth occupied by unauthenticated wireless access. Furthermore, any users are granted or denied access to the wireless LAN network based on the ACL (Access Control List) that the administrator pre-established. For management purposes, the IEEE 802.1Q VLAN supported allows multiple VLAN tags to be mapped to multiple SSIDs to distinguish the wireless access.



Ceiling-mount Design for Your Environment

With the standard IEEE802.3at Power over Ethernet (PoE) design, the WDAP-C7200E can be easily installed in the areas where power outlets are not available. By supporting the standard IEEE 802.3at PoE PD power scheme, the WDAP-C7200E can be powered and networked by a single UTP cable, effectively eliminating the needs of dedicated electrical outlets on the ceiling and reducing the cabling cost. Furthermore, the system administrator is able to arrange the PoE schedule of the WDAP-C7200E by working with the managed PoE switch.



Easy Installation and Management

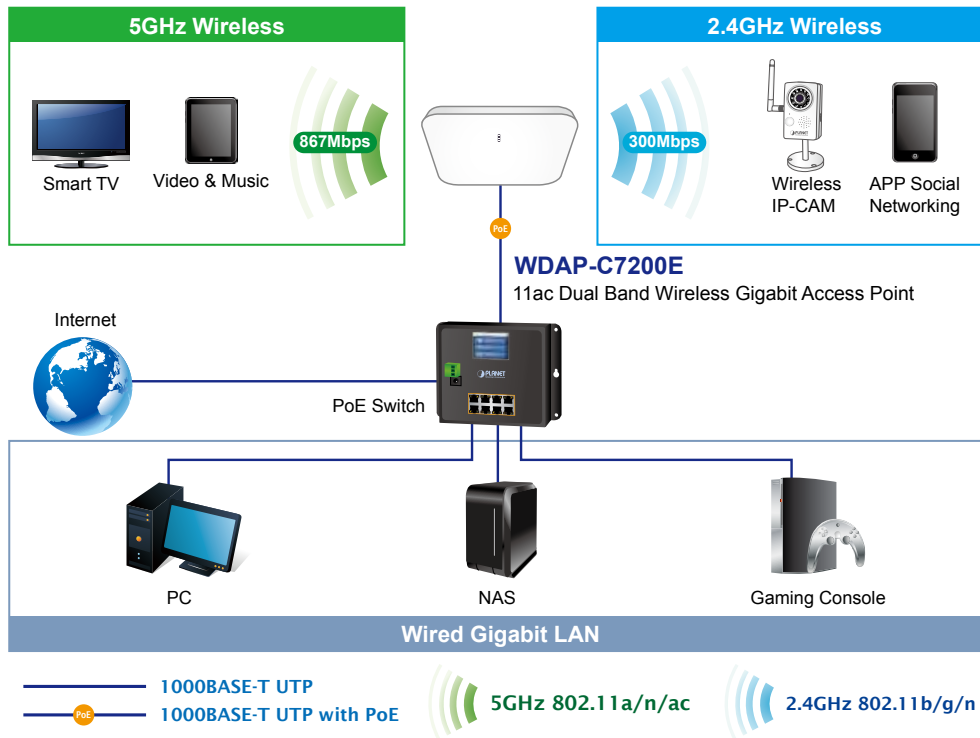
With user-friendly Web UI and step-by-step Quick Setup Wizard, the WDAP-C7200E is easy to install, even for users who never experience setting up a wireless network. Furthermore, you can simply install our software controller, **PLANET SAPC (Smart AP Control)**, to deliver wireless profiles to multiple APs simultaneously, thus making the central management simple.



Applications

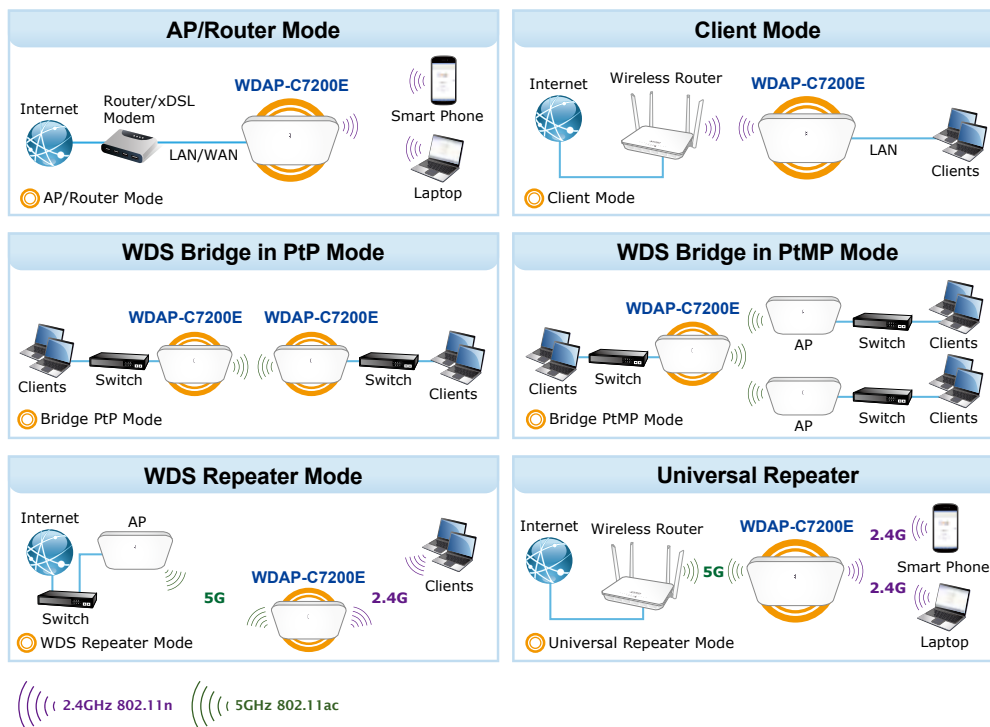
Extreme High Speed and Dual Band Make Wi-Fi Transmission More Powerful

The WDAP-C7200E delivers the Dual Band technology to avoid signal interference and ensure the best Wi-Fi performance. It allows you to check e-mails and surf the Internet via the 2.4GHz band and simultaneously watch High-Definition (HD) video or any other multimedia application via 5GHz band. Moreover, the Gigabit Ethernet port of the WDAP-C7200E offers ultra-fast wired connections that utilize the maximum wireless bandwidth; therefore, users will have real wireless speed over 100Mbps. With outstanding stability of high-speed wireless transmission, the WDAP-C7200E can provide users with excellent experience in multimedia streaming with your mobile devices anywhere, anytime.



Multiple Operation Modes for Various Applications

WDAP-C7200E supports AP, Gateway, WDS Bridge PtP, WDS Bridge PtMP and Repeater modes, through which it provides more flexibility for users when wireless network is established. Compared with general wireless access points, the WDAP-C7200E offers more powerful and flexible capability for wireless clients.



Specifications

| | | | |
|--|--|---|---------------------------|
| Product | WDAP-C7200E | | |
| Hardware Specifications | | | |
| Interfaces | LAN | 2 x 10/100/1000BASE-T RJ45 port, 1 port 802.3at PoE In Auto-negotiation and Auto MDI/MDI-X | |
| | Gain | 4 x Internal 5dBi antenna (2.4G x2, 5G x2) | |
| Reset Button | Reset button on the rear side (Press over 15 seconds to reset the device to factory default) | | |
| LED Indicators | SYS, 2.4G, 5G | | |
| Dimensions (Φ x H) | 198 x 28mm | | |
| Weight | 498 ±5g | | |
| Power Requirements | 48V 0.5A, IEEE 802.3at PoE+ or 12V DC, 1.5A | | |
| Power Consumption | < 20W | | |
| Mounting | Ceiling Mount | | |
| Wireless Interface Specifications | | | |
| Standard | IEEE 802.11ac IEEE 802.11n IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11i | IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3x flow control IEEE 802.11b/g/n 2.4GHz | |
| Media Access Control | CSMA/CA | | |
| Data Modulation | 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11b: DSSS (DBPSK / DQPSK / CCK) | | |
| Band Mode | 2.4G / 5G concurrent mode | | |
| Frequency Range | 2.4GHz : FCC: 2.412~2.462GHz ETSI: 2.412~2.472GHz 5GHz : FCC: 5.180~5.240GHz, 5.745~5.825GHz ETSI: 5.180~5.700GHz | | |
| Operating Channels | FCC: 36, 40, 44, 48, 149, 153, 157, 161, 165 (9 Channels) ETSI: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 132, 136, 140 (16 Channels) 5GHz channel list will vary in different countries according to their regulations. | | |
| Max. Transmit Power (dBm) | FCC: up to 29 ± 1dBm ETSI: < 20dBm (EIRP) | | |
| Receive Sensitivity | Network Mode | Data Rate | Receive Sensitivity (dBm) |
| | 2.4GHz | | |
| | 802.11b | 1Mbps | -99 |
| | | 11Mbps | -92 |
| | 802.11g | 6Mbps | -95 |
| | | 54Mbps | -82 |
| | 802.11n HT20 | MCS0/MCS8 | -95 |
| | | MCS7/MCS15 | -77 |
| | 802.11n HT40 | MCS0/MCS8 | -93 |
| | | MCS7/MCS15 | -75 |
| | 5GHz | | |
| | 802.11a | 6Mbps | -92 |
| | | 54Mbps | -75 |
| | 802.11n HT20 | MCS0/MCS8 | -91 |
| | | MCS7/MCS15 | -72 |
| | 802.11n HT40 | MCS0/MCS8 | -88 |
| | | MCS7/MCS15 | -70 |
| 802.11ac VHT20 | MCS0 | -92 | |
| | MCS8 | -70 | |
| 802.11ac VHT40 | MCS0 | -89 | |
| | MCS9 | -65 | |
| 802.11ac VHT80 | MCS0 | -87 | |
| | MCS9 | -61 | |

| Software Features | |
|---|---|
| LAN | Static IP Supports IP-MAC binding |
| WAN | <ul style="list-style-type: none"> ■ Static IP ■ Dynamic IP ■ PPPoE |
| Wireless Mode | <ul style="list-style-type: none"> ■ Access Point ■ Gateway ■ Repeater ■ WDS (PtP/PtMP) |
| Channel Width | 20MHz, 40MHz, 80MHz |
| Encryption Security | 64-/128-bit WEP, WPA, WPA-PSK, WPA2, WPA2-PSK, 802.1X |
| Wireless Security | Enable/Disable SSID Broadcast Wireless MAC address filtering User Isolation |
| Max. SSIDs | 4 |
| Max. Clients | 64 per radio (50 is suggested, depending on usage) |
| Max. WDS Peers | 4 |
| Wireless QoS | Supports Wi-Fi Multimedia (WMM) |
| Wireless Advanced | WMM (Wi-Fi Multimedia): 802.11e Wireless QoS Multiple SSID: up to 4 at 2.4GHz and 5GHz, respectively Wireless Isolation: Enables to isolate each connected wireless client from communicating with each other Provides Wireless Statistics |
| Wireless Advanced | Auto Channel Selection 5-level Transmit Power Control (100%, 75%, 50%, 25%, 12.5%) Client Limit Control, Coverage Threshold Wi-Fi channel analysis chart |
| Status Monitoring | Device status, Wireless client List PLANET Smart Discovery DHCP client table System Log supports remote syslog server |
| VLAN | IEEE 802.1Q VLAN (VID: 3~4094) SSID-to-VLAN mapping up to 4 SSIDs |
| Self-healing | Supports auto reboot settings per day/hour |
| Management | Remote management through PLANET DDNS/ Easy DDNS Configuration backup and restore Supports UPnP Supports IGMP Proxy Supports PPTP/L2TP/IPSec VPN Pass-through SNMP v1/v2c/v3 support, MIB I/II, Private MIB |
| Central Management ⁽¹⁾ | Applicable controllers: WAPC-500, WAPC-1000 and Smart AP Control(SAPC) |
| Remarks [1]: The feature will be supported through firmware/system upgrade. | |
| Environment & Certification | |
| Temperature | Operating: 0 ~ 40 degrees C Storage: -40 ~ 70 degrees C |
| Humidity | Operating: 10 ~ 90% (non-condensing) Storage: 5 ~ 90% (non-condensing) |
| Regulatory | CE, RoHS |

Ordering Information

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|-------------|---|
| WDAP-C7200E | 1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point |
|-------------|---|

Related Wireless Products

| | |
|------------------|--|
| WDRT-1202AC | 1200Mbps 802.11ac Dual-Band Wireless Gigabit Router |
| WDRT-1200AC | 1200Mbps 802.11ac Dual-Band Wireless Gigabit Router |
| WRE-1200AC | 1200Mbps 802.11ac Dual Band Wall Plug WiFi Range Extender |
| WDL-U601AC | 433Mbps 802.11ac Dual Band Wireless USB Adapter |
| WNAP-C3220E | 300Mbps 802.11n Ceiling-mount Wireless Access Point (802.3af/at PoE, 10/100TX LAN) |
| WDAP-1750AC | 1750Mbps 802.11ac Dual Band Wall Mount Enterprise Wireless Access Point |
| Smart AP Control | PLANET Smart Wireless AP Controller Software |

* To have the best performance and wireless connection, we advise you to match with the above related products.

Related PoE Products

| | |
|------------------------------|--|
| POE-161 | IEEE 802.3at Gigabit High Power over Ethernet Injector (external power) |
| POE-163 | IEEE 802.3at Gigabit High Power over Ethernet Injector (internal power) |
| SGS-6341-24P4X | Layer 3 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Stackable Managed Switch |
| GS-5220-24P4XV | 24-Port 10/100/1000Mbps 802.3at PoE+ plus 4 Shared SFP Managed Switch |
| GS-5220-24P4XVR | L2+ 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Managed Switch with LCD touch screen |
| GS-5220-16P2XV | 24-Port 10/100/1000Mbps + 4 Shared SFP 802.3at Stackable PoE Managed Switch |
| GS-5220-16P2XVR | L2+ 16-Port 10/100/1000T 802.3at PoE + 2-Port 10G SFP+ Managed Switch with LCD Touch Screen (220W) |
| GS-5220-24P4X/GS-5220-24P4XR | L2+ 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Managed Switch / 400W |
| GS-5220-8P2T2X | L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 1G/10G SFP+ Managed Switch |
| GS-5220-24P2X | L2+ 24-Port 10/100/1000T 802.3at PoE + 2-Port 10G SFP+ Stackable Managed Switch / 440W |
| GS-4210-24P4C/GS-4210-24PL4C | 24-Port 10/100/1000T 802.3at PoE + 4-Port Gigabit TP/SFP Combo Managed Switch |
| GS-4210-8P2T2S | 8-Port 10/100/1000Mbps 802.3at PoE + 2-Port 10/100/1000Mbps + 2-Port 100/1000X SFP Managed Switch |
| IGS-5225-8P2S2X | Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000X SFP + 2-Port 10G SFP+ Managed Ethernet Switch (-40~75 degrees C) |
| IGS-5225-8P4S | Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 4-Port 100/1000X SFP Managed Ethernet Switch (-40~75 degrees C) |