

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

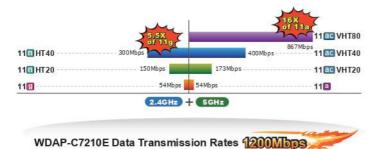
Secure Network Connection

- Full encryption supported: WAP-PSK/WPA2-PSK, WPA2-PSK, WPA2-PSK/ WPA3-PSK, WPA3-PSK, WPAWPA2 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.



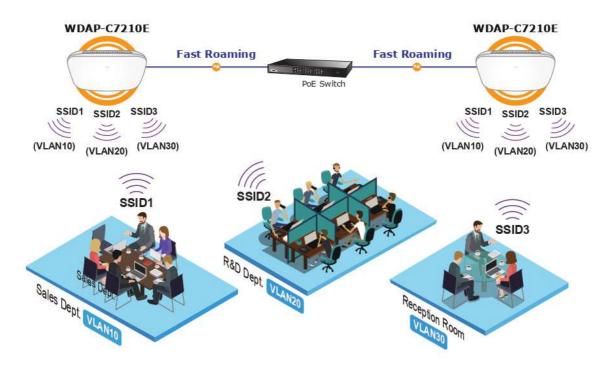
Easy Deployment and Management

- · 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.



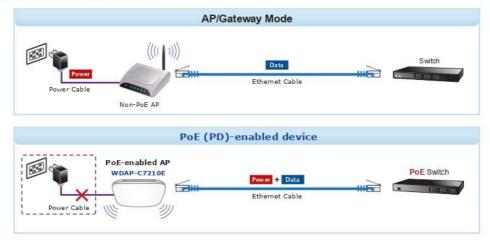
WPA3 Next Generation Security for Your WLAN Solution

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.

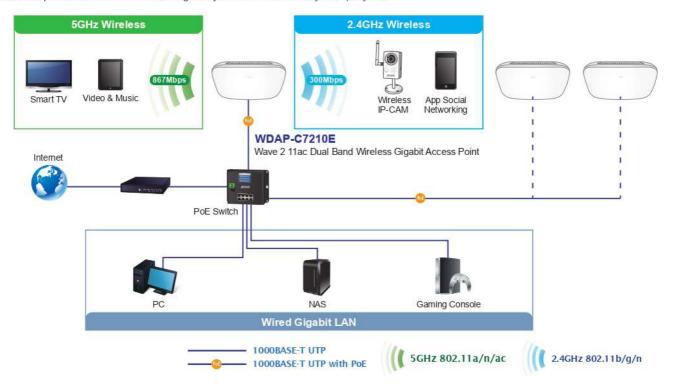
*Note: The WDAP-C7210E and WDAP-C7210E (V2) are two different devices. Please make sure the model is right before setting it with NMS equipment. Check the model name from the label to make sure that the firmware is upgraded on the right version of the AP.



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

Product	WDAP-C7210E					
Hardware Specifications						
Interfaces	LAN		/1000BASE-T RJ45 port tiation and auto MDI/MDI	I-X		
Antennas	Gain:	2 x 2.4GHz	z internal 5dBi antenna, 2	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)					
ED Indicators	SYS, 2.4GHz, 5GHz					
Dimensions (W x D x H)	186 x 186 x 35.8mm					
Veight	380 ±5g					
Power Requirements	48V DC IN, 0.5A, IEEE 802.3at PoE+ or					
ower requirements	12V DC IN, 1.0					
Power Consumption	< 12W	< 12W				
Mounting	Ceiling Mou	unt				
Wireless Interface Specifications						
Standard	IEEE 802.11a IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11i IEEE 802.3 10BASE-T IEEE 802.3 10BASE-T IEEE 802.3 100BASE-T IEEE 802.3 1000BASE-T IEEE 802.11i					
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 c	2.4G / 5G concurrent mode				
Frequency Range	2.4GHz: FCC: 2.412~2.462GHz ETSI: 2.412~2.472GHz 5GHz: FCC: 5.180~5.32240GHz, 5.500745~5.825GHz ETSI: 5.180~5.320GHz, 5.500~5.700GHz					
Operating Channels	ETSI: 1, 2 5GHz: FCC: 36, 165 (24 C ETSI: 36, 4	40, 44, 48, 52 Channels) 40, 44, 48, 52	8, 9, 10, 11, 12, 13 2, 56, 60, 64, 100, 104, 10 , 56, 60, 64, 100, 104, 10	08, 112, 116, 120, 124, 128, 132, 136, 140, 149, 153, 157, 161, 8, 112, 116, 120, 124, 128, 132, 136, 140 (19 Channels) ries according to their regulations.		
Max. Transmit Power (dBm)	FCC: up to ETSI: < 200	22 ± 1dBm dBm (EIRP)				
	Network Mode Data Rate Receive Sensitivity (dBm)					
	2.4GHz					
	802.11b		1Mbps	-99		
			11Mbps	-92		
Receive Sensitivity	802.11g		6Mbps	-95		
			54Mbps	-82		
	802.11n HT20	20	MCS0/MCS8	-95		
			MCS7/MCS15	-77		
	802.11n HT	Acres:	MCS0/MCS8	-93		



	5GHz						
Receive Sensitivity	JOHE	6Mbps	-92				
	802.11a	54Mbps	-75				
		MCS0/MCS8	-91				
	802.11n HT20	MCS7/MCS15	-72				
		MCS0/MCS8	-88				
	802.11n HT40	MCS7/MCS15	-70				
		MCS0	-92				
	802.11ac VHT20	MCS8	-70				
		MCS0	-89				
	802.11ac VHT40	MCS9	-65				
	802.11ac VHT80	MCS0	-87				
		MCS9	-61				
Software Features							
LAN	Static IP / Dynamic IP						
LAIV	Supports IP-MAC bind	Supports IP-MAC binding					
	■ Static IP						
	■ Dynamic IP						
WAN	■ PPPoE						
	■ PPTP						
	■L2TP	■L2TP					
A	■ Access Point						
Wireless Mode	■ Gateway						
	THE LANGE CONTRACTOR OF THE PARTY OF THE PAR	■ Repeater					
Channel Width	20MHz, 40MHz, 80MH						
Encryption Security	WPA, WPA-PSK, WPA2, WPA2-PSK, WPA3-PSK, 802.1X						
	Enable/Disable SSID						
Wireless Security	Wireless max. 32 MAC	C addresses 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						
Window Advanced	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 Position at the Mindoon elient Lint						
	Device status, Wireless client List						
Status Monitoring	PLANET Smart Discovery						
	DHCP client table						
	System Log supports remote syslog server IEEE 802.1Q VLAN (VID: 1~4094)						
VLAN	SSID-to-VLAN mappin						
Self-healing							
Con Houning	Supports auto reboot settings per day/hour Remote management through PLANET DDNS/ Easy DDNS						
	Configuration backup and restore						
	Supports UPnP						
Management	Supports IGMP Proxy						
	Supports PPTP/L2TP/IPSec VPN Pass-through						
	SNMP v1/v2c/v3 support, MIB I/II, Private MIB						
Central Management		: NMS-500, NMS-1000V					
Environment & Certification							
	Operating: 0 ~ 40 deg	rees C					
Temperature	Storage: -40 ~ 70 degrees C						
Temperature	Storage: -40 ~ 70 deg	1662.0					
Humidity	Storage: -40 ~ 70 deg Operating: 10 ~ 90% (Storage: 5 ~ 90% (nor	non-condensing)					



Ordering Information

WDAP-C7210E	1200Mbps 802.11ac Wave 2 Dual Band Ceiling-mount Wireless Access Point w/802.3at PoE+ and 2
WDAF-C/210E	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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