

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



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. The new version of the WDAP-C7210E not only has more powerful performance but also supports PLANET CloudViewer app for remotely monitoring devices from anywhere.



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.









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: Access Point, Gateway, Repeater mode
- 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: WAP-PSK/WPA2-PSK, WPA2-PSK, WPA2-PSK/ WPA3-PSK, WPA3-PSK, WPA/WPA2 Enterprise, WPA2 Enterprise 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



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.



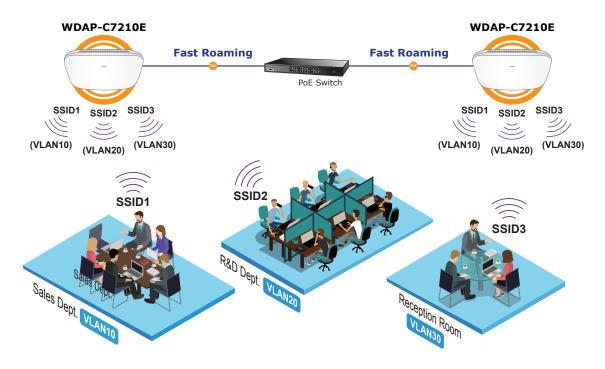
Easy Deployment and Management

- · Supports PLANET AP Controllers in AP mode
- · Self-healing mechanism through system auto reboot setting
- · System status monitoring through remote syslog server
- Gateway mode supports PLANET DDNS/Easy DDNS,
 Captive Portal, RADIUS Server/Client
- · PLANET Smart Discovery Utility for deployment management
- PLANET NMS system and CloudViewer for deployment management at the same time

Enhanced Security and Rigorous Authentication

The WDAP-C7210E supports WPA / WPA2, WPA-PSK, WPA2-PSK and WPS3-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.

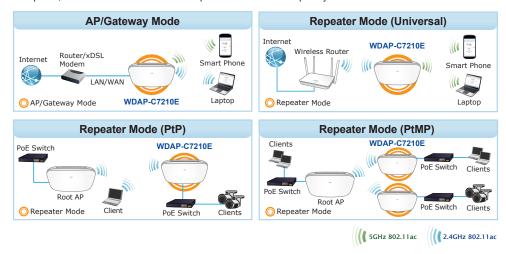
Multi-SSID + VLAN + Fast Roaming





Multiple Operation Modes for Various Applications

The WDAP-C7210E supports AP, Gateway and Repeater mode, 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.



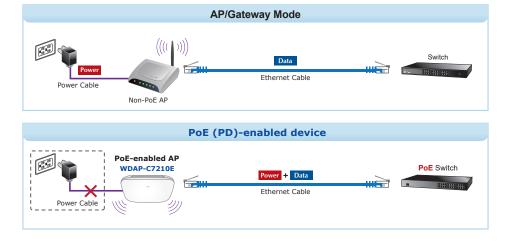
WPA3 Next Generation Security for Your WLAN Solution

WPA3 is the next generation Wi-Fi security technology that provides the most advanced security protocol to the market. WPA3 makes your connection more secure by preventing hackers from easily cracking your password no matter how simplified the password is. WPA3 can also provide more reliable password-based authentication, so it can better protect the security of individual users.



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 controller series, WS switch series, VR series, ICG-2515 router series, and AP control function to deliver wireless profiles to multiple APs simultaneously, thus making the central management simple.

*Note: The WDAP-C7210E and WDAP-C7210E (V2) are two different devices. Please make sure the model is right before setting it with NMS equipment.

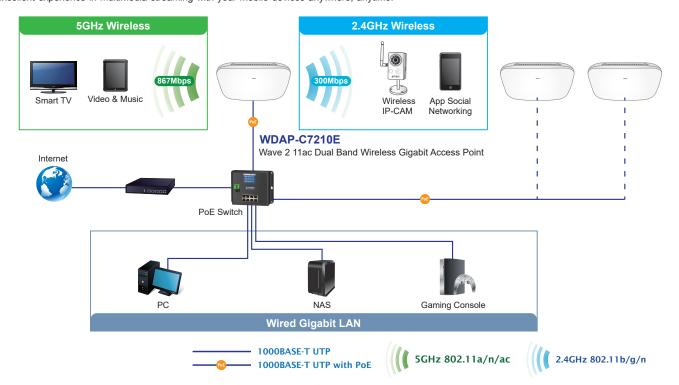
Check the model name from the label to make sure that the firmware is upgraded on the right version of the AP.



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

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Product	WDAP-C7210E	WDAP-C7210E				
Hardware Specifications						
Laterface	2 x 10/1	00/1000BASE-T RJ45 port				
Interfaces	LAN Auto-ne	egotiation and auto MDI/MDI-	-X			
Antennas	Gain: 2 x 2.40	GHz internal 5dBi antenna, 2	x 5GHz internal 4dBi antenna			
Reset Button	Reset button on the rear side (Press over 7 seconds to reset the device to factory default)					
LED Indicators	SYS, 2.4GHz, 5GHz					
Dimensions (W x D x H)	186 x 186 x 35.8mm					
Weight	380 ±5q					
, roigin	48V DC IN, 0.5A, IEEE 802.3at PoE+ or					
Power Requirements	12V DC IN, 0.3A, 1EEE 802.3at FOE+ 01					
Power Consumption	< 12W					
Mounting	Ceiling Mount					
Wireless Interface Specifications	J. J					
,	IEEE 902 1100					
	IEEE 802.11ac					
	IEEE 802.11n					
	IEEE 802.11a					
	IEEE 802.11b					
	IEEE 802.11g					
Standard	IEEE 802.11i					
	IEEE 802.3 10BASE-T					
	IEEE 802.3u 100BASE-TX					
	IEEE 802.3ab 1000BASE-T					
	IEEE 802.3x flow control					
	IEEE 802.11k, 802.11v, and 802.11r					
Media Access Control	CSMA/CA					
	802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)					
Data Modulation	802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)					
	802.11b: DSSS (DBPSK / DQPSK / CCK)					
Band Mode	2.4G / 5G concurrent mode					
	2.4GHz:					
	FCC: 2.412~2.462GHz					
	ETSI: 2.412~2.472GHz					
Frequency Range	5GHz:					
	FCC: 5.180~5.32240GHz, 5.500745~5.825GHz					
	ETSI: 5.180~5.320GHz, 5.500~5.180~5.700GHz					
	2.4GHz:	,				
	FCC: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 FTSI: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13					
	ETSI: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13					
Operating Channels	5GHz: ECC: 36 40 44 48 52 56 60 64 100 104 108 112 116 120 124 128 132 136 140 140 153 157 161					
	FCC: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 149, 153, 157, 161,					
	165 (24 Channels) ETSI: 36, 40, 44, 48, 53, 56, 60, 64, 100, 104, 108, 113, 116, 120, 124, 138, 133, 136, 140 (10 Channels)					
	ETSI: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140 (19 Channels) *5GHz channel list will vary in different countries according to their regulations.					
		-	ies according to their regulations.			
Max. Transmit Power (dBm)	FCC: up to 22 ± 1dBm					
,	ETSI: < 20dBm (EIRF					
	Network Mode	Data Rate	Receive Sensitivity (dBm)			
	2.4GHz					
	902 11h	1Mbps	-99			
	802 11h	Пипра	-33			
	802.11b	11Mbps	-92			
Pacalya Sansitivity						
Receive Sensitivity	802.11b 802.11g	11Mbps	-92			
Receive Sensitivity	802.11g	11Mbps 6Mbps	-92 -95			
Receive Sensitivity		11Mbps 6Mbps 54Mbps	-92 -95 -82			
Receive Sensitivity	802.11g	11Mbps 6Mbps 54Mbps MCS0/MCS8	-92 -95 -82 -95			



	5GHz	0.00	20		
Receive Sensitivity	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 / Dynamic IP				
	Supports IP-MAC binding				
	■ Static IP				
	■ Dynamic IP				
WAN	■ PPPoE				
	■ PPTP				
	■ L2TP				
	■ Access Point				
Wireless Mode	■ Gateway				
	■ Repeater				
Channel Width	20MHz, 40MHz, 80MHz				
Encryption Security	WPA, WPA-PSK, WPA2-PSK, WPA3-PSK, 802.1X				
	Enable/Disable SSID Broa	adcast			
Wireless Security	Wireless max. 32 MAC ad	dresses filtering			
	User Isolation				
Max. SSIDs	8 (4 per radio)				
Max. Clients	64 per radio				
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. 15%)				
Wireless Advanced	Client Limit Control, Coverage Threshold				
	Wi-Fi channel analysis chart				
	Fast Roaming				
	Device status, Wireless client List				
Status Manitorina	PLANET Smart Discovery				
Status Monitoring	DHCP client table				
Status Monitoring	DHCP client table				
Status Monitoring	DHCP client table System Log supports rem				
•		ote syslog server			
VLAN	System Log supports rem	ote syslog server 1~4094)			
•	System Log supports rem IEEE 802.1Q VLAN (VID:	ote syslog server 1~4094) p to 4 SSIDs			
VLAN	System Log supports rem IEEE 802.1Q VLAN (VID: SSID-to-VLAN mapping u	ote syslog server 1~4094) p to 4 SSIDs ngs per day/hour	sy DDNS		
VLAN	System Log supports rem IEEE 802.1Q VLAN (VID: SSID-to-VLAN mapping u Supports auto reboot setti	ote syslog server 1~4094) p to 4 SSIDs ngs per day/hour ugh PLANET DDNS/ Ea	sy DDNS		
VLAN Self-healing	System Log supports rem IEEE 802.1Q VLAN (VID: SSID-to-VLAN mapping u Supports auto reboot setti Remote management thro	ote syslog server 1~4094) p to 4 SSIDs ngs per day/hour ugh PLANET DDNS/ Ea	sy DDNS		
VLAN	System Log supports rem IEEE 802.1Q VLAN (VID: SSID-to-VLAN mapping u Supports auto reboot setti Remote management thro Configuration backup and	ote syslog server 1~4094) p to 4 SSIDs ngs per day/hour ugh PLANET DDNS/ Ea	sy DDNS		
VLAN Self-healing	System Log supports rem IEEE 802.1Q VLAN (VID: SSID-to-VLAN mapping u Supports auto reboot setti Remote management thro Configuration backup and Supports UPnP	ote syslog server 1~4094) p to 4 SSIDs ngs per day/hour rugh PLANET DDNS/ Ea restore	sy DDNS		
VLAN Self-healing	System Log supports rem IEEE 802.1Q VLAN (VID: SSID-to-VLAN mapping u Supports auto reboot setti Remote management thro Configuration backup and Supports UPnP Supports IGMP Proxy	ote syslog server 1~4094) p to 4 SSIDs ngs per day/hour nugh PLANET DDNS/ Ea restore	sy DDNS		
VLAN Self-healing	System Log supports rem IEEE 802.1Q VLAN (VID: SSID-to-VLAN mapping u Supports auto reboot setti Remote management thro Configuration backup and Supports UPnP Supports IGMP Proxy Supports PPTP/L2TP/IPS	ote syslog server 1~4094) p to 4 SSIDs ngs per day/hour nugh PLANET DDNS/ Ea restore ec VPN Pass-through MIB I/II, Private MIB	sy DDNS		
VLAN Self-healing Management	System Log supports rem IEEE 802.1Q VLAN (VID: SSID-to-VLAN mapping u Supports auto reboot setti Remote management thro Configuration backup and Supports UPnP Supports IGMP Proxy Supports PPTP/L2TP/IPS SNMP v1/v2c/v3 support,	ote syslog server 1~4094) p to 4 SSIDs ngs per day/hour nugh PLANET DDNS/ Ea restore ec VPN Pass-through MIB I/II, Private MIB	sy DDNS		
VLAN Self-healing Management Central Management Environment & Certification	System Log supports rem IEEE 802.1Q VLAN (VID: SSID-to-VLAN mapping u Supports auto reboot setti Remote management thro Configuration backup and Supports UPnP Supports IGMP Proxy Supports PPTP/L2TP/IPS SNMP v1/v2c/v3 support, Applicable controllers: NM	ote syslog server 1~4094) p to 4 SSIDs ngs per day/hour rugh PLANET DDNS/ Ea restore ec VPN Pass-through MIB I/II, Private MIB IS-500, NMS-1000V	sy DDNS		
VLAN Self-healing Management Central Management	System Log supports rem IEEE 802.1Q VLAN (VID: SSID-to-VLAN mapping u Supports auto reboot setti Remote management thro Configuration backup and Supports UPnP Supports IGMP Proxy Supports PPTP/L2TP/IPS SNMP v1/v2c/v3 support, Applicable controllers: NM Operating: 0 ~ 40 degrees	ote syslog server 1~4094) p to 4 SSIDs ngs per day/hour nugh PLANET DDNS/ Ea restore ec VPN Pass-through MIB I/II, Private MIB IS-500, NMS-1000V	sy DDNS		
VLAN Self-healing Management Central Management Environment & Certification	System Log supports rem IEEE 802.1Q VLAN (VID: SSID-to-VLAN mapping u Supports auto reboot setti Remote management thro Configuration backup and Supports UPnP Supports IGMP Proxy Supports IGMP Proxy Supports PPTP/L2TP/IPS SNMP v1/v2c/v3 support, Applicable controllers: NM Operating: 0 ~ 40 degrees Storage: -40 ~ 70 degrees	ote syslog server 1~4094) p to 4 SSIDs ngs per day/hour nugh PLANET DDNS/ Ea restore ec VPN Pass-through MIB I/II, Private MIB IS-500, NMS-1000V 6 C	sy DDNS		
VLAN Self-healing Management Central Management Environment & Certification	System Log supports rem IEEE 802.1Q VLAN (VID: SSID-to-VLAN mapping u Supports auto reboot setti Remote management thro Configuration backup and Supports UPnP Supports IGMP Proxy Supports IGMP Proxy Supports PPTP/L2TP/IPS SNMP v1/v2c/v3 support, Applicable controllers: NM Operating: 0 ~ 40 degrees Storage: -40 ~ 70 degrees Operating: 10 ~ 90% (non	ote syslog server 1~4094) p to 4 SSIDs ngs per day/hour rugh PLANET DDNS/ Ea restore ec VPN Pass-through MIB I/II, Private MIB IS-500, NMS-1000V s C s C c-condensing)	sy DDNS		
VLAN Self-healing Management Central Management Environment & Certification Temperature	System Log supports rem IEEE 802.1Q VLAN (VID: SSID-to-VLAN mapping u Supports auto reboot setti Remote management thro Configuration backup and Supports UPnP Supports IGMP Proxy Supports IGMP Proxy Supports PPTP/L2TP/IPS SNMP v1/v2c/v3 support, Applicable controllers: NM Operating: 0 ~ 40 degrees Storage: -40 ~ 70 degrees	ote syslog server 1~4094) p to 4 SSIDs ngs per day/hour rugh PLANET DDNS/ Ea restore ec VPN Pass-through MIB I/II, Private MIB IS-500, NMS-1000V s C s C c-condensing)	sy DDNS		



Ordering Information

WDAP-C7210E	1200Mbps 802.11ac Wave 2 Dual Band Ceiling-mount Wireless Access Point w/802.3at PoE+ and 2			
WDAI -07210L	10/100/1000T LAN Ports			

Related Wireless Products

WDAP-C1800AX	Dual Band 802.11ax 1800Mbps Outdoor Wireless AP (IP67, 802.3at PoE+, 4 x N-type connector)
WNAP-W1800AXU	Dual Band 802.11ax 1800Mbps In-wall Wireless Access Point w/802.3at PoE+ and Type C USB
WNAP-W1200E	Dual Band 802.11ac 1200Mbps Wave 2 In-wall Wireless Access Point (EU Type, 802.3at PoE, 3 x 10/100/1000T LAN Ports, 1 x RJ11 Port)
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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