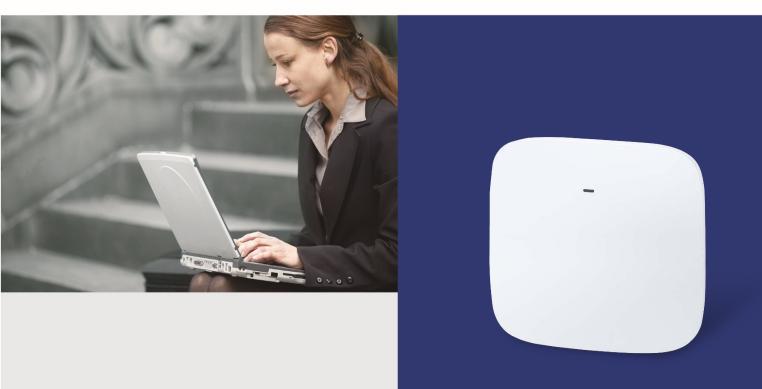


User's Manual

Dual Band 802.11ax 1800Mbps Ceiling-mount Wireless Access Point w/802.3at PoE+ and 2 10/100/1000T LAN Ports

WDAP-C1800AX



Copyright

Copyright © 2021 by PLANET Technology Corp. All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, chemical, manual or otherwise, without the prior written permission of PLANET.

PLANET makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims any warranties, merchantability or fitness for any particular purpose. Any software described in this manual is sold or licensed "as is". Should the programs prove defective following their purchase, the buyer (and not PLANET, its distributor, or its dealer) assumes the entire cost of all necessary servicing, repair, and any incidental or consequential damages resulting from any defect in the software. Further, PLANET reserves the right to revise this publication and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes.

All brand and product names mentioned in this manual are trademarks and/or registered trademarks of their respective holders.

Federal Communication Commission Interference Statement

FCC This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio technician for help.

FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. To assure continued compliance, for example, use only shielded interface cables when connecting to computer or peripheral devices.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
 - (2) This device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Operations in the 5.15-5.25GHzHz band are restricted to indoor usage only.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

CE Compliance Statement

This device meets the RED 2014/53/EU requirements on the limitation of exposure of the general public to electromagnetic fields by way of health protection. The device complies with RF specifications when it is used at a safe distance of 20 cm from your body.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

WEEE regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

Revision

User Manual of PLANET 802.11ax Dual Band Ceiling-mount Wireless Access Point

Model: WDAP-C1800AX

Rev: 1.0 (Aug., 2021)

Part No. EM-WDAP-C1800AX_v1.0

CONTENTS

Chapter	1.Produ	ict Introduction	1
1.1	Packa	age Contents	1
1.2	Produ	ict Description	2
1.3	Produ	ict Features	9
Chapter	2.Hardw	vare Installation	13
2.1	Produ	ıct Outlook	13
Chapter	3.Conne	ecting to the AP	16
3.1	Syste	m Requirements	16
3.2	Instal	ling the AP	16
Chapter	4.Quick	Installation Guide	18
4.1	Manu	al Network Setup TCP/IP Configuration	
	4.1.1	Configuring the IP Address Manually	18
4.2	Starti	ng Setup in the Web UI	22
Chapter	5.Config	guring the AP	23
5.1	Wizar	d	24
5.2	Gatew	vay Mode (Router)	25
	5.2.1	WAN Settings	
	5.2.2	Wireless	
5.3	Repea	ater Mode (Universal Repeater)	
5.4	AP Mo	ode	
5.5	Wi-Fi.		
	5.5.1	2.4GHz/5GHz Wi-Fi	
	5.5.2	MAC ACL	41
	5.5.3	Wi-Fi Timer Off	
	5.5.4	Advanced	
	5.5.5	Network	
	5.5.6	Firewall	53
	5.5.7	Manage	
Chapter	6.Quick	Connection to a Wireless Network	74
6.1	Windo	ows XP (Wireless Zero Configuration)	74
6.2	Windo	ows 7/8/10 (WLAN AutoConfig)	76
6.3	Mac C	DS X 10.x	79
6.4	iPhon	e/iPod Touch/iPad	84
Appendi	x A: Pla	net Smart Discovery Utility	

Appendix B: FAQs	89
Q1: How to Set Up the AP Client Connection	89
Appendix C: Troubleshooting	96
Appendix D: Glossary	98

FIGURE

FIGURE 2-1 WDAP-C1800AX TRIPLE VIEWING	13
FIGURE 2-2 WDAP-C1800AX FRONT PANEL	14
FIGURE 2-3 WDAP-C1800AX REAR PANEL	15
FIGURE 3-1 MOUNTING THE BRACKET	16
FIGURE 3-2 CONNECTING THE ETHERNET CABLE	17
FIGURE 3-3 CONNECTING THE POE INJECTOR	17
FIGURE 4-1 TCP/IP SETTING	
FIGURE 4-2 WINDOWS START MENU	
FIGURE 4-3 SUCCESSFUL RESULT OF PING COMMAND	
FIGURE 4-4 FAILED RESULT OF PING COMMAND	
FIGURE 4-5 LOGIN BY DEFAULT IP ADDRESS	
FIGURE 4-6 LOGIN WINDOW	
FIGURE 5-1 MAIN MENU	
FIGURE 5-2 OPERATION MODE	
FIGURE 5-3 GATEWAY MODE	
FIGURE 5-4 GATEWAY STATIC IP	
FIGURE 5-5 GATEWAY – PPPOE	
FIGURE 5-6 GATEWAY – DHCP	
FIGURE 5-7 GATEWAY – WIRELESS	
FIGURE 5-8 REPEATER MODE	
FIGURE 5-9 REPEATER MODE SCAN ROOT AP	
FIGURE 5-10 REPEATER MODE – SETTING UP WI-FI	
FIGURE 5-11 REPEATER MODE – SETTING UP DEVICE IP	
FIGURE 5-12 AP MODE	
FIGURE 5-13 AP MODE – SET UP WI-FI	
FIGURE 5-14 BASIC	
FIGURE 5-15 VAP	
FIGURE 5-16 MAC ACL	
FIGURE 5-17 ACL STATUS	
FIGURE 5-18 WI-FI TIMER OFF	
FIGURE 5-19 ADVANCED	
FIGURE 5-20 LAN SETTINGS (AP/GATEWAY MODE)	
FIGURE 5-21 VLAN SETTINGS	
FIGURE 5-22 STATIC IP	
FIGURE 5-23 PPPOE	
FIGURE 5-24 DHCP	
FIGURE 5-25 WAN ADVANCED SETTINGS	
FIGURE 5-26 URL FILTERING	
FIGURE 5-27 URL FILTERING	
FIGURE 5-28 IP/PORT FILTERING	
FIGURE 5-29 IP/PORT FILTERING	
FIGURE 5-30 MAC FILTERING	

FIGURE 5-31 MAC FILTERING	
FIGURE 5-32 PORT MAPPING	
FIGURE 5-33 PORT MAPPING	
FIGURE 5-34 DMZ	
FIGURE 5-35 CONFIGURE	
FIGURE 5-36 TIMED REBOOT	
FIGURE 5-37 UPGRADE FIRMWARE	61
FIGURE 5-38 SETTING SYSTEM TIME	
FIGURE 5-39 LOG	
FIGURE 5-40 QOS	
FIGURE 5-41 ENABLE OR DISABLE QOS RULE	
FIGURE 5-42 ADDING RULE OF QOS (SPEED LIMIT)	
FIGURE 5-43 IP GROUP	
FIGURE 5-44 ADD IP GROUP	
FIGURE 5-45 TIME GROUP	
FIGURE 5-46 ADD TIME GROUP	
FIGURE 5-47 DDNS SETTING	
FIGURE 5-48 PLANET EASYDDNS	
FIGURE 5-49 MODIFY PASSWORD	71
FIGURE 5-50 DEVICE REBOOT	
FIGURE 5-51 LOGOUT	
FIGURE 6-1 SYSTEM TRAY – WIRELESS NETWORK ICON	
FIGURE 6-2 CHOOSING A WIRELESS NETWORK	
FIGURE 6-3 ENTERING THE NETWORK KEY	
FIGURE 6-4 CHOOSING A WIRELESS NETWORK CONNECTED	
FIGURE 6-5 NETWORK ICON	
FIGURE 6-6 WLAN AUTOCONFIG	
FIGURE 6-7 TYPING THE NETWORK KEY	
FIGURE 6-8 CONNECTING TO A NETWORK	77
FIGURE 6-9 CONNECTED TO A NETWORK	
FIGURE 6-10 MAC OS – NETWORK ICON	
FIGURE 6-11 HIGHLIGHTING AND SELECTING THE WIRELESS NETWORK	
FIGURE 6-12 ENTER THE PASSWORD	
FIGURE 6-13 CONNECTED TO THE NETWORK	
FIGURE 6-14 SYSTEM PREFERENCES	
FIGURE 6-15 SYSTEM PREFERENCES NETWORK	
FIGURE 6-16 SELECTING THE WIRELESS NETWORK	
FIGURE 6-17 IPHONE – SETTINGS ICON	
FIGURE 6-18 WI-FI SETTING	
FIGURE 6-19 WI-FI SETTING – NOT CONNECTED	
FIGURE 6-20 TURNING ON WI-FI	
FIGURE 6-21 IPHONE ENTERING THE PASSWORD	
FIGURE 6-22 IPHONE CONNECTED TO THE NETWORK	



Chapter 1. Product Introduction

1.1 Package Contents

Thank you for choosing PLANET WDAP-C1800AX Wireless AP. Please verify the contents inside the package box.

	Package Contents	of WDAP-C1800AX	
WDAP-C1800AX	Quick Guide	Ethernet Cable	Mounting-Kit
-	Court Brond BO 2 13 to 1 (0 Othor by C Calling allowed) How and Bood BO 2 10 to 1 (0 Othor by C Calling allowed) How and Bood BO 2 10 to 1 (0 Othor by C Calling allowed) How and Bood BO 2 10 to 1 (0 Othor by C Calling allowed) How and Bood BO 2 10 to 1 (0 Othor by C Calling allowed) How and Bood BO 2 10 to 1 (0 Othor by C Calling allowed) How and Bood BO 2 10 to 1 (0 Othor by C Calling allowed) How and Bood BO 2 10 to 1 (0 Othor by C Calling allowed) How and Bood BO 2 10 to 1 (0 Othor by C Calling allowed) How and Bood BO 2 10 to 1 (0 Othor by C Calling allowed) How and Bood BO 2 10 to 1 (0 Othor by C Calling allowed) How and Bood BO 2 10 to 1 (0 Othor by C Calling allowed) How and Bood BO 2 10 to 1 (0 Othor by C Calling allowed) How and Bood BO 2 10 to 1 (0 Othor by C Calling allowed) How and Bood BO 2 10 to 1 (0 Othor by C Calling allowed) How and Bood BO 2 10 to 1 (0 Othor by C Calling allowed) How and Bood BO 2	U	



If there is any item missing or damaged, please contact the seller immediately.





1.2 Product Description

Ultra-high-speed Wi-Fi 6 Wireless LAN Solution

PLANET WDAP-C1800AX **1800Mbps Dual Band 802.11ax Wireless AP**, supporting **MU-MIMO**, **Wave 2.0**, **OFDMA and Seamless Roaming technology**, provides a maximum wireless speed of 1200Mbps in the 5GHzHz band and 600Mbps in the 2.4GHzHz band. The maximum number of client users is up to 250, ensuring more secure and robust connectivity with the adoption of Wi-Fi 6 technology.



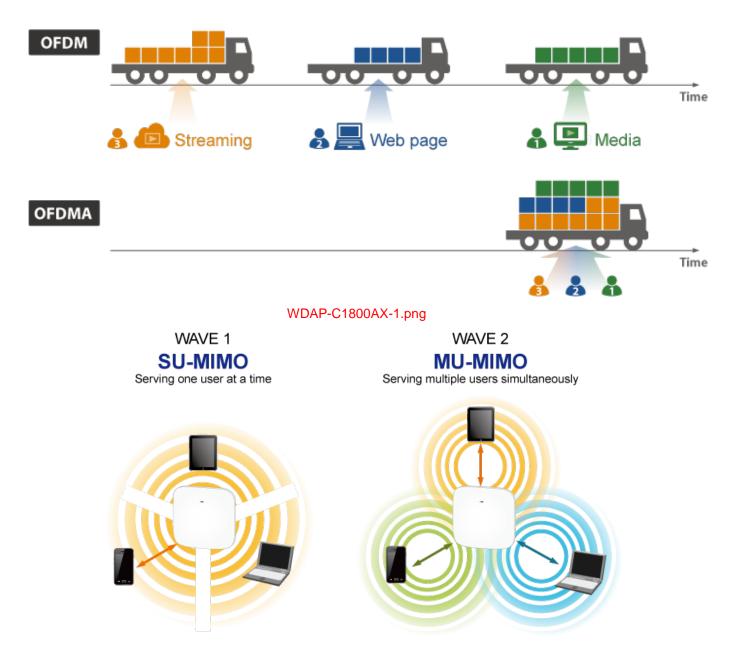
Benefits of MU-MIMO, Wave 2, OFDMA and Seamless Roaming

The WDAP-C1800AX can be installed in public areas such as hotspots, airports and conferences as OFDMA, a multi-user version of OFDM, enables the concurrent AP to communicate (uplink and downlink) with multiple clients by assigning subsets of subcarriers called resource units (RUs) to the individual clients. With MU-MIMO and Seamless Roaming technologies, it provides a better Wi-Fi user experience, reducing the likelihood of users turning off Wi-Fi and putting more load on the cellular network. These technologies also can solve Wi-Fi congestion issues in open work spaces and conference rooms. The WDAP-C1800AX can offer more powerful throughput coverage of up to 250 client users.

OFDMA (Orthogonal Frequency Division Multiple Access) Benefits

- Helps transmit small and large packets together to reduce bandwidth burden and improve data transmission performance
- Transmitting data at the same time can effectively reduce the transmission delay for longer frame and low-speed transmission.
- Improves the overall traffic quality, and effectively uses bandwidth in an environment where multiple people use the Internet.
- Increases the number of devices that can be connected to the AP.
- Reduces the power consumption of the device by way of the use of low bandwidth.

A 75% Reduction in Delays

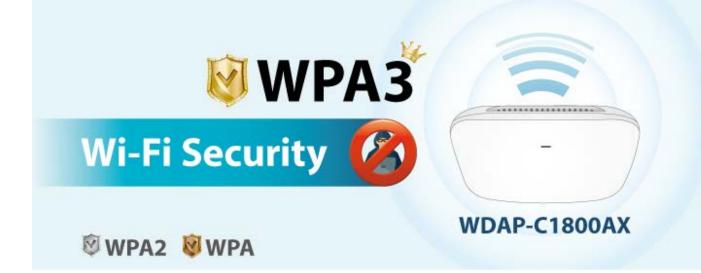


WPA3 Next Generation Security for Your WLAN Solution

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.

* WDAP-C1800AX only supports WPA3-Personal.

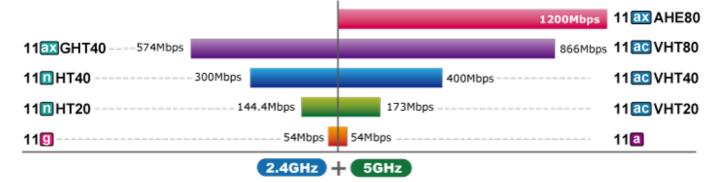




Super Power Dual band WLAN Solution

PLANET WDAP-C1800AX, adopting the IEEE 802.11ax Wi-Fi 6 standard, provides a high-speed transmission. The maximum wireless speed in 2.4GHzHz band is up to 11AXG_GHE40 of 574Mbps, and in the 5GHzHz band is up to 11AXA_AHE80 of 1201Mbps. Both the **2.4GHzHz and 5GHzHz** wireless connections can also be used simultaneously. Furthermore, the WDAP-C1800AX adopts the high-class Qualcomm Atheros SoC (System-on-a-Chip), which provides higher stability to meet the stringent requirements of the solution.

Faster Data Rate than That of 11ac by 37%

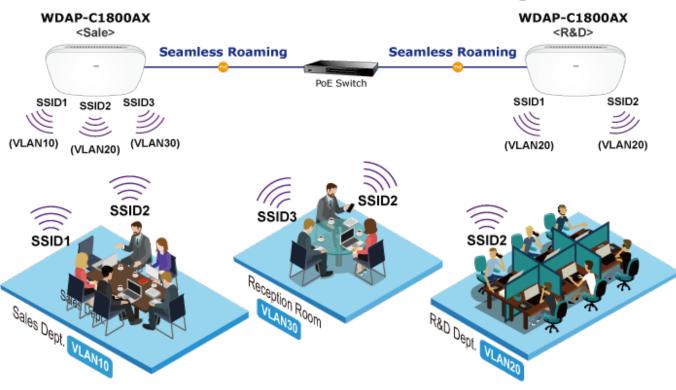


WDAP-C1800AX Data Transmission Rates 1800Mbps

Advanced Security and Rigorous Authentication

The WDAP-C1800AX supports WPA/WPA2PSK-TKIPAES and WPA3PSK-TKIPAES wireless encryptions, and also supports the WPA2/WPA3PSK-TKIPAES at the same time, 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.

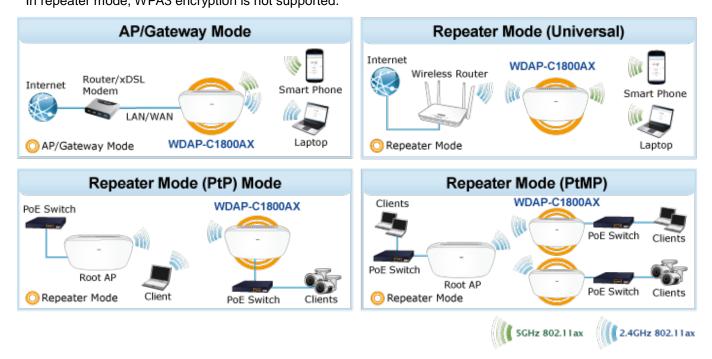




Multi-SSIDs + VLAN + Seamless Roaming

Multiple Operation Modes for Various Applications

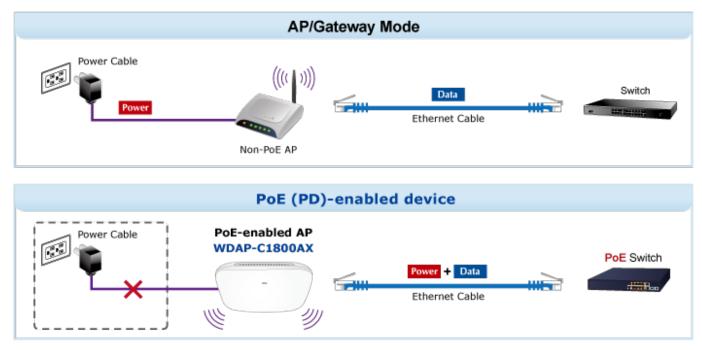
The WDAP-C1800AX supports the simplified usage modes of AP, Gateway and Repeater, through which they provide more flexibility for users when wireless network is established. Compared with general wireless access points, the WDAP-C1800AX offers more powerful and flexible capability for wireless clients. * In repeater mode, WPA3 encryption is not supported.





Ceiling-mount Design for Your Environment

With the standard IEEE802.3at Power over Ethernet (PoE) design, the WDAP-C1800AX 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-C1800AX 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-C1800AX 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-C1800AX 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 scheduling reboot setting, the WDAP-C1800AX is easy for the administrator to deploy and manage without on-site maintenance.

Setup Wizard for Multiple Modes

Wi-Fi Channel Analyzer

Home Dashboard for Wi-Fi Status

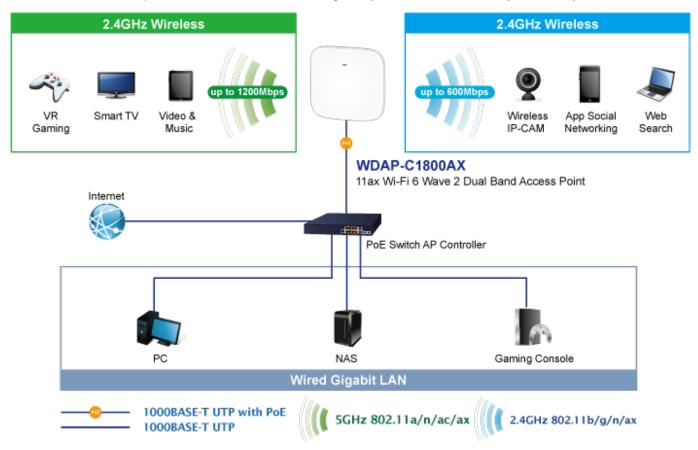




Applications

Extreme High Speed and Wi-Fi 6 Technology Make Wireless Transmission More Powerful

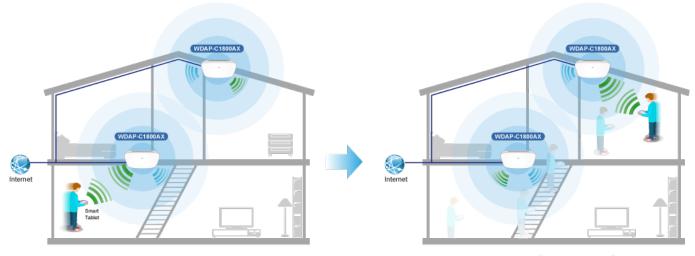
The WDAP-C1800AX delivers the dual band and more bandwidth to avoid signal interference and ensure the best Wi-Fi performance. It allows you to check e-mails and surf the Internet via the 2.4GHzHz band and simultaneously watch full high-definition (HD) video or any other multimedia application via one 5GHzHz band. Besides, many client users can be connected to Wi-Fi at the same time. The maximum number of client users is up to 250. Moreover, the Gigabit Ethernet port of the WDAP-C1800AX offers ultra-fast wired connections that utilize the maximum wireless bandwidth; therefore, users will experience a fast wireless speed of over 650Mbps. With the outstanding stability of high-speed wireless transmission, the WDAP-C1800AX can provide users with excellent experience in multimedia streaming with your mobile devices anywhere, anytime.



Seamless Roaming and Better Coverage

Moving between a traditional Wi-Fi AP or router and range extender, your Wi-Fi signal can experience lag or a dropped connection. With Seamless Roaming and intuitive technology, moving from room to room is never a problem now that your devices are switched to the strongest Wi-Fi signal automatically. The WDAP-W1800AX features advanced 2T2R MU-MIMO technology which reduces the effect of dead spot, so that it can get better coverage of the existing wireless network. Furthermore, the repeater mode supported by the WDAP-W1800AX helps to minimize the effort of installation, thus reducing cabling cost.





SGHz 802.11a/n/ac/ax





1.3 Product Features

Industrial Compliant Wireless LAN

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

RF Interface Characteristics

- 802.11ax 2T2R architecture with data rate of up to 1800Mbps (600Mbps in 2.4GHzHz and 1200Mbps in 5GHzHz)
- High output power with multiply-adjustable transmit power control

Multiple Operation Modes and Wireless Features

- Multiple operation modes: AP, gateway and repeater
- Supports OFDMA (orthogonal frequency division multiple access)
- Supports MU-MIMO (multi-user multiple-input multiple-output), Wave 2.0
- 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 Seamless Roaming with 802.11k, 802.11v, and 802.11r

Secure Network Connection

- Full encryption supported: WPA/WPA2PSK-TKIPAES, WPA3PSK-TKIPAES, WPA2/WPA3PSK-TKIPAES
- 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
- Gateway mode supports PLANET DDNS/Easy DDNS



Product Specifications

Product	WDAP-C1800AX			
	Dual Band 802.11ax 1800Mbps Ceiling-mount Wireless Access Point			
Hardware Specifications				
Interfaces	LAN 2 x 10/100/1000BASE-T RJ45 port Auto-negotiation and auto MDI/MDI-X			
Antennas	Gain: 4 x Internal 5dBi antenna (2.4GHz x2, 5GHz x2)			
Reset Button	Reset button on the rear side (Press over 5 seconds to reset the device to factory default)			
LED Indicators	Power, SYS			
Dimensions (W x D x H)	186 x 186 x 35.8 mm			
Weight	380 ± 5GHz			
Power Requirements	48V DC IN, 0.5A, IEEE 802.3at PoE+ or 12V DC IN, 2.0A from DC Jack (5.5 x 2.1mm)			
Power Consumption	< 22W			
Mounting	Ceiling Mount			
Wireless Interface Speci	fications			
Standard	IEEE 802.11ax IEEE 802.11ac IEEE 802.11n IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11i IEEE 802.3 10BASE-T IEEE 802.3 u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3x flow control IEEE 802.11k, 802.11v, and 802.11r			
Media Access Control	CSMA/CA			
Data Modulation	802.11ax: MIMO-OFDMA (BPSK / QPSK / 16QAM / 64QAM / 256QAM, 1024QAM) 802.11ac: MIMO-OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11b: DSSS (DBPSK / DQPSK / CCK)			
Band Mode	2.4GHz / 5GHz concurrent mode			
Frequency Range	2.4GHzHz: FCC: 2.412~2.462GHz ETSI: 2.412~2.472GHz 5GHzHz: FCC: 5.180~5.240GHz, 5.745~5.825GHzHz ETSI: 5.180~5.700GHz			
Operating Channels	FCC: 36, 40, 44, 48, 52,54,60,64,149, 153, 157, 161, 165 (9 Channels) ETSI: 36, 40, 44, 48, 52,54,60,64,100, 104, 108, 112, 116, 132, 136, 140 (12			



	Channels)			
	5GHzHz channe regulations.	l list may vary in	different countries according to their	
Max. Transmit Powe	·			
(dBm)	ETSI: < 19dBm (EIRP)			
	Network Mode	Data Rate	Receive Sensitivity (dBm)	
	2.4GHzHz			
	802.11b	1Mbps	-98	
		11Mbps	-90	
	802.11g	6Mbps	-93	
		54Mbps	-77	
	802.11n HT20	MCS0	-92	
		MCS7	-72	
	802.11n HT40	MCS0	-90	
		MCS7	-70	
	802.11ax HT20	MCS0	-93	
		MCS11	-63	
	802.11ax HT40	MCS0	-91	
		MCS11	-60	
	5GHzHz			
	802.11a	6Mbps	-95	
Receive Sensitivity		54Mbps	-77	
	802.11n HT20	MCS0	-93	
		MCS7	-75	
	802.11n HT40	MCS0	-91	
		MCS7	-72	
	802.11ac HT20	MCS0	-93	
		MCS7	-74	
	802.11ac HT40	MCS0	-91	
		MCS7	-72	
	802.11ac HT80	MCS0	-88	
		MCS9	-62	
	802.11ax HT20	MCS0	-93	
		MCS11	-63	
802.11ax HT40	MCS0	-90		
	502.110.11140	MCS11	-60	
	802.11ax HT80	MCS0	-87	
		MCS11	-56	
Software Features				
	Static IP / Dynami	c IP		
LAN	Supports IP MAC	binding		
WAN	Static IP			



	Dynamic IP		
	PPPoE		
	Access Point		
Wireless Mode	Gateway		
	Repeater		
Channel Width	20MHz, 40MHz, 80MHz		
Encryption Security	WPA/WPA2PSK-TKIPAES, WPA3PSK-TKIPAES, WPA2/WPA3PSK-TKIPAES		
	Enable/Disable SSID Broadcast		
Wireless Security	Wireless Max. 32 MAC address filtering		
	User Isolation		
Max. SSIDs	8 (4 per radio)		
Max. Clients	250 per radio (200 is suggested, depending on usage)		
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		
	Wi-Fi channel analysis chart		
	Seamless Roaming		
	Device status, wireless client List		
	PLANET Smart Discovery		
Status Monitoring	DHCP client table		
	System Log supports remote syslog server		
	IEEE 802.1Q VLAN (VID: 1~4094)		
VLAN	SSID-to-VLAN mapping to 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		
Environment & Certifica	tion		
Temperature	Operating: 0 ~ 55 degrees C		
remperature	Storage: -40 ~ 70 degrees C		
Humidity	Operating: 10 ~ 90% (non-condensing)		
namany	Storage: 5 ~ 90% (non-condensing)		
Regulatory	CE, RoHS		



Chapter 2. Hardware Installation

2.1 Product Outlook

WDAP-C1800AX

- Dimensions: 186 x 186 x 35.8mm
- Weight: 380 ±5GHz
- Triple Viewing



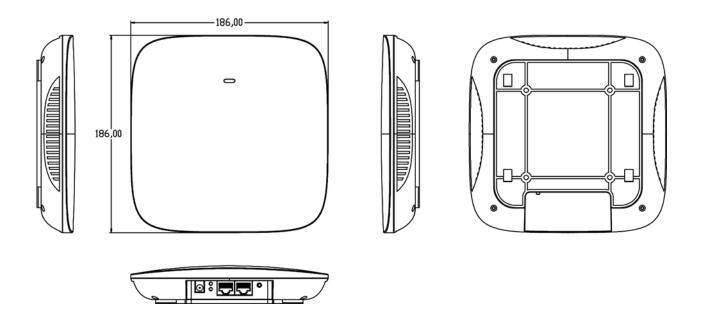
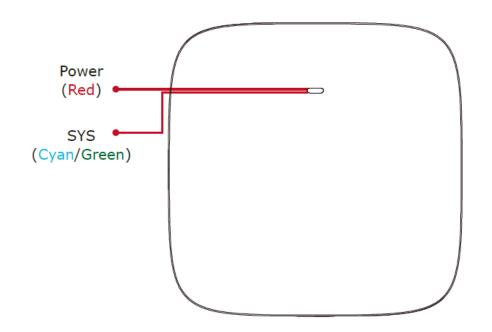
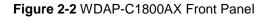


Figure 2-1 WDAP-C1800AX Triple Viewing



Front Panel



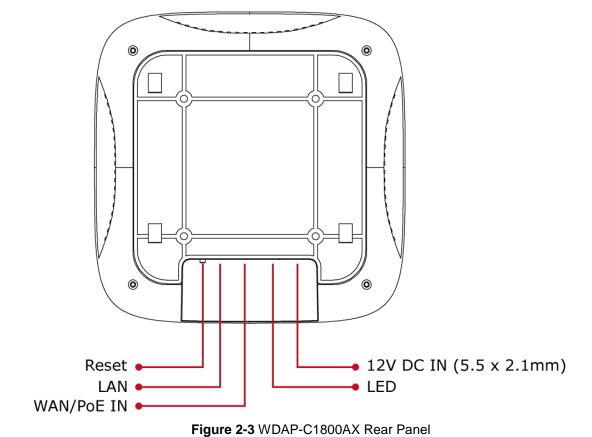


LED Definition

LED	STATUS	FUNCTION
On (Red)	On(Red)	The access point is on.
PWR	Off	System is operating.
	On	Wireless LAN is initializing.
SYS	Blinking (Cyan/Green)	2.4GHzHz/5GHzHz wireless LAN is
	Dinking (Cyan/Green)	working.



Rear Panel



Bottom Panel

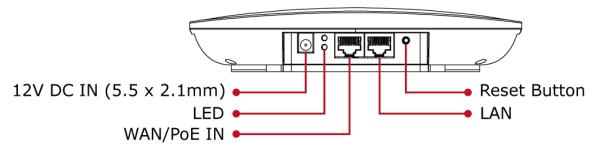


Figure 2-4 WDAP-C1800AX Bottom Par	۱el
------------------------------------	-----

Port definition

Object	Description	
12V DC	12V DC port for the power adapter(DC-Jack 5.5 x 2.1mm)	
LED	The access point is on.	
PoE	LAN port with Power over Ethernet (PoE) IN	
LAN	LAN port connecting to the network equipment.	
Reset	To restore to the factory default setting, press and hold the Reset Button for	
	about 15 seconds, and then release it.	



Chapter 3. Connecting to the AP

3.1 System Requirements

- Broadband Internet Access Service (Cable/xDSL/Ethernet connection)
- One IEEE 802.3at PoE switch (supply power to the WDAP-C1800AX)
- PCs with a working Ethernet adapter and an Ethernet cable with RJ45 connectors
- PCs running Windows 98/ME, NT4.0, 2000/XP, Windows Vista / Win 7, MAC OS 9 or later, Linux, UNIX or other platforms compatible with TCP/IP protocols

The AP in the following instructions refers to PLANET WDAP-C1800AX.
 It is recommended to use Internet Explorer 11, Firefox or Chrome to access the AP.

3.2 Installing the AP

Before installing the AP, make sure your PoE switch is connected to the Internet through the broadband service successfully at this moment. If there is any problem, please contact your local ISP.

Please install the AP according to the following steps. Don't forget to pull out the power plug and keep your hands dry.

Step 1. Take the mounting bracket, put it on the target place by aligning the holes and fix it with the supplied screws.

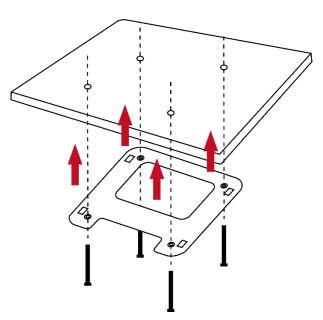


Figure 3-1 Mounting the Bracket



Step 2. Load the device into the mounting bracket, and be sure the device is mated with fixed screws. Then, lock the device in position and plug the Ethernet cable into the WDAP-C1800AX.

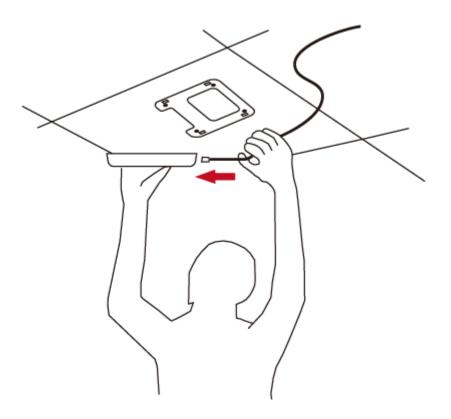


Figure 3-2 Connecting the Ethernet Cable

Step 3. Plug the other end of the Ethernet cable into the PoE switch.

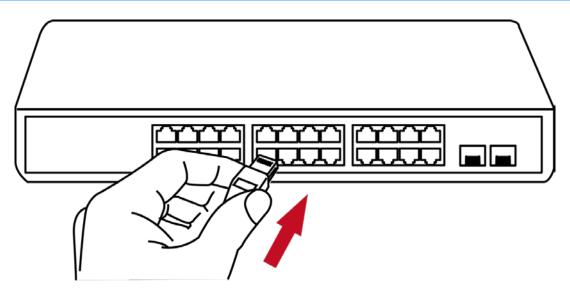


Figure 3-3 Connecting the PoE Injector



Chapter 4. Quick Installation Guide

This chapter will show you how to configure the basic functions of your AP within minutes.



A computer with wired Ethernet connection to the Wireless AP is required for the first-time configuration.

4.1 Manual Network Setup -- TCP/IP Configuration

The default IP address of the WDAP-C1800AX is **192.168.1.253**. And the default subnet mask is 255.255.255.0. These values can be changed as you want. In this guide, we use all the default values for description.

Connect the WDAP-C1800AX with your PC by plugging one end of an Ethernet cable in the LAN port of the AP and the other end in the LAN port of PC. The WDAP-C1800AX is powered by a PoE switch.

In the following sections, we'll introduce how to install and configure the TCP/IP correctly in **Windows 10**. And the procedures in other operating systems are similar. First, make sure your Ethernet Adapter is working, and refer to the Ethernet adapter manual if needed.

4.1.1 Configuring the IP Address Manually

Summary:

- Set up the TCP/IP Protocol for your PC.
- Configure the network parameters. The IP address is 192.168.1.xxx (If the default IP address of the WDAP-C1800AX is 192.168.1.253, and the DSL router is 192.168.1.254, the "xxx" can be configured to any number from 1 to 252.) and subnet mask is 255.255.255.0.
- 1 Select **Use the following IP address**, and then configure the IP address of the PC.
- 2 For example, the default IP address of the WDAP-C1800AX is 192.168.1.253 and the DSL router is 192.168.1.254, or you may choose from 192.168.1.1 to 192.168.1.252.



	d automatically if your network supports need to ask your network administrator
🔘 Obtain an IP address auto	matically
• Use the following IP addre	ss:
IP address:	192.168.1.100
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	1) (2) (2)
Obtain DNS server addres	s automatically
Use the following DNS service	ver addresses:
Preferred DNS server:	D (11) M
Alternate DNS server:	
	C.
	Advanced

Figure 4-1 TCP/IP Setting

Now click $\ensuremath{\text{OK}}$ to save your settings.

Now, you can run the ping command in the **command prompt** to verify the network connection between your PC and the AP. The following example is in **Windows 10** OS. Please follow the steps below:

- 1. Click on **Start > Run**.
- 2. Type "**cmd**" in the Search box.



	e D ©	Filters \lor
ඛ	Best match	
	Command Prompt Desktop app	
	Documents (3+)	
#151K		
<u>چ</u>		
£		
	רשל cmd	

Figure 4-2 Windows Start Menu

- 3. Open a command prompt, type ping **192.168.1.253** and then press **Enter**.
 - If the result displayed is similar to Figure 4-3, it means the connection between your PC and the AP has been established well.

Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601] Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:∨ping 192.168.1.253
Pinging 192.168.1.253 with 32 bytes of data:
Reply from 192.168.1.253: bytes=32 time=17ms TTL=64
Reply from 192.168.1.253: bytes=32 time=18ms TTL=64
Reply from 192.168.1.253: bytes=32 time=18ms TTL=64
Reply from 192.168.1.253: bytes=32 time=18ms TTL=64
Ping statistics for 192.168.1.253:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 17ms, Maximum = 18ms, Average = 17ms
C: >_
· · · · · · · · · · · · · · · · · · ·

Figure 4-3 Successful Result of Ping Command



If the result displayed is similar to Figure 4-4, it means the connection between your PC and the AP has failed.

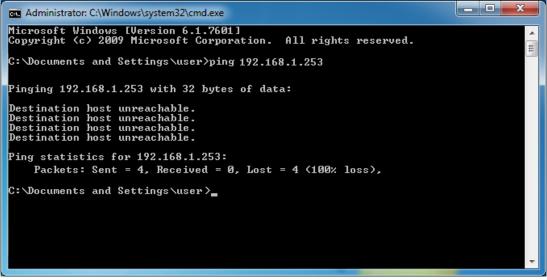


Figure 4-4 Failed Result of Ping Command

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your AP. Some firewall software programs may block a DHCP request on newly installed adapters.



4.2 Starting Setup in the Web UI

It is easy to configure and manage the AP with the web browser.

Step 1. To access the configuration utility, open a web-browser and enter the default IP address http://192.168.1.253 in the web address field of the browser.



After a moment, a login window will appear. Enter admin for the password in lower case letters. Then click

LOGIN or press the Enter key.



Figure 4-6 Login Window

Default IP Address: 192.168.1.253

Default Password: admin



If the above screen does not pop up, it may mean that your web browser has been set to a proxy. Go to Tools menu> Internet Options> Connections> LAN Settings on the screen that appears, uncheck **Using Proxy** and click **OK** to finish it.



Chapter 5. Configuring the AP

This chapter delivers a detailed presentation of AP's functionalities and features 3 main items below, allowing you to manage the AP with ease.

2	Mode AP Mode	Flow(5G)		A	P Up Stream -O-	- AP Down Stream	-0-
me		18Kbps					
÷		15Kbps			\wedge		
ard	(12Kbps					
		9Kbps					
FI) 6Kbps			\square		
2						1	
		3Kbps					
work	Uptime 04:00:05	0	12-02-50	12:02:55		12.02.00	12.0
vork	Uptime 04:00:05		13:02:50	13:02:55		13:03:00	13:0
vork	Uptime 04:00:05	0	13:02:50	13:02:55	2G WiFi	13:03:00 5G WIFI	13:
vork		0		13:02:55 Get IP From Gateway			13:0
		0 13:02:45	Lan Info Connection IP Address	Get IP From Gateway 10.1.20.12	2G WiFi Status SSID	5G WIFi On 1 Wi-Fi 6_5GHz	13:0
work	Device Info	0 13:02:45	Lan Info Connection	Get IP From Gateway	2G WiFi Status	5G WiFi On	

Figure 5-1 Main Menu

The page includes the following fields:

Object	Description
Mode	It shows the current mode status.
Device Info	It shows the CPU/memory usage.
Device Description	You can enter the device description.
Flow (2.4G/5G Wi-Fi)	It shows the Upstream/Downstream graph.
Lan Info	It shows the device IP mode, LAN IP, subnet, gateway and MAC address.
Wi-Fi Info	It shows the Wi-Fi status, SSID, channel, Encrypt, MAC address and client list.
Version	It shows the firmware version (Double-click to show more detailed info.)



5.1 Wizard

The Wizard guides you to configuring the WDAP-C1800AX in a different mode, including Gateway, Repeater and AP modes.

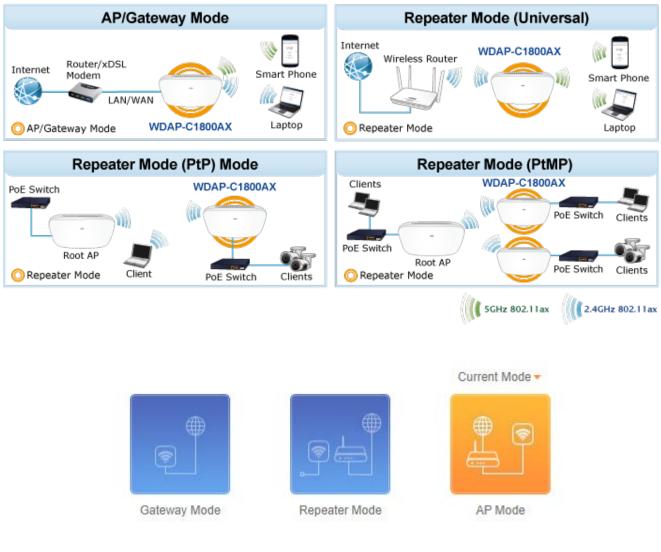


Figure 5-2 Operation Mode



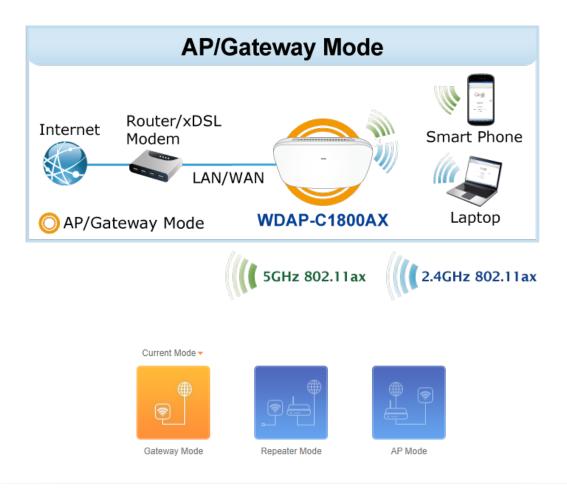
The default operation mode is AP Mode.





5.2 Gateway Mode (Router)

Click "Wizard" \rightarrow "Gateway Mode" and the following page will be displayed. This section allows you to configure the Gateway mode.



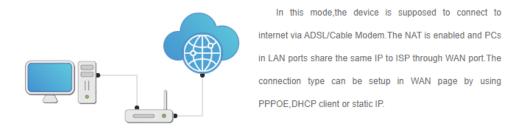


Figure 5-3 Gateway Mode



5.2.1 WAN Settings

Static IP

If your ISP offers you static IP Internet connection type, select "**Static IP**" and then enter IP address, subnet mask, default gateway and primary DNS information provided by your ISP in the corresponding fields.

Gateway Mode		×
1	2	3
🚖 WAN		
Internet Mode	Static IP 🗸	
IP Address	0.0.0.0	
Subnet	255.255.255.0	
Gateway	0.0.0.0	
Primary DNS	8.8.8.8	
Secondary DNS	8.8.4.4	
	Next	

Figure 5-4 Gateway -- Static IP

The page includes the following fields:

Object	Description
Internet Mode	Select static IP or DHCP or PPPoE mode to connect to internet
IP Address	Enter the WAN IP address provided by your ISP. Enquire your ISP if you are not clear
Subnet	Enter WAN Subnet Mask provided by your ISP
Gateway	Enter the WAN Gateway address provided by your ISP
Primary DNS	Enter the necessary DNS address provided by your ISP, or not
Secondary DNS	Enter the secondary DNS address provided by your ISP, or not



PPPoE (ADSL)

Select **PPPOE** if your ISP is using a PPPoE connection and provide you with PPPoE user name and password info.

Gateway Mode	×
1	2 3
😄 WAN	
Internet Mode	PPPoE ~
Username	Please enter account.
Password	Please enter password.
Server Name	No Need, Don't fill
Service Name	No Need, Don't fill
	Next

Figure 5-5 Gateway - PPPoE

The page includes the following fields:

Object	Description
Username	Enter the PPPoE User Name provided by your ISP
Password	Enter the PPPoE password provided by your ISP
Server Name	Enter the server name provided by your ISP, or not
Service Name	Enter the service name provided by your ISP, or not



DHCP

Choose "**DHCP**" and the router will automatically obtain IP addresses, subnet masks and gateway addresses from your ISP.

Gateway Mode				×
1		2		- 3
🗮 WAN				
	Internet Mode	DHCP	~	



5.2.2 Wireless

Gateway Mode	×
0	2 3
🚖 2G WiFi	
WiFi Status	
SSID	PLANET_2.4GHz
	Hide WiFi SSID?
Wireless Mode	11AXG_GHE40 V
Channel	Auto
Encrypt	WPA3PSK-TKIPAES V
Password	77777777
	Back Next



Gateway Mode		×
0	⊘	3
🚖 5G WiFi		
WiFi Status		
SSID	PLANET_5GHz]
	Hide WiFi SSID?]
Wireless Mode	11AXA_AHE80 V]
Channel	112 ~]
Encrypt	WPA3PSK-TKIPAES V	
Password	777777777)
Timed Reboot		
Restart Interval	1Day 🗸	
	Back Next	

Figure 5-7 Gateway – Wireless

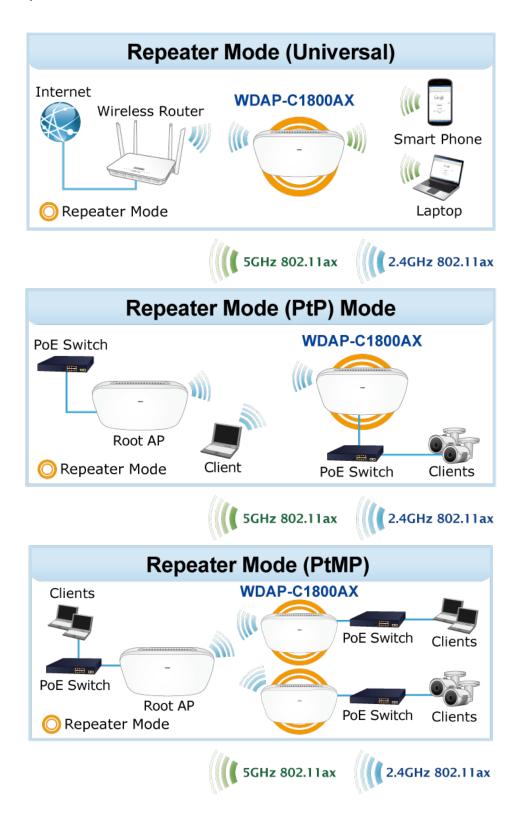
The page includes the following fields:

Object	Description
Wi-Fi Status	Select ON (Blue) or OFF (Gray) to enable or disable wireless LAN
SSID	It is the wireless network name. The default SSID is "PLANET_2.4G" and "PLANET_5G"
Hide WiFi SSID?	Select check box to hide wireless LAN or not
Wireless Mode	Select Wi-Fi mode for 802.11a/b/g/n/ac/ax, channel width, " 20MHz " or " 40MHz " or " 80MHz ".
Channel	Select the operating channel you would like to use. The channel range will be changed by selecting a different domain.
Encryption	Select the wireless encryption. The default is None
Password	Enter the password of Wi-Fi
Timed Reboot	Select ON (Blue) or OFF (Gray) to restart for clock
Restart Interval	Set time to restart for day (1 to 10 Days)



5.3 Repeater Mode (Universal Repeater)

Click "Wizard" \rightarrow "Repeater Mode" and the following page will be displayed. This section allows you to configure the Repeater mode.





Repeater Mode		×
12	3	
🔄 Repeater		
Select Radio	Use 2G \lor	
SSID	WirelessAp Scan	
Lock BSSID	00:00:00:00:00	
Wireless Mode	11AXG_GHE40 V	
Encrypt	WPA/WPA2PSK-TKIPAES ~	
Password	77777777	
P2P		
	Next	

Figure 5-8 Repeater Mode

Object	Description
Select Radio	Select "2.4GHz" or "5GHz" wireless LAN.
SSID	Enter the root AP's SSID or press " Scan " to select.
Lock BSSID	Check to lock the root AP's MAC address.
Wireless Mode	Select Wi-Fi mode for 802.11a/b/g/n/ac/ax, channel width, "20MHz" or "40MHz" or "80MHz".
Encryption	Select the wireless encryption of root AP. The default is "NONE".
Password	Enter the password of root AP.
P2P	Enable switch for Point to Point function.

Press Scan to show the root AP that you need to repeat and press Choice to select the AP.



Repea	ter Mode	×
1	Wireless List C ×	4
++	10F_2.4G_Test Site Channel[7] MAC[44:D1:FA:77:E4:87] Signal[-29dBm] WPA/WPA2PSK-TKIPAES	-
	STDY Channel[1] MAC[00:30:4F:9F:D7:5E] Signal[-42dBm] WPA3PSK-TKIPAES	
	VAP_2G Channel[6] MAC[00:03:0F:65:D2:80] Signal[-53dBm] WPA/WPA2PSK-TKIPAES	
	C7200E Channel[1] MAC[A8:F7:E0:46:24:0A] Signal[-59dBm] WPA/WPA2PSK-TKIP	
	Next	

Figure 5-9 Repeater Mode -- Scan Root AP



Set up the repeater wireless network

Repeater Mode	×
2	3 4
🚖 2G WiFi	
WiFi Status	
SSID	Wi-Fi 6_2.4GHz
	Hide WiFi SSID?
Encrypt	
Password	7777777
	Back Next
Repeater Mode	×
Repeater Mode	
o o	3 4
Repeater Mode	
o o	
✓ ✓ ★ 5G WiFi	
SG WiFi WiFi Status	3 4
SG WiFi WiFi Status	34
 ✓ ✓ ✓ 5G WiFi WiFi Status SSID 	34
SSID	3 4
 ✓ ✓	3 4
 ✓ ✓	34
 ✓ ✓	34
 ✓ ✓	34

Figure 5-10 Repeater Mode - Setting up Wi-Fi



Object	Description
Wi-Fi Status	Select ON (Blue) or OFF (Gray) to enable or disable wireless LAN.
SSID	It is the wireless network name. The default SSID is " PLANET_2.4G " and " PLANET_5G ".
Hide WiFi SSID?	Select check box to hide wireless LAN or not
Encryption	Select the wireless encryption. The default is "None".
Password	Enter the password of Wi-Fi
Timed Reboot	Select ON (Blue) or OFF (Gray) to restart for clock
Restart Interval	Set time to restart for day (1 to 10 Days)

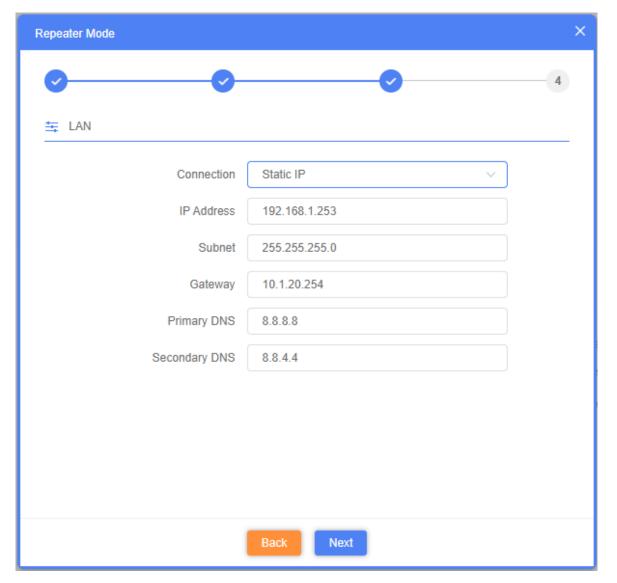


Figure 5-11 Repeater Mode – Setting up device IP



Object	Description
Connection	Select "Static IP" or "DHCP Client" for setting up device IP.
IP Address	Enter the AP static IP address.
Subnet	Enter the network mask.
Gateway	Enter the default gateway IP address.
Primary DNS	Enter the primary DNS IP address, or not.
Secondary DNS	Enter the secondary DNS IP address, or not.

Enter the LAN IP address.



5.4 AP Mode

In the AP mode, the AP wireless interface and cable interface bridge together. Click "Wizard" \rightarrow "AP Mode" and the following page will be displayed. This section allows you to configure the AP mode.

Internet Router/xDSL Modem	Smart Phone
LAN/WAN	-C1800AX
GHz S	302.11ax (() 2.4GHz 802.11ax
AP Mode	×
12	3
≒ LAN	
Connection Static IP	~
IP Address 192.168.1.253	3
Subnet 255.255.255.0)
Gateway 10.1.20.254	
Primary DNS 8.8.8.8	
Secondary DNS 8.8.4.4	
Next	

Figure 5-12 AP Mode



Object	Description
Connection	Select "Static IP" or "DHCP Client" for setting up device IP.
IP Address	Enter the AP static IP address.
Subnet	Enter the network mask.
Gateway	Enter the default gateway IP address.
Primary DNS	Enter the primary DNS IP address, or not.
Secondary DNS	Enter the secondary DNS IP address, or not.

Enter the LAN IP address.

AP Mode		×
0	2	3
🚖 2G WiFi		
WiFi Status		
SSID	PLANET_2.4GHz	
	Hide WiFi SSID?	
Wireless Mode	11AXG_GHE40 V	
Channel	Auto	
Encrypt	WPA3PSK-TKIPAES ~	
Password	77777777	
	Back Next	



AP Mode		×
O		3
≒ 5G WiFi		
WiFi Status		
SSID	PLANET_5GHz	
	Hide WiFi SSID?	
Wireless Mode	11AXA_AHE80 V	
Channel	112 ~	
Encrypt	WPA3PSK-TKIPAES V	
Password	77777777	
Timed Reboot		
Restart Interval	1Day 🗸	
	Back Next	

Figure 5-13 AP Mode – Set up Wi-Fi

Object	Description
Wi-Fi Status	Select ON (Blue) or OFF (Gray) to enable or disable wireless LAN.
SSID	It is the wireless network name. The default SSID is " PLANET_2.4G " and " PLANET_5G ".
Hide WiFi SSID?	Select check box to hide wireless LAN or not
Wireless Mode	Select Wi-Fi mode for 802.11a/b/g/n/ac/ax, channel width, " 20MHz " or " 40MHz " or " 80MHz ".
Channel	Select the operating channel you would like to use. The channel range will be changed by selecting a different domain.
Encryption	Select the wireless encryption. The default is "None".
Password	Enter the password of Wi-Fi
Timed Reboot	Select ON (Blue) or OFF (Gray) to restart for clock
Restart Interval	Set time to restart for day (1 to 10 Days)



5.5 Wi-Fi

5.5.1 2.4GHz/5GHz Wi-Fi

5.5.1.1. Basic

	WiFi MAC A	CL WiFi Timer	
Home	2G WiFi 5G WiFi	Advanced	
Wizard	WiFi Status		Enable VAP 1 VAP 2 VAP 3
	SSID	PLANET_2.4GHz	
	Wireless Mode	Hide WiFi SSID?	
WiFi	Channel	Auto	
	Encrypt	WPA3PSK-TKIPAES	
Network	Password	הדידידיד	
	Max Station	128 (0 to 256,0 means no limit)	
Firewall	TX Power	Max	
0			
Manage			
			Apply
8	WIFI MAC AV	CL WiFi Timer	
Home	2G WiFi 5G WiFi	Advanced	
*	WiFi Status		Enable VAP VAP 1 VAP 2 VAP 3
Wizard		WiFi Analyzer	
	SSID	PLANET_5GHz	
		PLANET_5GHz Hide WiFi SSID?	
WiFi	Wireless Mode	PLANET[_5GHz Hide WiFi SSID?	
	Wireless Mode Channel	PLANET_5GHz Hide WiFi SSID? 11AXA_AHE80 112	
WiFi	Wireless Mode Channel Encrypt	PLANET[_5GHz Hide WiFi SSID? 11AXA_AHE80 112 WPA3PSK-TKIPAES	
WiFi	Wireless Mode Channel	PLANET_5GHz Hide WiFi SSID? 11AXA_AHE80 112	
WiFi	Wireless Mode Channel Encrypt Password Max Station	PLANET[_50Hz Hide WiFi SSID? 11AXA_AHE80 112 WPA3PSK-TKIPAES 7777778 128 (0 to 256,0 means no limit)	
WIFI Network	Wireless Mode Channel Encrypt Password	PLANET[_50Hz Hide WiFi SSID? 11AXA_AHE80 112 WPA3PSK-TKIPAES 7777778 128 (0 to 256,0 means no limit)	

Figure 5-14 Basic



Object	Description
Wi-Fi Status	Select ON (Blue) or OFF (Gray) to enable or disable wireless LAN.
SSID	It is the wireless network name. The default SSID is " PLANET_2.4G " and " PLANET_5G ".
Hide WiFi SSID?	Select check box to hide wireless LAN or not
Wireless Mode	Select Wi-Fi mode for 802.11a/b/g/n/ac/ax, channel width, "20MHz" or "40MHz" or "80MHz".
Channel	It shows the channel of the CPE. Default 2.4GHz is channel 6.and 5GHz is channel 36.
Encryption	Select the wireless encryption. The default is "None".
Password	Enter the password of Wi-Fi
Max Station	Enter the Max. wireless client of Wi-Fi radio
TX Power	The range of transmit power is Max (100%) , Efficient (75%) , Enhanced (50%) , Standard (25%) or Min (12.5%) . In case of shortening the distance and the coverage of the wireless network, input a smaller value to reduce the radio transmission power.
Wi-Fi Analyzer	Press this button to analyze local area wireless signal.

5.5.1.2. VAP

E	nable VAP	VAP 1	VAP 2	VAP 3	
	VAP 1				
	SSID	PLANET_2	.4G_1		
		Hide WiFi SSI	D?		
	Encrypt	WPA3PSK-	TKIPAES	\sim	
I	Password	77777777			

Figure 5-15 VAP

Select VAP1~VAP3 to enable virtual AP.

Object	Description
Enable VAP	Select check box to enable the virtual AP



SSID	It is the wireless network name. The default 2.4GHz SSID is			
	"PLANET_2.4GHz_1" to "PLANET_2.4GHz_3" and 5GHz SSID is			
	"PLANET_5GHz_1" to "PLANET_5GHz_3".			
Hide WiFi SSID?	Select check box to hide wireless LAN or not			
Encrypt	Select the wireless encryption. The default is "None".			
Password	Enter the password of virtual Wi-Fi			

5.5.2 MAC ACL

5.5.2.1. MAC ACL

WiFi	MAC ACL	WiFi Timer				
SN	Name		MAC	Mark	Status	Operation
1			1A:56:3A:D9:77:B1	PLANET test AP Client	0	0

MAC	ACL			×
	Status			
	MAC	1A:56:3A:D9:77:B1	Scan	
	Mark			
		(Add a maximum of 32)		

Figure 5-16 MAC ACL



Add

The page includes the following fields:

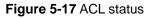
Object	Description				
Add	Press the " Add " button to add end-device that is scanned from wireless network and mark them.				
Status	Select ON (Blue) or OFF (Gray) to enable or disable ACL function				
Scan	Press the "Scan" button to detect client device				
Mark	Enter the description for client device				
Save	Press the " Save " button to save the rule.				
Delete	Press the " Delete " button to delete device from list.				
ACL Status	Select the rule of ACL; default is Disable . Blacklist: Prohibited rules within the device Whitelist: Allows the devices to pass				

Disable

Prohibited rules within the device through

Allows the device to pass in the rule

Allows the device to pass in





5.5.3 Wi-Fi Timer Off

5.5.3.1. Wi-Fi Timer Off

WIFi	MAC ACL	WiFi Timer					
			WiFi Timer				
			Time Range	© 21:30			

Figure 5-18 Wi-Fi Timer Off

Object	Description
Wi-Fi Timer Off	Select ON (Blue) or OFF (Gray) to enable or disable timer.
Time Frame	Choose the time frame of Wi-Fi.



5.5.4 Advanced

5.5.4.1. Advanced

2G WiFi 5	ig wifi	Advanced				
		User Isolation	On	~		
		Short GI	Off	~]		
		Coverage Threshold	-95	(-95dBm ~ -65dBm)		
		Packet Threshold	2346	(256~2346)		
		RTS Threshold	2347	(50~2347)		
		DFS	Off	Ý.]		

Apply

Figure 5-19 Advanced

Object	Description
User Isolation	Enable it to isolate each connected wireless client so that they cannot
	access mutually
Short GI	Guard intervals are used to ensure that distinct transmissions do not
	interfere with one another
Coverage Threshold	The coverage threshold is to limit the weak signal of clients occupying
Coverage Threshold	session. The default is -95dBm
Packet Threshold	When the length of a data packet exceeds this value, the router will
	send an RTS frame to the destination wireless node, and the latter will
Facket Intestiolu	reply with a CTS frame, and thus they are ready to communicate. The
	default value is 2346
	Enable or Disable RTS/CTS protocol. It can be used in the following
	scenarios and used by Stations or Wireless AP.
	1) When medium is too noisy or lots of interferences are present. If the
RTS Threshold	AP/Station cannot get a chance to send a packet, the RTS/CTS
	mechanism can be initiated to get the packet sent.
	2) In mixed mode, the hidden node problem can be avoided.
	The default value is 2347
DFS	Enable or Disable DFS (Dynamic Frequency Selection) function



Preferred 5GHz	Default enable to let client connect with 5GHz first
Terminal Fast Roam	Default enable 802.11k, 802.11v and 802.11r



5.5.5 Network

5.5.5.1. LAN Settings

LAN		
LAN		
Home Connection	Static IP 🗸	
IP Address	192.168.1.253	
Wizard Subnet		
Subier	255,255,255,0	
Gateway	10.1.20.254	
WiFi Primary DNS	8.8.8.8	
Secondary DNS	8.8.4.4	
Network		
0		
Manage		
	Apply	
LAN Static DHCP WAN		
Home IP Address	192.168.1.253	
5 Subnet		
	255.255.255.0	
Winned	255.255.255.0	
Wizard STP (
Wizard STP DHCP Server		
Wizard STP DHCP Server WiFI Start Address	100	
Wizard STP DHCP Server WiFi Start Address Max Number		
Wizard STP DHCP Server WiFi Start Address Max Number Primary DNS	100	
Wizard STP DHCP Server WiFi Start Address Max Number	100	
Wizard STP DHCP Server WiFi Start Address Max Number Primary DNS Network Secondary DNS	100 101 8.8.8.8	
Wizard STP DHCP Server WiFi Start Address Max Number Primary DNS Network Secondary DNS	0 100 101 8.8.8.8 8.8.4.4 24(Hour)	
Wizard STP DHCP Server WiFi Start Address Max Number Max Number Primary DNS Primary DNS Secondary DNS Rental period DHCP number 1	0 100 101 8.8.8.8 8.8.4.4 24(Hour)	
Wizard STP Image: Stard Address wife Stard Address Image: Wife Max Number Image: Stard Address wife <td< th=""><td>0 100 101 8.8.8.8 8.8.4.4 24(Hour)</td><td></td></td<>	0 100 101 8.8.8.8 8.8.4.4 24(Hour)	
Wizard STP DHCP Server WiFi Start Address Max Number Max Number Primary DNS Primary DNS Secondary DNS Rental period DHCP number 1	0 100 101 8.8.8.8 8.8.4.4 24(Hour)	
Wizard STP Image: STP DHCP Server Start Address Start Address Image: Start Address Max Number Image: Start Addres	0 100 101 8.8.8.8 8.8.4.4 24(Hour)	
Wizard STP DHCP Server WiFi Start Address Max Number Max Number Max Number Max Number Primary DNS Secondary DNS Rental period DHCP number	0 100 101 8.8.8.8 8.8.4.4 24(Hour)	

Figure 5-20 LAN Settings (AP/Gateway Mode)

Object	Description
Connection	Select "Static IP" or "DHCP Client" for setting up device IP
IP Address	Enter the AP static IP address



Subnet	Enter the network mask
Gateway	Enter the network default gateway
STP	Select ON (Blue) or OFF (Gray) to enable or disable STP function.
	(Gateway Mode)
DHCP Server	Select ON (Blue) or OFF (Gray) to enable or disable DHCP server
	function. (Gateway Mode)
Start Address	Enter the client devices first IP address (Gateway Mode)
Max. Number	Enter the client devices Max. number (Gateway Mode)
Primary DNS	Enter the primary DNS IP address, or not
Secondary DNS	Enter the secondary DNS IP address, or not
Rental period	Select the rental period for client devices (1 to 24 hours) (Gateway
	Mode)
DHCP number	Show the client device number (Gateway Mode)
DHCP List	Press button to show detailed client list information (Gateway Mode)



5.5.5.2. VLAN Settings (AP mode)

8	WIFI MAC AC	L WiFi Timer		
me	2G WIFI 5G WIFI	Advanced		
ard	SSID	Wi-Fi 6_2.4GHz		
		Hide WiFi SSID?		
	Wireless Mode	11AXG_GHE40 V		
1	Channel	Auto ~		
	Encrypt	WPA3PSK-TKIPAES		
ork	Password	84117341r		
	Max Station	128 (0 to 256,0 means no limit)		
	TX Power	Max 🗸		
ge	VLAN			
	VLAN Port	LAN1 V 🕐		
	VLAN ID	(1~4094)		
			Apply	

Figure 5-21 VLAN Settings

Object	Description
VLAN	Select ON (Blue) or OFF (Gray) to enable or disable wireless VLAN .
VLAN Port	LAN1 and LAN2 (WAN/PoE) ports are in bridge mode
VLAN ID	Enter the VLAN ID from 1 to 4094.

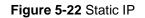


5.5.5.3. WAN Settings

Static IP

If your ISP offers you static IP Internet connection type, select "**Static IP**" and then enter IP address, subnet mask, default gateway and primary DNS information provided by your ISP in the corresponding fields.

Home	LAN Static DHCF	WAN		
	Internet Mode	Static IP	~	Enable web server access on WAN port 8080 (1-65535)
7年	IP Address	0.0.0		MAC Clone Scan
Wizard	Subnet	255.255.255.0		Enable Ping Access on WAN
	Default Gateway	0.0.0.0		Enable IPsec pass through on VPN connection
WIFI	MTU	1500	(1400-1500)	Enable PPTP pass through on VPN connection
-	Primary DNS	8.8.8.8		Enable L2TP pass through on VPN connection
	Secondary DNS	8.8.4.4		Line Detection
Vetwork	Band Type	500M Fiber	~	
•	Up	500000	Kbps	
Firewall	Down	500000	Kbps	
0				
Manage				
				Аррју



Object	Description
IP Address	Enter the WAN IP address provided by your ISP. Enquire your ISP if you are not clear.
Subnet	Enter WAN Subnet Mask provided by your ISP.
Default Gateway	Enter the WAN Gateway address provided by your ISP.
MTU	Maximum Transmission Unit. Default is 1500.
Primary DNS	Enter the necessary DNS address provided by your ISP.
Secondary DNS	Enter the secondary DNS address provided by your ISP.
Band Type	Select the band type provided by your ISP.
Up	Enter limited upstream throughput in custom mode
Down	Enter limited downstream throughput in custom mode

The page includes the following fields:

PPPoE (ADSL)

Select **PPPOE** if your ISP is using a PPPoE connection and provide you with PPPoE user name and password info.

Internet Mode	PPPoE	Enable web server access on WAN port 8080 (1-65535)
Username	Please enter account.	MAC Clone Scan
Password	Please enter password.	Enable Ping Access on WAN
Server Name	No Need, Don't fill	Enable IPsec pass through on VPN connection
Service Name	No Need, Don't fill	Enable PPTP pass through on VPN connection
MTU	1452 (1400-1492)	Enable L2TP pass through on VPN connection
Set DNS Manually		Line Detection
Primary DNS	8.8.8.8	
Secondary DNS	8.8.4.4	
Band Type	500M Fiber	
Up	500000 Kbps	
Down	500000 Kbps	

Figure 5-23 PPPoE

Object	Description
Username	Enter the PPPoE User Name provided by your ISP.
Password	Enter the PPPoE password provided by your ISP.
Server Name	Enter the server description or not.
Service Name	Enter the service description or not.
MTU	Maximum Transmission Unit. Default is 1452.
Set DNS Manually	Enable/Disable DNS Manually.
Primary DNS	Enter the necessary DNS address provided by your ISP.
Secondary DNS	Enter the secondary DNS address provided by your ISP.
Band Type	Select the band type provided by your ISP.
Upstream	Enter limited upstream throughput in custom mode
Downstream	Enter limited downstream throughput in custom mode

DHCP

Choose "DHCP" and the router will automatically obtain IP addresses, subnet masks and gateway addresses from your ISP.



	LAN Static DHCP	WAN		
Home	Internet Mode	DHCP	~	Enable web server access on WAN port 8080 (1-65535)
林	MTU	1500	(1400-1500)	MAC Clone Scan
Wizard	Set DNS Manually			Enable Ping Access on WAN
1	Primary DNS	8.8.8.8		Enable IPsec pass through on VPN connection
WiFi	Secondary DNS	8.8.4.4		Enable PPTP pass through on VPN connection
	Band Type	500M Fiber	×	Enable L2TP pass through on VPN connection
Network	Up	500000	Kbps	Line Detection
	Down	500000	Kbps	
Firewall				
•				
Manage				
				Apply

Figure 5-24 DHCP

Object	Description
MTU	Maximum Transmission Unit. Default is 1500.
Set DNS Manually	Enable/Disable DNS Manually.
Primary DNS	Enter the necessary DNS address provided by your ISP.
Secondary DNS	Enter the secondary DNS address provided by your ISP.
Band Type	Select the band type provided by your ISP.
Upstream	Enter limited upstream throughput in custom mode
Downstream	Enter limited downstream throughput in custom mode



5.5.5.4. WAN advanced settings

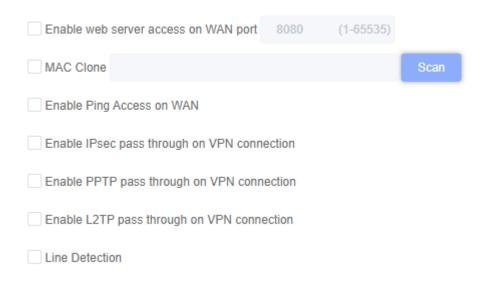


Figure 5-25 WAN advanced settings

Object	Description
Enable web server access on WAN port	Enable to access from WAN, default port is 8080
MAC clone	Enable and scan to clone the MAC address
Enable Ping Access on WAN	Enable or Disable this function
Enable IPsec pass through on VPN connection	Enable or disable IPSec to pass through IPSec communication data.
Enable PPTP pass through on VPN connection	Enable or disable PPTP to pass through PPTP communication data.
Enable L2TP pass through on VPN connection	Enable or disable L2TP to pass through L2TP communication data.
Line Detection	Enable to ping Host 1 and Host 2 IP. If ping fails, the WAN will be disconnected.



5.5.6 Firewall

5.5.6.1. URL Filtering

URL Filtering	IP Filter	MAC Eiller Bert Manning DM7 URL Filtering	×		
SN	Rule Name	Status Rule Name Black list Time Group Custom Time Range 0 00:00 · · · · · 00:00 Work Date Custom Mon. Tue. Wed. Thu. Fri. Sat. URL Www.facebook.com Mark Add a maximum of 32 Save		Mark	Operation
Enable Url filter	function o	Add Dele	te		

Figure 5-26 URL Filtering

Object	Description		
Add	Press the "Add" button to add the rule		
Delete	Press the "Delete" button to delete the rule		
Save	Press the "Save" button to enable/disable the rule		
Status	Select ON (Blue) or OFF (Gray) to enable or disable		
Rule Name	Enter the rule name, e.g. Black list		
Time Group	Select Any or Customer to set up time range and work data.		
URL	Enter the URL that you need to put in black list		
Time Range	Enter the start and end time for rule		
Work Date	Select the work day as ruled		
Mark	Enter the mark string, or not		



Enable/disable URL filter function

Disable
Enable Url filter function
Enable Url filter function \land

Figure 5-27 URL Filtering

5.5.6.2. IP/Port Filtering

SN	Rule Name	Status				s	Mark	Operation
		Rule Name						
		Time Group	Any	~	Add			
		IP Group	Custom	~	Add			
		IP Address			Scan			
		Port Range	-	No empty,range:	1-65535			
		Protocol	TCP		\sim			
		Mark						
		8	Add a maximum of 32					
			Save					

Figure 5-28 IP/Port Filtering

Object	Description
Add	Press the "Add" button to add the rule in the black or white list
Delete	Press the "Delete" button to delete the rule
Save	Press the "Save" button to enable/disable the rule
Status	Select ON (Blue) or OFF (Gray) to enable or disable
Rule Name	Enter the rule name, e.g. Black list
Time Group	Select Any or Customer to set up time range and work data.



IP Group	Select IP Group for adding IP by entering IP range or by scanning devices
IP Address	Enter the IP that you need to put in black or white list
Port Range	Enter the web port to access
Protocol	Select TCP, UDP or TCP+UDP
Mark	Enter the mark string, or not
IP/Port Filtering Status	Select the rule of IP/Port Filtering, default is Disable .
	Whitelist: Allow the devices to pass
	Blacklist: Prohibited rules within the device

Disable	
Allows the device to pass in the rule	
Prohibited rules within the device through	
Disable	Add Delete

Figure 5-29 IP/Port Filtering

5.5.6.3. MAC Filtering

SN Rule Name us Mark Operation Status Image: Statu	URL Filte	ring IP Filter	MAC Filter PortMa		×		
	SN	Rule Name	Status Rule Name Time Group MAC Mark	Any Add a maximum of 32	US	Mark	Operation



MAC Filter		×
Status		
Rule Name		
Time Group	Custom V Add	
Time Range	© 00:00 - © 00:00	
Work Date	Custom ~	
	Mon. Tue. Wed.	
	Thu. Fri. Sat. Sun.	
MAC	Scan	
Mark		
	Add a maximum of 32	
	Save	

Figure 5-30 MAC Filtering

Object	Description	
Add	Press the "Add" button to add the rule in the black or white list	
Delete	Press the " Delete " button to delete the rule	
Save	Press the "Save" button to enable/disable the rule	
Status	Select ON (Blue) or OFF (Gray) to enable or disable	
Rule Name	Enter the rule name, e.g. Black list	
Time Group	Select Any or Customer to set up time range and work data.	
MAC Address	Enter the MAC address that you need to put in black or white list	
Mark	Enter the mark string, or not	
MAC Filtering Status	Select the rule of MAC Filtering, default is Disable .	
	Whitelist: Allow the devices to pass	
	Blacklist: Prohibited rules within the device	



Disable	
Allows the device to pass in the rule	
Prohibited rules within the device through	
Disable ^	Add Delete

Figure 5-31 MAC Filtering

5.5.6.4. Security (Port Mapping/Port Forwarding)

URL Filtering IP Filter	Port Mapping	Appellog DNA7		×		
SN Rule Name	Port Mapping Status Rule Class Rule Name Protocol	User Defined	×	Status	Mark	Operation
	IP Address External Port Internal Port Mark		o empty,range:1-65535 o empty,range:1-65535			
Disable		Save	Delete			

Figure 5-32 Port Mapping

Object	Description
Add	Press the "Add" button to add the rule in the black or white list
Delete	Press the "Delete" button to delete the rule
Save	Press the "Save" button to enable/disable the rule
Status	Select ON (Blue) or OFF (Gray) to enable or disable
Rule Name	Enter the rule name, e.g. Black list
Protocol	Select TCP, UDP or TCP+UDP

LAN IP	Enter the IP address that you need for port forwarding
External Port	Enter the external port range (No empty, range: 1-65535)
Internal Port	Enter the internal port range (No empty, range: 1-65535)
Mark	Enter the mark string, or not

Enable/disable Port Mapping function

Disable	
Enable Port Mapping Function	
Disable ^	Add Delete

Figure 5-33 Port Mapping

5.5.6.5. DMZ

URL Filtering	IP Filter	MAC Filter	Port Mapping	DMZ
			Enable DMZ	O
			DMZ Host	



Object	Description
Enable DMZ	Select ON (Blue) or OFF (Gray) to enable or disable DMZ Host
DMZ Host IP	Enter the DMZ LAN IP



5.5.7 Manage

5.5.7.1. Configure

	Configure Timed Reboot Upgrade Time Manager Log QoS IP Group Time Group DDNS
Home	Restore Backup Reset Default
*	Restore
Wizard	
	
WiFi	Drag the file here, or Click on the upload
Network	Teinet (Enabling Teinet could be hacked, Use it carefully!)
Firewall	
\$	
Manage	
	Restore

Figure 5-35 Configure

Object	Description
Restore	Reload the configuration from your computer
Backup	Save the configuration file to your computer
Reset Default	Restore the factory default settings, please press this button
Telnet	Enabling Telnet could be hacked, Use it carefully!
	(Only for support use; default is disable)



5.5.7.2. Timed Reboot

Conf	igure Timed	l Reboot	Upgrade	Time Manager	Log	QoS	IP Group	Time Group	DDNS	
1e				Timed Reboot	0					
ŧ.				Reboot Time	0:00					
ird			0	Restart Interval	1Day		\sim			
>										
1										
ork										
vall										
age										
						Apply				

Figure 5-36 Timed Reboot

Object	Description
Timed Reboot	Select Enable or Disable to start schedule reboot
Reboot Time	Select reboot time for clock
Restart Interval	Select reboot duty by day



5.5.7.3. Upgrade

8	Configure	Timed Reboot	Upgrade	Time Manager	Log	QoS	IP Group	Time Group	DDNS	
Home			Ve	rsion WDAP-C180	DAX-AP-ETSI-V	(1.0				
7			Reset De			the factory conf	iguration)			
Wizard			Upgrad	le file		-				
WIFI						A				
					Drag the file he	ere, or Click on t	he upload			
Network										
Firewall										
0										
Manage										
						Upgrade				

Figure 5-37 Upgrade Firmware

The page includes the following fields:

Object	Description
Version	It shows the firmware version (Double-click to show more detailed info.)
Reset Default	Select ON (Blue) or OFF (Gray) to enable or disable to reset the device to default when upgrading firmware
Upgrade file	Press to select the firmware file
Upgrade	Press to upgrade the firmware

Note: Do not power off during the process of upgrading the software



5.5.7.4. Time Manager

8	Configure Timed Reboot Upgrade Time Manager Log QoS IP Group Time Group DDNS
Home	System Time 2021-08-17 17:17:29
*	
Wizard	Time Zone Select (GMT+08:00)Beijing, Chongqing, Hong Kong, Urur
	Manual IP
WIFI	NTP Server time windows.com V
Network	
Firewall	
Manage	
	Apply

Figure 5-38 Setting System Time

The page includes the following fields:

Object	Description
System Time	Show system time of device
NTP Enable	Select ON (Blue) or OFF (Gray) to enable or disable NTP function
Time Zone Select	Select time zone
Manual IP Settings	Enable to manual IP setting
NTP Server	Select NTP server

Note: If you want to use any function that needs scheduling, must enable NTP function.



5.5.7.5. Log

	Configure	Timed Reboot	Upgrade	Time Ma	nager	Log	QoS	IP Group	Time Group	DDNS	
е	2021/08/17 16:32:4	3 WDAR-C1800AY	velog info s	vslogd sta	ented: Busy	(Box v1 28	1				
	2021/08/17 16:32:4						, nux on physica	al CPU 0x0			
	2021/08/17 16:32:4						ng cgroup sub:				
	2021/08/17 16:32:4						ng cgroup sub:				
	2021/08/17 16:32:4						ng cgroup sub				
	2021/08/17 16:32:4								70TUA000CN) (g	cc version 5.2	2.0 (OpenWrt GCC 5.2.0 unknown)
	2021/08/17 16:32:4							ssor [51af8014			
	2021/08/17 16:32:4							×40000000 - 0			
	2021/08/17 16:32:4							ters from FDT			
	2021/08/17 16:32:4	3 WDAP-C1800AX H	kern.info ker			efi: UEFI					
	2021/08/17 16:32:4	3 WDAP-C1800AX H	kern.debug ke	rnel: [0.000000	cma: dma_	contiguous_res	serve(limit 6	0000000)		
	2021/08/17 16:32:4	3 WDAP-C1800AX #	kern.debug ke	rnel: [0.000000	On node 0	totalpages: :	100864			
	2021/08/17 16:32:4	3 WDAP-C1800AX #	kern.debug ke	rnel: [0.000000	DMA zon	e: 1576 pages	used for mem	nap		
	2021/08/17 16:32:4	3 WDAP-C1800AX H	kern.debug ke	rnel: [0.000000	DMA zon	e: 0 pages res	served			
	2021/08/17 16:32:4	3 WDAP-C1800AX H	cern.debug ke	rnel: [0.000000	DMA zon	e: 100864 page	es, LIFO batc	h:31		
	2021/08/17 16:32:4	3 WDAP-C1800AX #	kern.info ker	nel: [0.000000]	psci: prob	ing for condu	it method from	n DT.		
	2021/08/17 16:32:4	3 WDAP-C1800AX #	kern.info ker	nel: [0.000000]	psci: PSCI	1.0 detected	in firmware.			
	2021/08/17 16:32:4	3 WDAP-C1800AX H	kern.info ker					CI v0.2 funct:			
	2021/08/17 16:32:4							not supported			
	2021/08/17 16:32:4								fc01ef68000 s2		2256 u61440
	2021/08/17 16:32:4								440 alloc=15*4	096	
	2021/08/17 16:32:4							1 [0] 2 [0] 3			
	2021/08/17 16:32:4						EPT I-cache o				
	2021/08/17 16:32:4								ility grouping		
	2021/08/17 16:32:4										root=mtd:ubi_rootfs rootfstype=
	2021/08/17 16:32:4								2, 16384 byte		
	2021/08/17 16:32:4								36 (order: 7, 1		
	2021/08/17 16:32:4 2021/08/17 16:32:4								8 (order: 6, 2		
											ffffc01ee63000-ffffffc01eea2fff ta, 2340K rodata, 236K init, 32
	2021/08/17 16:32:4 2021/08/17 16:32:4						kernel memory		520K Kernei CO	ue, 644K rwudi	La, 2540K MOUALA, 250K INIL, 52
	2021/08/17 16:32:4				0.00000				0xffffffbdbff	50000 ()	46 GB)
	2021/08/17 16:32:4				0.000000				0xffffffbfc00		8 GB maximum)
	2021/08/17 16:32:4				0.000000				0xffffffbdc08		7 MB actual)
	2021/08/17 16:32:4				0.000000				0xffffffbffac		08 KB)
	2021/08/17 16:32:4				0.000000				0xffffffbffbel		16 MB)
	2021/00/17 10.52.4	J NDAF-CIOUDAN P	Cerminocice K	erner, [0.000000	j rei .	L/O . 0X11111	10118200000 -	oxiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	00000 (1	10 Hb)
	Log Remote	Log Service				Apply		Export De	elete Refr		

Figure 5-39 Log

Object	Description	
Log	Select ON/OFF to record log or not	
Remote Log Service Enable remote log server and enter the server IP address		
Export	Export a log.bin file to you PC	
Delete	Press to delete all of the system log	
Refresh	Press to refresh the system log	
Apply	Press to save configuration	



5.5.7.6. QoS

Home	SN	IP Address	Status			Status	Mark	Operation
·7+			IP Group	Custom	Add			
Wizard			IP Address		Scan			
				<u></u>				
Ŷ			Time Group	Any	∽ Add			
WiFi			Limited Mode	Shared Limited Bandwidth	~			
			Up		Kbps			
Network			Down		Kbps			
			Mark					
Ð				Add a maximum of 32				
Firewall				Save				
8								
Manage								

Figure 5-40 QoS

The page includes the following fields:

Object	Description
Add	Press the "Add" button to add the rule in the control list
Delete	Press the "Delete" button to delete the rule
Save	Press the "Save" button to enable/disable the rule

Enable/disable QoS function

Disable QoS Enable QoS			
Enable QoS	^	Add Delete	

Figure 5-41 Enable or Disable QoS Rule



IP Filter			×
Status			
IP Group	Custom	~	Add
IP Address	-		Scan
Time Group	Any	~	Add
Limited Mode	Shared Limited Bandwidth		~
Up			Kbps
Down			Kbps
Mark			
	Add a maximum of 32		
	Save		

Figure 5-42 Adding rule of QoS (Speed Limit)

Object	Description
Status	Select ON (Blue) or OFF (Gray) to enable or disable QoS rule
IP Group	Select custom or Add an IP group
IP Address	Enter an IP address range or use scan to select
Time Group	Select any or custom or Add a Time group
Limited Mode	Select limited mode for shared limited bandwidth or exclusive limited bandwidth
Up	Enter the upstream limited for kbps
Down	Enter the downstream limited for kbps
Mark	Enter the mark string, or not



5.5.7.7. IP Group

Configure Timed Rebo		Managar Lon O	no IP Grain Timo Gr		
SN .	IP Group Group Name IP Range Mark	Add a maximum of 16	Scan	Mark	Operation
		Add	Delete		

Figure 5-43 IP Group

The page includes the following fields:

Object	Description
Add	Press the "Add" button to add IP group in list
Delete	Press the "Delete" button to delete the group

Group Name		
IP Range	-	Scan
Mark		
	Add a maximum of 16	

Figure 5-44 Add IP Group



Object	Description
Group Name	Enter an IP group description
IP Range	Enter an IP address range or use scan to select
Mark	Enter the mark string, or not

5.5.7.8. Time Group

Configure	Timed Reboot	Upgrado Timo Time Group	Mananor Lon	200	ID Croun	Time Group	DDNS	
SN	Time Grou	Time Group Time Range Work Date Mark	Custom Mon. T Thu. Fr Add a maximum of 1	i. 🗌 Sat.	~		Mark	Operation
				Add Del	ete			

Figure 5-45 Time Group

Object	Description
Add	Press the "Add" button to add time group in list
Delete	Press the "Delete" button to delete the group



Time Group		×
Time Group		
Time Range	© 00:00 - © 00:00	
Work Date	Custom ~	
	Mon. Tue. Wed.	
	Thu. Fri. Sat. Sun.	
Mark		
	Add a maximum of 16	
	Save	

Figure 5-46 Add Time Group

Object	Description			
Time Group	Enter a time group description			
Time Range Select start time and end time for time range				
Work Date	Select work day by option table			
Mark	Enter the mark string, or not			



5.5.7.9. DDNS Setting

Configure	Timed Reboot	Upgrade	Time Manager	Log	QoS	IP Group	Time Group	DDNS	
			DDNS C)					
		C	DDNS Option PLA	NET DDNS			~		
			User Name						
			Password						
			Domain						
			Public IP N/A						
			No Acc	ount? Registra	ation Forget Pas	sword			



Figure 5-47 DDNS Setting

Object	Description
DDNS	Select ON (Green) or OFF (Gray) to enable or disable PLANET DDNS
DDNS Option	Select PLANET DDNS or Easy DDNS function
User Name	Enter user account for PLANET DDNS. If you use Easy DDNS, it is not necessary.
Password	Enter password for PLANET DDNS. If you use Easy DDNS, it is not necessary.
Domain	Enter unique domain name for device. If you use Easy DDNS, it will be automatically generated
Public IP	Public IP address is necessary for WAN IP
No Account Registration Forget Password	Hyperlink to <u>http://www.planetddns.com/?view=registration</u>



DDNS Option	PLANET EasyDDNS V
User Name	pIAC4306
Password	
Domain	pIAC4306.planetddns.com
Public IP	N/A
	No Account? Registration Forget Password

Figure 5-48 PLANET EasyDDNS



5.5.7.11. Modify Password

1800Mbp	os Dual E	Band Wi-F	i 6 Indoo	r Wireless /	AP WDAP-C	1800AX	88	⊡	
me Manager	Log	QoS	IP Group	Time Group	DDNS		® ، ا	Modify Pass	word
	Modify F	Password					×		
		Old Pass							
		New Pass Confirm Pass							
				Save					

Figure 5-49 Modify Password

Object	Description
Old Password	Enter old password to change the password
New Password	Enter new password
Confirm Password	Enter new password again



5.5.7.13. Device Reboot

1800Mbp	s Dua	l Band Wi-F	i 6 Indoo	r Wireless /	AP WDAP	-C1800AX	88	Ŀ→	
							8		1
ne Manager	Log	QoS	IP Group	Time Group	DDNS		Ċ	Device Reb	oot
DDNS		Prompt Inform	ation			×			
		! Want to	reboot?						
					Cancel	ОК			

Figure 5-50 Device Reboot

Object	Description
ОК	Enter to reboot device
Cancel	Enter to cancel



5.5.7.14. Logout

1800Mbps D	ual Ban	d Wi-Fi 6 Indoor Wireless AP	WDAP-C1800AX	88 E	→ Logout
	· Promp	t Information		×	
	0	Are you sure you want to quit?			
			Cancel	ок	

Figure 5-51 Logout

Object	Description
ок	Enter to log out manage web
Cancel	Enter to cancel



Chapter 6. Quick Connection to a Wireless Network

In the following sections, the default SSID of the WDAP-C1800AX is configured to "default".

6.1 Windows XP (Wireless Zero Configuration)

Step 1: Right-click on the wireless network icon displayed in the system tray



Figure 6-1 System Tray – Wireless Network Icon

Step 2: Select [View Available Wireless Networks]

Step 3: Highlight and select the wireless network (SSID) to connect

- (1) Select SSID [default]
- (2) Click the [Connect] button

1 ⁰ Wireless Network Connect	ion	×
Network Tasks	Choose a wireless network	
🚭 Refresh network list	Click an item in the list below to connect to a <u>w</u> ireless network in range or to get more information.	
Set up a wireless network for a home or small office	((p))	î
Related Tasks	درم)) کار	1
Learn about wireless networking	Contract Security-enabled wireless network	
Change the order of preferred networks	Comparison of the security-enabled wireless network] –
Change advanced settings	(())) default Security-enabled wireless network (WPA)	
	To connect to this network, click Connect. You might need to enter additional information.	
	((p))	•
	⊆onne	ct

Figure 6-2 Choosing a Wireless Network



Step 4: Enter the encryption key of the wireless AP

- (1) The Wireless Network Connection box will appear
- (2) Enter the encryption key that is configured in section 5.7.2.1
- (3) Click the [Connect] button

Wireless Network Conne	ection	×
	es a network key (also called a WEP key or WPA key). unknown intruders from connecting to this network.	
Type the key, and then click	Connect.	
Network <u>k</u> ey:	•••••	
Confirm network key:	••••••	
	<u>Connect</u> Cancel	

Figure 6-3 Entering the Network Key

Step 5: Check if "Connected" is displayed

⁽ⁱ ț ⁱ⁾ Wireless Network Connect	tion	×
Network Tasks	Choose a wireless network	
😴 Refresh network list	Click an item in the list below to connect to a <u>w</u> ireless network in range or to get more information.	
Set up a wireless network	((p)) default Connected 😒	
	🕴 🧘 Security-enabled wireless network (WPA)	
Related Tasks	((q))	
Learn about wireless	🖡 🕅 😚 Security-enabled wireless network (WPA)	=
networking	((@))	
Change the order of preferred networks	Cecurity-enabled wireless network	
Change advanced settings	((@))	
securigs	Contract Con	
	((@))	
	Unsecured wireless network	
	((p))	
	Unsecured wireless network	~
		ct

Figure 6-4 Choosing a Wireless Network -- Connected



Some laptops are equipped with a "Wireless ON/OFF" switch for the internal wireless LAN. Make sure the hardware wireless switch is switched to "ON" position.



6.2 Windows 7/8/10 (WLAN AutoConfig)

WLAN AutoConfig service is built-in in Windows 7 that can be used to detect and connect to wireless network. This built-in wireless network connection tool is similar to wireless zero configuration tool in Windows XP.

Step 1: Right-click on the **network icon** displayed in the system tray



Figure 6-5 Network Icon

Step 2: Highlight and select the wireless network (SSID) to connect

- (1) Select SSID [default]
- (2) Click the [**Connect**] button

Not connected	•
Connections are available	
Dial-up and VPN	^
Office VPN	
Wireless Network	^ ■
default	
Connect automatically]
territories al	
actions of	1
comes al	
Open Network and Sharing Center	

Figure 6-6 WLAN AutoConfig



If you will be connecting to this Wireless AP in the future, check [Connect automatically].



Step 4: Enter the encryption key of the wireless AP

- (1) The Connect to a Network box will appear.
- (2) Enter the encryption key that is configured in section 5.7.2.1
- (3) Click the [OK] button.

ype the networ	k security key
Security key:	
	Hide characters
5	You can also connect by pushing the button on the router.
0	

Figure 6-7 Typing the Network Key

P Connect to a Network	×
Connecting to default	
	Cancel

Figure 6-8 Connecting to a Network



Step 5: Check if "Connected" is displayed.



Figure 6-9 Connected to a Network

6.3 Mac OS X 10.x

In the following sections, the default SSID of the WDAP-C1800AX is configured to "default".

Step 1: Right-click on the network icon displayed in the system tray

The AirPort Network Connection menu will appear.



Figure 6-10 Mac OS – Network Icon

Step 2: Highlight and select the wireless network (SSID) to connect

- (1) Select and SSID [default].
- (2) Double-click on the selected SSID.



Figure 6-11 Highlighting and Selecting the Wireless Network



Step 4: Enter the encryption key of the wireless AP

- (1) Enter the encryption key that is configured in section 5.7.2.1
- (2) Click the [OK] button.

The network "default" requires a WPA password.
Password:
Show password Remember this network
Cancel OK

Figure 6-12 Enter the Password





Step 5: Check if the AirPort is connected to the selected wireless network.

If "Yes", then there will be a "check" symbol in front of the SSID.

) 🕴 🛜	•		ŀ Ø	Q
AirPort: On					
Turn AirPort Off					
√default	_		-		
and the second s	A 🔅				
1000000	(i:				
	2				
	A 🔅				
000-00000	((:-	16 ¹ 1			
incase.	9			1481	
	ê 🔶				
(ME)	₽ 🤶				
proc. Terred	₽				
long Million and		104			
and the second se	₽ 🔶				
Join Other Network					
Create Network Open Network Preferences					
		63 J.			

Figure 6-13 Connected to the Network



There is another way to configure the MAC OS X wireless settings:

Step 1: Click and open the [System Preferences] by going to Apple > System Preference or Applications

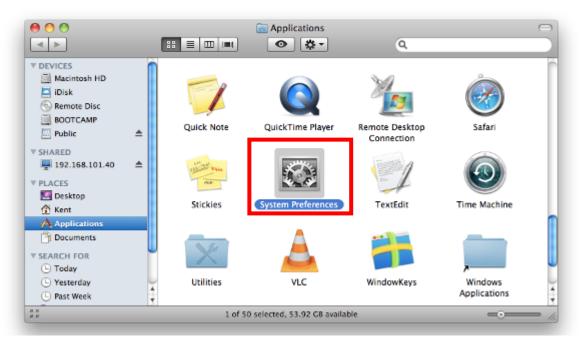


Figure 6-14 System Preferences

Step 2: Open Network Preference by clicking on the [Network] icon

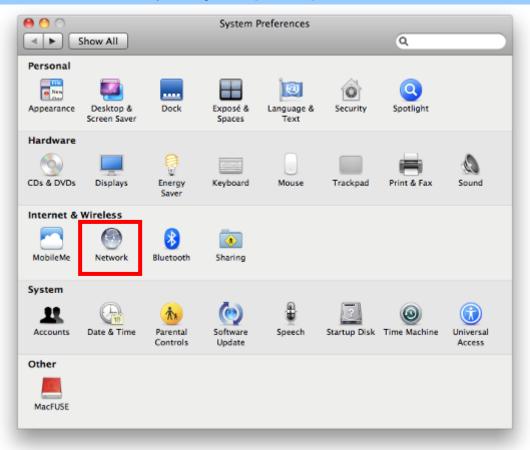


Figure 6-15 System Preferences -- Network



Step 3: Check Wi-Fi setting and select the available wireless network

- (1) Choose the AirPort on the left menu (make sure it is ON)
- (2) Select Network Name [default] here

If this is the first time to connect to the Wireless AP, it should show "No network selected".

0 0	Network			
Show All			٩	
Loc	ation: Automatic	•		
USB Ethernet Not Connected	Status:	On T	urn AirPort Off	
e 802.11dapter		AirPort is turned on but is a network.	not connected to	
• AirPort	Network Name	No network selected		
Home VPN		1000	(;·	
		default	 	
		and the second se	● (; •	
		and the second	(;	
			₽ (\$\$	
		in the second	₽ (\$	
		Join Other Network Create Network		
+ - *-	Show AirPort statu	s in menu bar	Advanced ?	
Click the lock to prevent	further changes.	Assist me	Revert Apply	

Figure 6-16 Selecting the Wireless Network



6.4 iPhone/iPod Touch/iPad

In the following sections, the default SSID of the WDAP-C1800AX is configured to "default".

Step 1: Tap the [Settings] icon displayed in the home screen



Figure 6-17 iPhone – Settings icon

Step 2: Check Wi-Fi setting and select the available wireless network

- (1) Tap [General] \ [Network]
- (2) Tap [Wi-Fi]

If this is the first time to connect to the Wireless AP, it should show "Not Connected".

iPad	10:35 AM	
Settings	General	
Airplane Mode OFF		
Wi-Fi Not Connected	About >	
Notifications On	Usage	
Carrier	Sounds	
🕎 Cellular Data		
🙀 Brightness & Wallpaper	Network >	
Picture Frame	Bluetooth Off >	
General	Location Services On >	
🔄 Mail, Contacts, Calendars	Spotlight Search	
Mafari Safari		

Figure 6-18 Wi-Fi Setting



Pad	10:35 AM	100%
Settings	General Netv	vork
Airplane Mode OFF		
Wi-Fi Not Connected	VPN	Not Connected >
On Notifications	Wi-Fi	Not Connected >
Carrier		
🕎 Cellular Data		
🙀 Brightness & Wallpaper		
Picture Frame		
🚳 General		
Mail, Contacts, Calendars		
M Safari		

Figure 6-19 Wi-Fi Setting - Not Connected

Step 3: Tap the target wireless network (SSID) in "Choose a Network..."

- (1) Turn on Wi-Fi by tapping "Wi-Fi"
- (2) Select SSID [default]

iPad	11:23 PM	F 76%
Settings	Network Wi-Fi Networks	
Airplane Mode OFF		
Wi-Fi Not Connected	Wi-Fi	ON
Notifications On	Choose a Network	
Location Services On	default	₽ 🌫 📀
🕎 Cellular Data	Other	>
🔛 Brightness & Wallpaper	Ask to Join Networks	ON
Picture Frame	Known networks will be joined autor known networks are available, you	
General	before joining a new networks	

Figure 6-20 Turning on Wi-Fi



Step 4: Enter the encryption key of the Wireless AP

- (1) The password input screen will be displayed.
- (2) Enter the encryption key that is configured in section 5.7.2.1
- (3) Tap the [Join] button.



Figure 6-21 iPhone -- Entering the Password



Step 5: Check if the device is connected to the selected wireless network.

If "Yes", then there will be a "check" symbol in front of the SSID.

iPad	11:25 PM	75%
Settings	Network Wi-Fi Networks	
Airplane Mode OFF		
S Wi-Fi default	Wi-Fi	ON
Notifications On	Choose a Network	
Location Services On	✓ default	₽ 🌫 🕥
🕎 Cellular Data	Other	>
🙀 Brightness & Wallpaper	Ask to Join Networks	ON
Picture Frame	Known networks will be joined auto known networks are available, you	
Seneral	before joining a new netv	

Figure 6-22 iPhone -- Connected to the Network



Appendix A: Planet Smart Discovery Utility

To easily list the WDAP-C1800AX in your Ethernet environment, the Planet Smart Discovery Utility is an ideal solution.

The following installation instructions guide you to running the Planet Smart Discovery Utility.

Step 1: Download the Planet Smart Discovery Utility to administrator PC.

Step 2: Run this utility and the following screen appears.



Step 3: Press "Refresh" for the current connected devices in the discovery list as shown in the following screen:

	PLANET Smart D	iscovery Lite							- 0	>	×
F	le Option Help										
		2	U Refres	sh	🖹 Exit			9	PLAN Networking & Con		an
	MAC Address	Device Name	Version	DeviceIP	NewPassword	IP Address	NetMask	Gateway	Description		^
1	A8-F7-E0-00-00-01	WDAP-C1800A	AP-ETSI-V3.0	192.168.1.201		192.168.1.201	255.255.255.0	192.168.1.254	WDAP-C1800)AX	
2	00-30-4F-BB-06-B6	VIP-1010PT	50.141.2.28	10.1.20.195		10.1.20.195	255.255.255.0	10.1.20.254	HD PoE IP PI	hone(1-l	Ú
3	00-E0-4C-81-96-C1	POE-2400G	v4.253b200504	192.168.0.69		192.168.0.69	255.255.255.0	192.168.0.254	802.3at PoE	Manage	90
4	00-30-4F-03-31-D1	IPX-330	v3.2.5	192.168.1.241		192.168.1.241	255.255.255.0	192.168.1.254	IPX-330		
5	A8-F7-E0-00-06-61	VR-100	v1.1907b21011	192.168.1.254		192.168.1.254	255.255.255.0	192.168.1.254	PLANET VR-	100 VPI	N
6	08-00-27-3E-E1-87	UNI-NMS-LITE	v1.0b210305	192.168.1.210		192.168.1.210	255.255.255.0	192.168.1.254	UNI-NMS-LIT	E	¥
<											
	Selet 192.168.1.66 (00:30:11:11:11:14)										
	Update Device Update Multi Update A Connect to Device Device : UNI-NMS-LITE (08-00-27-3E-E1-87) Get Device Information done.										

Step 3: Press "Connect to Device" and then the Web login screen appears.



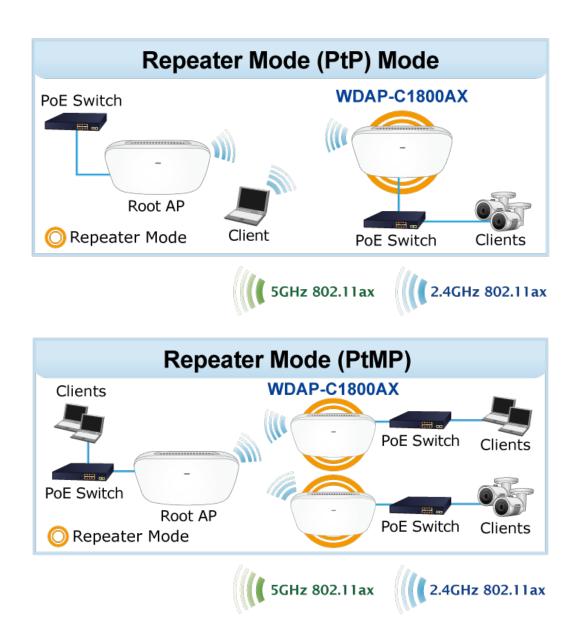
The fields in white background can be modified directly and then you can apply the new setting by clicking "**Update Device**".



Appendix B: FAQs

Q1: How to Set Up the AP Client Connection

Topology:





Step 1. Use static IP in the PCs that are connected with AP-1(Site-1) and AP-2(Site-2). In this case, Site-1 is "192.168.1.100", and Site-2 is "192.168.1.200".

Connect using: Realtek PCIe FE Family Controller	You can get IP settings assigned automatically if your network at this capability. Otherwise, you need to ask your network a for the appropriate IP settings.	
Configure This connection uses the following items:	 Obtain an IP address automatically Use the following IP address: 	
 ✓ Client for Microsoft Networks ✓ ● AVG network filter driver ✓ ● QoS Packet Scheduler 	IP address: 192 . 168 . 1 Subnet mask: 255 . 255 . 255	
File and Printer Sharing for Microsoft Networks file and Printer Sharing for Microso	Default gateway:	•
A Link-Layer Topology Discovery Mapper I/O Driver A Link-Layer Topology Discovery Responder	Obtain DNS server address automatically Ose the following DNS server addresses:	
Install Uninstall Properties	Preferred DNS server:	
Description	Alternate DNS server:	,
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	Validate settings upon exit	Advanced

Step 2. In AP-2, change the default IP to the same IP range but different from AP-1. In this case, the IP is changed to **192.168.1.252**.

LAN		
	Connection	Static IP V
	IP Address	192.168.1.252
	Subnet	255.255.255.0
	Gateway	10.1.20.254
	Primary DNS	8.8.8.8
	Secondary DNS	8.8.4.4

Step 3. In AP-1, go to "**Wizard**" to configure it to **AP Mode**. In AP-2, configure it to **Repeater Mode**. AP-1



	Gateway Mode	Repeater Mode	Current Mode -	
(îr)			e, the AP wireless interface and cable ging together. Without NAT, firewall and all inctions.	

AP-2



Step 4. In AP-2, press **Scan AP** to search the AP-1. You can also enter the MAC address, SSID, encryption and bandwidth if you know what they are.

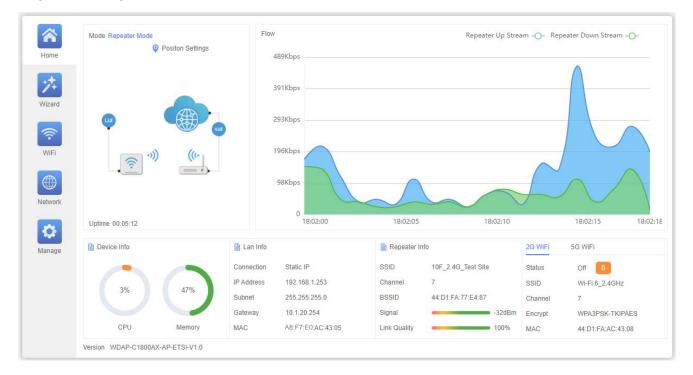


Repeater Mode	×
12	34
₩ Repeater	
Select Radio	Use 2G 🗸
SSID	10F_2.4G_Test Site Scan
Lock BSSID	44:D1:FA:77:E4:87
Wireless Mode	11AXG_GHE40 V
Encrypt	WPA/WPA2PSK-TKIPAES ~
Password	זדדדדדד
P2P	
	Next

Repeater Mode	×
Ø	3 4
🚖 5G WiFi	
WiFi Status	
SSID	Wi-Fi 6_5GHz
	Hide WiFi SSID?
Encrypt	WPA3PSK-TKIPAES V
Password	84117341r
Timed Reboot	
Restart Interval	1Day v
	Back Next



Step 5. Click "Next" to finish the setting.

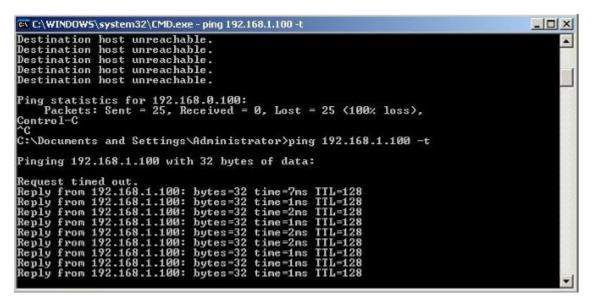


Step 6. Click "Repeater Information" to check connection status.



Step 7. Use command line tool to ping each other to ensure the link is successfully established.

From Site-1, ping 192.168.1.200; and in Site-2, ping 192.168.1.100.



Step 8. Configure the TCP/IP settings of Site-2 to "Obtain an IP address automatically".

etworking	General Alternate Configuration			
Connect using: Intel(R) PRO/1000 MT Desktop Adapter	You can get IP settings assigned au this capability. Otherwise, you need for the appropriate IP settings.			
Configure	Obtain an IP address automati	cally		
This connection uses the following items:	OUse the following IP address: -			
Gient for Microsoft Networks AVG network filter driver	IP address:			
Gos Packet Scheduler	Subnet mask: Default gateway:			- ¥:
File and Printer Sharing for Microsoft Networks Annumber Protocol Version 6 (TCP/IPv6)		1.1	12	
Internet Protocol Version 4 (TCP/IPv4) Automatical Version 4 (TCP/IPv4) Automatical Version 4 (TCP/IPv4) Automatical Version 4 (TCP/IPv4)	Obtain DNS server address au			
Link-Layer Topology Discovery Responder	 Use the following DNS server a 	ddresses:		
Instal Uninstal Properties	Preferred DNS server:			•
Description	Alternate DNS server:			
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	Validate settings upon exit			Advanced
			OK	Cance



Step 9. Use command line tool to ping the DNS (e.g., Google) to ensure Site-2 can access internet through the

wireless connection.

C:\Windows\system32\cmd.exe - ping 192.168.1.1 -t
Reply from 192.168.1.1: hytes=32 time <ins ttl="64</td"> Reply from 192.168.1.1: hytes=32 time<ins ttl="64</td"></ins></ins></ins></ins></ins></ins></ins></ins></ins></ins></ins></ins></ins></ins></ins></ins></ins></ins>
🚾 C:\Windows\system3Z\cmd.exe - ping 8.8.8.8 -t
Reply from 8.8.8.8: bytes=32 time=37ms TTL=53 Reply from 8.8.8.8: bytes=32 time=36ms TTL=53 Reply from 8.8.8.8: bytes=32 time=37ms TTL=53 Reply from 8.8.

The following hints should be noted:

1) The encryption method must be the same as that of both sites if configured.



- 2) Both sites should be Line-of-Sight.
- For the short distance connection less than 1km, please reduce the "RF Output Power" of both sites.
- 4) For the long distance connection over 1km, please adjust the "Distance" to the actual distance or double the actual distance.



Appendix C: Troubleshooting

If you find the AP is working improperly or stop responding to you, please read this troubleshooting first before contacting the dealer for help. Some problems can be solved by yourself within a very short time.

Scenario	Solution	
The AP is not responding to	a. Please check the connection of the power cord and the	
me when I want to access it	Ethernet cable of this AP. All cords and cables should be	
by Web browser.	correctly and firmly inserted into the AP.	
,	b. If all LEDs on this AP are off, please check the status of	
	power adapter, and make sure it is correctly powered.	
	c. You must use the same IP address section which AP uses.	
	d. Are you using MAC or IP address filter? Try to connect	
	the AP by another computer and see if it works; if not,	
	please reset the AP to the factory default settings by	
	pressing the 'reset' button for over 7 seconds.	
	e. Use the Smart Discovery Tool to see if you can find the AP or not.	
	f. If you did a firmware upgrade and this happens, contact	
	your dealer of purchase for help.	
	g. If all the solutions above don't work, contact the dealer	
	for help.	
I can't get connected to the	a. Go to 'Status' -> 'Internet Connection' menu on the router	
Internet.	connected to the AP, and check Internet connection	
	status. b. Please be patient. Sometimes Internet is just that slow.	
	c. If you've connected a computer to Internet directly before, try to do that again, and check if you can get	
	connected to Internet with your computer directly	
	attached to the device provided by your Internet service	
	provider.	
	d. Check PPPoE / L2TP / PPTP user ID and password	
	entered in the router's settings again.	
	e. Call your Internet service provider and check if there's	
	something wrong with their service.	
	f. If you just can't connect to one or more website, but you	
	can still use other internet services, please check	
	URL/Keyword filter.	
	g. Try to reset the AP and try again later.	
	h. Reset the device provided by your Internet service	
	provider too.	



Scenario	Solution	
	i. Try to use IP address instead of host name. If you can	
	use IP address to communicate with a remote server,	
	but can't use host name, please check DNS setting.	
I can't locate my AP by my	a. 'Broadcast ESSID' set to off?	
wireless device.	b. Both two antennas are properly secured.	
	c. Are you too far from your AP? Try to get closer.	
	d. Please remember that you have to input ESSID on your	
	wireless client manually, if ESSID broadcast is disabled.	
File downloading is very slow	a. Internet is slow sometimes. Please be patient.	
or breaks frequently.	b. Try to reset the AP and see if it's better after that.	
	c. Try to know what computers do on your local network. If	
	someone's transferring big files, other people will think	
	Internet is really slow.	
	d. If this never happens before, call you Internet service	
	provider to know if there is something wrong with their	
	network.	
I can't log into the web	a. Make sure you're connecting to the correct IP address of	
management interface; the	the AP!	
password is wrong.	b. Password is case-sensitive. Make sure the 'Caps Lock'	
	light is not illuminated.	
	c. If you really forget the password, do a hard reset.	
The AP becomes hot	a. This is not a malfunction, if you can keep your hand on	
	the AP's case.	
	b. If you smell something wrong or see the smoke coming	
	out from AP or A/C power adapter, please disconnect	
	the AP and power source from utility power (make sure	
	it's safe before you're doing this!), and call your dealer of	
	purchase for help.	



Appendix D: Glossary

- 802.11ax 802.11ax is a wireless networking standard in the 802.11 family by adding OFDMA, MU-MIMO (which is marketed under the brand name Wi-Fi 6), developed in the IEEE Standards Association process, providing high-throughput wireless local area networks (WLANs) on the 5GHz band 20.40.80. 160MHz.
- 802.11ac 802.11ac is a wireless networking standard in the 802.11 family by adding MU-MIMO (which is marketed under the brand name Wi-Fi 5), developed in the IEEE Standards Association process, providing high-throughput wireless local area networks (WLANs) on the 5GHz band.
- 802.11n 802.11n builds upon previous 802.11 standards by adding MIMO (multiple-input multiple-output). MIMO uses multiple transmitter and receiver antennas to allow for increased data throughput via spatial multiplexing and increased range by exploiting the spatial diversity, perhaps through coding schemes like Alamouti coding. The Enhanced Wireless Consortium (EWC) [3] was formed to help accelerate the IEEE 802.11n development process and promote a technology specification for interoperability of next-generation wireless local area networking (WLAN) products.
- 802.11a 802.11a was an amendment to the IEEE 802.11 wireless local network specifications that defined requirements for an orthogonal frequency division multiplexing (OFDM) communication system. It was originally designed to support wireless communication in the unlicensed national information infrastructure (U-NII) bands (in the 5–6 GHz frequency range) as regulated in the United States by the Code of Federal Regulations, Title 47, Section 15.407.
- 802.11b The 802.11b standard specifies a wireless networking at 11 Mbps using direct-sequence spread-spectrum (DSSS) technology and operating in the unlicensed radio spectrum at 2.4GHzHz, and WEP encryption for security. 802.11b networks are also referred to as Wi-Fi networks.
- 802.11g specification for wireless networking at 54 Mbps using direct-sequence spread-spectrum (DSSS) technology, using OFDM modulation and operating in the unlicensed radio spectrum at 2.4GHzHz, and backward compatibility with IEEE 802.11b devices, and WEP encryption for security.
- DDNS (Dynamic Domain Name System) The capability of assigning a fixed host and domain name to a dynamic Internet IP Address.
- DHCP (Dynamic Host Configuration Protocol) A protocol that automatically configure the TCP/IP parameters for the all the PC(s) that are connected to a DHCP server.
- DMZ (Demilitarized Zone) A Demilitarized Zone allows one local host to be exposed to the Internet for a special-purpose service such as Internet gaming or videoconferencing.
- DNS (Domain Name System) An Internet Service that translates the names of websites into IP addresses.



- > **Domain Name -** A descriptive name for an address or group of addresses on the Internet.
- DSL (Digital Subscriber Line) A technology that allows data to be sent or received over existing traditional phone lines.
- > MTU (Maximum Transmission Unit) The size in bytes of the largest packet that can be transmitted.
- NAT (Network Address Translation) NAT technology translates IP addresses of a local area network to a different IP address for the Internet.
- PPPoE (Point to Point Protocol over Ethernet) PPPoE is a protocol for connecting remote hosts to the Internet over an always-on connection by simulating a dial-up connection.
- SSID A Service Set Identification is a thirty-two character (maximum) alphanumeric key identifying a wireless local area network. For the wireless devices in a network to communicate with each other, all devices must be configured with the same SSID. This is typically the configuration parameter for a wireless PC card. It corresponds to the ESSID in the wireless Access Point and to the wireless network name.
- WEP (Wired Equivalent Privacy) A data privacy mechanism based on a 64-bit or 128-bit or 152-bit shared key algorithm, as described in the IEEE 802.11 standard.
- Wi-Fi A trade name for the 802.11b wireless networking standard, given by the Wireless Ethernet Compatibility Alliance (WECA, see http://www.wi-fi.net), an industry standards group promoting interoperability among 802.11b devices.
- WLAN (Wireless Local Area Network) A group of computers and associated devices communicate with each other wirelessly, which network serving users are limited in a local area.



EC Declaration of Conformity

	1		1	
English	Hereby, PLANET Technology Corporation , declares that this 11ac Wireless AP is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.	Lietuviškai	Šiuo PLANET Technology Corporation ,, skelbia, kad 11ac Wireless AP tenkina visus svarbiausius 2014/53/EU direktyvos reikalavimus ir kitas svarbias nuostatas.	
Česky	Společnost PLANET Technology Corporation, tímto prohlašuje, že tato 11ac Wireless AP splňuje základní požadavky a další příslušná ustanovení směrnice 2014/53/EU.	Magyar	A gyártó PLANET Technology Corporation , kijelenti, hogy ez a 11ac Wireless AP megfelel az 2014/53/EU irányelv alapkövetelményeinek és a kapcsolódó rendelkezéseknek.	
Dansk	PLANET Technology Corporation, erklærer herved, at følgende udstyr 11ac Wireless AP overholder de væsentlige krav og øvrige relevante krav i direktiv 2014/53/EU	Malti	Hawnhekk, PLANET Technology Corporation, jiddikjara li dan 11ac Wireless AP jikkonforma mal-ħtiģijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 2014/53/EU	
Deutsch	Hiermit erklärt PLANET Technology Corporation , dass sich dieses Gerät 11ac Wireless AP in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 2014/53/EU befindet". (BMWi)	Nederlands	Hierbij verklaart , PLANET Technology orporation, dat 11ac Wireless AP in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 2014/53/EU	
Eestikeeles	Käesolevaga kinnitab PLANET Technology Corporation, et see 11ac Wireless AP vastab Euroopa Nõukogu direktiivi 2014/53/EU põhinõuetele ja muudele olulistele tingimustele.	Polski	Niniejszym firma PLANET Technology Corporation , oświadcza, że 11ac Wireless AP spełnia wszystkie istotne wymogi i klauzule zawarte w dokumencie "Directive 2014/53/EU .	
Ελληνικά	$ \begin{array}{l} \textit{ME THN ΠAPOYSA$, $PLANET Technology} \\ \textbf{Corporation, } ΔHA\OmegaNEI OTI AYTO $11ac Wireless$ \\ \textbf{AP} $YMMOP ΦΩNETAI ΠPOS $TIS $OYSI Ω ΔΕΙS$ \\ A\PiAITHSEIS $KAI $TIS $AOIΠES$ \\ SXETIKES $ΔIATA=EIS$ $THS $OΔHΓIAS$ $2014/53/EU$ } \\ \end{array} $	Português	PLANET Technology Corporation, declara que este 11ac Wireless AP está conforme com os requisitos essenciais e outras disposições da Directiva 2014/53/EU.	
Español	Por medio de la presente, PLANET Technology Corporation , declara que 11ac Wireless AP cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 2014/53/EU	Slovensky	Výrobca PLANET Technology Corporation, týmto deklaruje, že táto 11ac Wireless AP je v súlade so základnými požiadavkami a ďalšími relevantnými predpismi smernice 2014/53/EU.	
Français	Par la présente, PLANET Technology Corporation , déclare que les appareils du 11ac Wireless AP sont conformes aux exigences essentielles et aux autres dispositions pertinentes de la directive 2014/53/EU	Slovensko	PLANET Technology Corporation, s tem potrjuje, da je ta 11ac Wireless AP skladen/a z osnovnimi zahtevami in ustreznimi določili Direktive 2014/53/EU	
Italiano	Con la presente , PLANET Technology Corporation, dichiara che questo 11ac Wireless AP è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 2014/53/EU.	Suomi	PLANET Technology Corporation, vakuuttaa täten että 11ac Wireless AP tyyppinen laite on direktiivin 2014/53/EU oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.	
Latviski	Ar šo PLANET Technology Corporation, apliecina, ka šī 11ac Wireless AP atbilst Direktīvas 2014/53/EU pamatprasībām un citiem atbilstošiem noteikumiem.	Svenska	Härmed intygar, PLANET Technology Corporation , att denna 11ac Wireless AP står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2014/53/EU .	