

# GPON HGU with 4-Port GbE, 1200Mbps 802.11ac Wireless and 2-Port FXS (1 x USB)



### Ultra-high-speed, Wave 2 MU-MIMO Wireless LAN Solution

PLANET WDAP-C7210E 1200Mbps Wave 2 Dual Band 802.11ac Wireless AP supports central management through PLANET NMS controllers. With IEEE 802.11ac Wave 2 MU-MIMO 2T2R dual-band technology, the WDAP-C7210E provides a maximum wireless speed of 867Mbps at 5GHz and 300Mbps at 2.4GHz.



### Benefits of MU-MIMO under 802.11ac Wave 2

With the MU-MIMO Wave 2 technology, the WDAP-C7210E, installed in public areas such as hotspots, airports and conferences, reduces the frustration that Wi-Fi users often experience in downloading web pages, e-mail file attachments and media contents. For cellular operators, the WDAP-C7210E provides a better Wi-Fi user experience, reducing the likelihood of users turning off Wi-Fi and putting more load on the cellular network. For enterprises, this technology also can solve Wi-Fi congestion issues in open work spaces and conference rooms.

WAVE 1
SU-MIMO
Serving one user at a time







### 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 Wave 2 2T2R 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, WISP, Repeater, Super 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
- Support Terminal Fast Roaming with 802.11k, 802.11v, and 802.11r

### 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

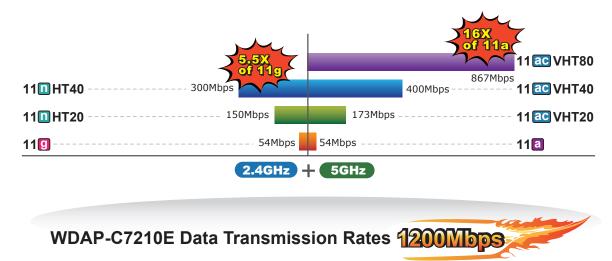
### Easy Deployment and Management

- 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



#### Powerful Dual-band WLAN Solution

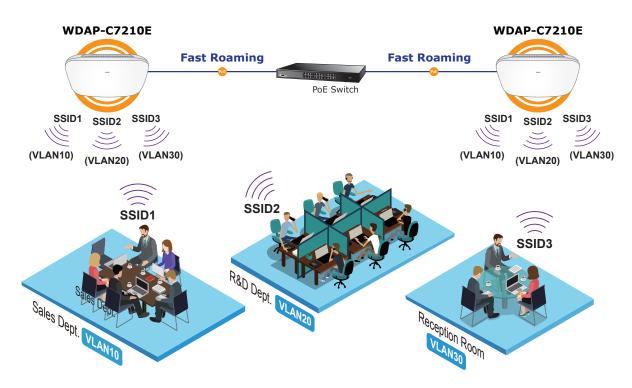
PLANET WDAP-C7210E, adopting the IEEE 802.11ac Wave 2 standard, provides a high-speed transmission of power and data, meaning two remote nodes in the **5GHz** frequency band can be bridged. The **2.4GHz** wireless connection can also be used simultaneously. Furthermore, the WDAP-C7210E adopts the high-class Qualcomm Atheros SoC (System-on-a-Chip), which provides higher stability to meet the stringent requirements of the solution.



### Advanced Security and Rigorous Authentication

The WDAP-C7210E 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.

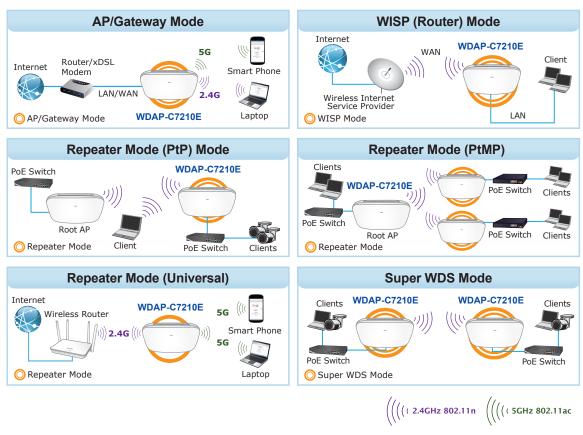
### Multi-SSID + VLAN + Fast Roaming





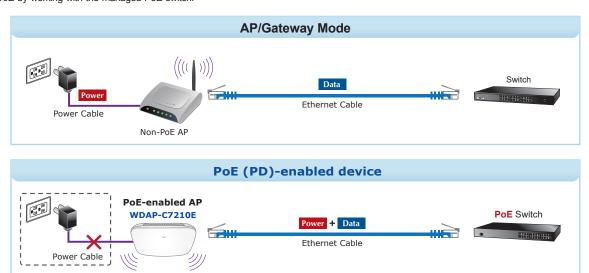
### Multiple Operation Modes for Various Applications

The WDAP-C7210E supports AP, Gateway, WISP, Repeater and Super WDS modes, through which it provides more flexibility for users when wireless network is established. Compared with general wireless access points, the WDAP-C7210E offers more powerful and flexible capability for wireless clients.



### Ceiling-mount Design for Your Environment

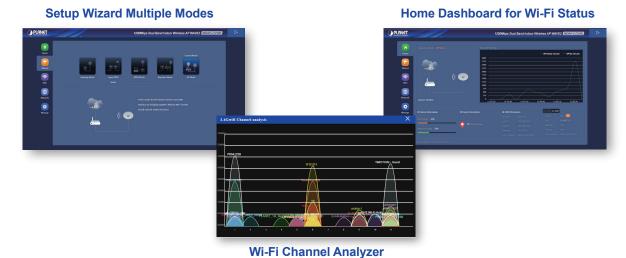
With the standard IEEE802.3at Power over Ethernet (PoE) design, the WDAP-C7210E can be easily installed in the areas where power outlets are not available. By supporting the standard IEEE 802.3at PoE PD power scheme, the WDAP-C7210E can be powered and networked by a single UTP cable, effectively eliminating 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-C7210E by working with the managed PoE switch.





### Optimized Efficiency in AP Management

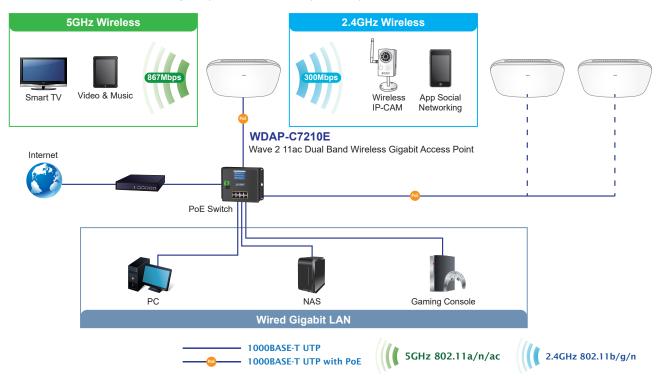
The brand-new GUI configuration wizard helps the system administrator easily set up the WDAP-C7210E step by step. Besides, the built-in Wi-Fi analyzer provides real-time channel utilization to prevent channel overlapping to assure greater performance. With the automatic transmission power mechanism, distance control and scheduled reboot setting, the WDAP-C7210E is easy for the administrator to deploy and manage without on-site maintenance. Moreover, you can use PLANET NMS-500 or NMS-1000V AP control function to deliver wireless profiles to multiple APs simultaneously, thus making the central management simple.



## Applications

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

The WDAP-C7210E 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-C7210E 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-C7210E can provide users with excellent experience in multimedia streaming with your mobile devices anywhere, anytime.





# Specifications

	WDAP-C/	WDAP-C7210E					
Hardware Specifications							
Interfaces	LAN	2 x 10/100/1	000BASE-T RJ45 port				
menaces	LAN	Auto-negotia	ation and auto MDI/MD	-X			
Antennas	Gain						
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 (W x D x H)	186 x 186 x 35.8mm						
Weight		380 ±5g					
Power Requirements	48V DC IN, 0.5A, IEEE 802.3at PoE+ or						
		12V DC IN, 1.5A from DC Jack ( 5.5 x 2.1mm )					
Power Consumption		< 12W					
Mounting  Wiseless Interface Specifications	Ceiling Mount						
Wireless Interface Specifications	IEEE 000 4400						
Standard	IEEE 802.1 IEEE 802.1 IEEE 802.1 IEEE 802.1 IEEE 802.3 IEEE 802.3 IEEE 802.3 IEEE 802.3	IEEE 802.11ac IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11i IEEE 802.3 10BASE-T IEEE 802.3 u 100BASE-TX IEEE 802.3 ab 1000BASE-T IEEE 802.3 flow control IEEE 802.11k, 802.11v, and 802.11r					
Media Access Control	CSMA/CA	ik, 002.11V, aii	u 002.111				
Wedia Access Control							
Data Modulation	802.11a/g/r	802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11b: DSSS (DBPSK / DQPSK / CCK)					
Band Mode	2.4G / 5G d	concurrent mod	е				
Frequency Range	FCC: 2.4	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  FCC: 36, 40, 44, 48, 149, 153, 157, 161, 165 (9 Channels) ETSI: 36, 40, 44, 48, 100, 104, 108, 112, 116, 132, 136, 140 (12 Channels)					
	ETSI: 5.1	80~5.700GHz 0, 44, 48, 149,	153, 157, 161, 165 (9 CF				
Operating Channels	ETSI: 5.1 FCC: 36, 4 ETSI: 36, 4 5GHz char	80~5.700GHz 0, 44, 48, 149, 0, 44, 48, 100, nnel list may v	153, 157, 161, 165 (9 Ch 104, 108, 112, 116, 132		tions.		
Operating Channels  Max. Transmit Power (dBm)	ETSI: 5.1.  FCC: 36, 4  ETSI: 36, 4  5GHz char  FCC: up to  ETSI: < 200	80~5.700GHz 0, 44, 48, 149, 0, 44, 48, 100, nnel list may v 22 ± 1dBm dBm (EIRP)	153, 157, 161, 165 (9 Cl 104, 108, 112, 116, 132 ary in different countr	, 136, 140 (12 Channels) ries according to their regula			
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	ETSI: 5.1. FCC: 36, 4 ETSI: 36, 4 5GHz char FCC: up to ETSI: < 20: Network N 2.4GHz 802.11b	80~5.700GHz 0, 44, 48, 149, 0, 44, 48, 100, nnel list may v 22 ± 1dBm dBm (EIRP)	153, 157, 161, 165 (9 Ct 104, 108, 112, 116, 132 ary in different country Data Rate  1Mbps 11Mbps 6Mbps 54Mbps	, 136, 140 (12 Channels) ries according to their regula  Receive Sensitivity (0  -99 -92 -95 -82			
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	ETSI: 5.1. FCC: 36, 4 ETSI: 36, 4 5GHz char FCC: up to ETSI: < 20 Network N 2.4GHz 802.11b 802.11g 802.11n HT 5GHz	80~5.700GHz 0, 44, 48, 149, 10, 44, 48, 100, nnel list may v 22 ± 1dBm dBm (EIRP) 1ode	153, 157, 161, 165 (9 Ct 104, 108, 112, 116, 132 ary in different counti Data Rate  1Mbps 11Mbps 6Mbps 54Mbps MCS0/MCS8 MCS7/MCS15 MCS0/MCS8	. 136, 140 (12 Channels) ries according to their regula  Receive Sensitivity (company) -99 -92 -95 -82 -95 -77 -93			
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Max. Transmit Power (dBm)	ETSI: 5.1. FCC: 36, 4 ETSI: 36, 4 5GHz char FCC: up to ETSI: < 200 Network N 2.4GHz 802.11b 802.11p 802.11n HT 5GHz 802.11a 802.11n HT	80~5.700GHz 0, 44, 48, 149, 10, 44, 48, 100, 10 el list may v 22 ± 1dBm dBm (EIRP) 10 de	153, 157, 161, 165 (9 Ch 104, 108, 112, 116, 132 ary in different counti Data Rate  1Mbps 11Mbps 6Mbps 54Mbps MCS0/MCS8 MCS7/MCS15 MCS0/MCS8 MCS7/MCS15 6Mbps 54Mbps MCS0/MCS8 MCS7/MCS15 6Mbps 54Mbps MCS0/MCS8 MCS7/MCS15	. 136, 140 (12 Channels) ries according to their regula  Receive Sensitivity (compared to their regula)  -99 -92 -95 -82 -95 -77 -93 -75  -92 -75 -91 -72 -88 -70 -92			
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Software Features		
Software readures	Static ID / Dynamic ID	
LAN	Static IP / Dynamic IP	
	Supports IP-MAC binding	
	■ Static IP	
WAN	■ Dynamic IP	
	■ PPPoE	
	■ Access Point	
	■ Gateway	
Wireless Mode	■WISP	
	■ Repeater	
	■ Super WDS	
Channel Width	20MHz, 40MHz, 80MHz	
Encryption Security	64-/128-bit WEP, WPA, WPA-PSK, WPA2, WPA2-PSK, 802.1X	
	Enable/Disable SSID Broadcast	
Wireless Security	Wireless max. 32 MAC addresses filtering	
	User Isolation	
Max. SSIDs	8 (4 per radio)	
Max. Clients	64 per radio (50 is suggested, depending on usage)	
Max. WDS Peers	4	
Wireless QoS	Supports Wi-Fi Multimedia (WMM)	
	Auto Channel Selection	
	5-level Transmit Power Control (Max.100%, Efficient 75%, Enhanced 50%, Standard 25% or Min. 12.5%)	
Wireless Advanced	Client Limit Control, Coverage Threshold	
vinciose / lavancea	Wi-Fi channel analysis chart	
	Fast Roaming	
	Device status, Wireless client List	
	PLANET Smart Discovery	
Status Monitoring		
	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	
	Remote management through PLANET DDNS/ Easy DDNS	
	Configuration backup and restore	
Management	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: NMS-500, NMS-1000V	
Remarks [1]: The feature will be supported the	nrough firmware/system upgrade.	
Environment & Certification		
Temperature	Operating: 0 ~ 40 degrees C	
Temperature	Storage: -40 ~ 70 degrees C	
I I	Operating: 10 ~ 90% (non-condensing)	
Humidity	Storage: 5 ~ 90% (non-condensing)	
	otologo: o ook (non condensing)	

### **Ordering Information**

WDAP-C7210E	1200Mbps 802.11ac Wave 2 Dual Band Ceiling-mount Wireless Access Point w/802.3at PoE+ and 2
WDAP-C7210E	10/100/1000T LAN Ports



### **Related Wireless Products**

WDAP-C7200E	1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point (802.3at PoE, 2 10/100/1000T LAN Ports)
WNAP-C3220E	300Mbps 802.11n Ceiling-mount Wireless Access Point (802.3af/at PoE, 10/100TX LAN)
WNAP-W2200UE	300Mbps 802.11n In-Wall Wireless Access Point w/ USB Charger (EU Type, 802.3af/at)
WDAP-W750E	750Mbps 802.11ac Dual Band In-wall Wireless Access Point w/ USB Charger (EU Type, 802.3af/at PoE, 10/100TX LAN)
NMS-500	Enterprise-class Universal Network Management Controller (500 nodes, 5 10/100/1000T LAN Ports)
NMS-1000V-12	Universal Network Management Controller with 12" LCD Touch screen (1024 nodes, 2 10/100/1000T LAN Ports)
NMS-1000V-10	Universal Network Management Controller with 10" LCD Touch screen (1024 nodes, 2 10/100/1000T LAN Ports)

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