

WAP-6017/WAP-8021 N300 / AC1200 Wireless Access Point, Controller Managed

User's Manual

V1.0_20170915

Attention:

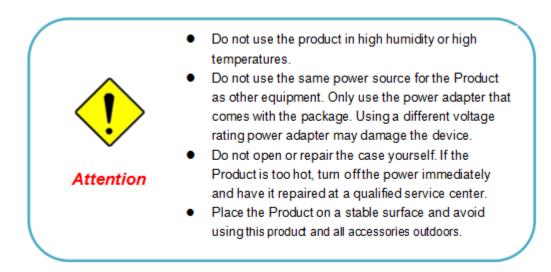
1. Check box contents:

Antenna

QIG

Power Adapter

2. Warning:



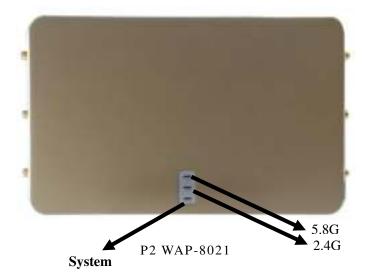
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Chapter 1 Hardware and Operation mode Instruction



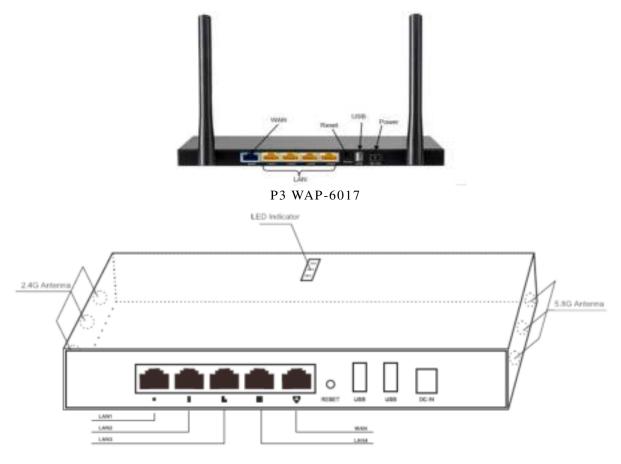
P1 WAP-6017



1.1 LED indicator:

LEDs	Full Name	Description
Power	Power Light	On The Device is powered
Fower	Power Light	Off The Device is not powered
USB USB Light		On USB is connected
5.8G	5.8G WIFI	On 5.8G WIFI is on
2.4G	2.4G WIFI	On 2.4G WIFI is on
System	System Light	Blink operating properly.
System	System Light	On without blink or off operating not properly.

1.2 AP Interface:



P4 WAP-8021

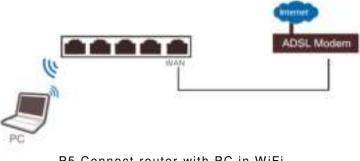
Port	Description
WAN	The WAN port is used to connect to network devices, such as a switch
LAN The LAN port is used to connect to network devices, such as a switch or F	
Reset	With the AP powered on, press the Reset button for 15 seconds until the USB LED blink with green light and System LED on without blink. The AP will restart itself and reset the device to factory default settings.
USB	To connect with USB storage device
Power	To power the device by DC

Chapter 2 Connect Wireless AP with PC

Use can connect the PC with wireless AP by Wireless SSID and LAN cable:

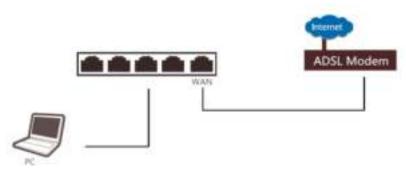
The diagram of wireless connection showed as follow:

Pls note: the default SSID is Wireless2.4G/5.8G, SSID's password is 66666666



P5 Connect router with PC in WiFi

The diagram of LAN cable connection showed as follow:



P6 Connection way

Chapter 3 Login

The necessary information about log in is displayed on the sticker of the product, including the URL, User Name and Pass Word

- 1) Connect the Ceiling AP with computer
- 2) Configure the PC' s local connection IP address as 192.168.188.X (X is number from 2 to 252), subnet mask is 255.255.255.0, follow P7 and P8 to finish.

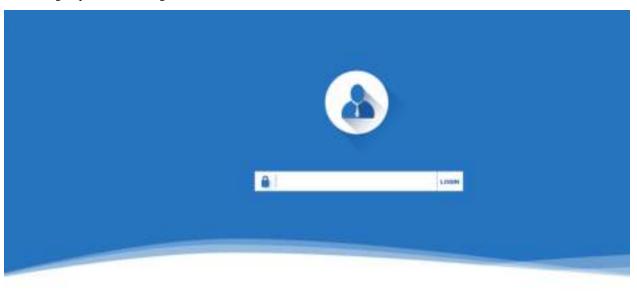


P7 Setting of computer's IP address

AST IN THE REAL	on Properties	
Networking		
Connect using:		
Peabok RTLI16	IC/P//ITTC/P) Fand	PO-E Dipite Bhv
This convection uses th	e following items	Configure
Dent for Max Data for Max Data for Max Data for and Prime Data for and Prime Data Data for any prime Data Data Data for any	Icheduler Ir Sharing for Microsoft col Version 6 (TCP/IP Cology Decovery Map	es per s/0 Daves
La distan		
Intal.	Greater	Properties
Description Transmission Cartrol wide area retryofy p	Protocol (Internet Pro rotocol Iffut provides o prinected networks	tocol. The default

P 8 Setting of computer's IP address

3) Input 192.168.188.253 into IE browser, then pop up the login page, the default login password: admin, then login, pls do following P9



P9 Login

4) After login, then P10 Device Status will be showed;

This page will show the Wireless AP's default operation mode, channel, connection status, CPU usage, Wireless settings, LAN Setting, Wireless AP's Location, hardware/firmware version.



P10: WAP-6017 Device Status



Chapter 4 WEB GUI interface Setting

4.1 Status:

After login, then P12 Device Status and home page will be showed:



P12: WAP-6017 Device Status

levelone		States (Worked) (Advance	
Mode AP Mode	started T	chained 153	() factored
User 0			Switch
Ranning Street 3286425		Software Very	on Build/0160123132306
2.4C Wieless utting	5.35 Wining Letting	Utharthy	AP practices setting
2.65 Whereas uniting	5.8G	Uti arting	AP pushes setting

P13: WAP-8021 Device Status

In this page, show the AP's default operation mode, channel, end user QTY, connection status, CPU usage status, Wireless, LAN and AP location info.

Then in Wireless Setting, GUI configuration page showed as below:

User can configure the SSID, password, band width, channel here, then Apply to finish.



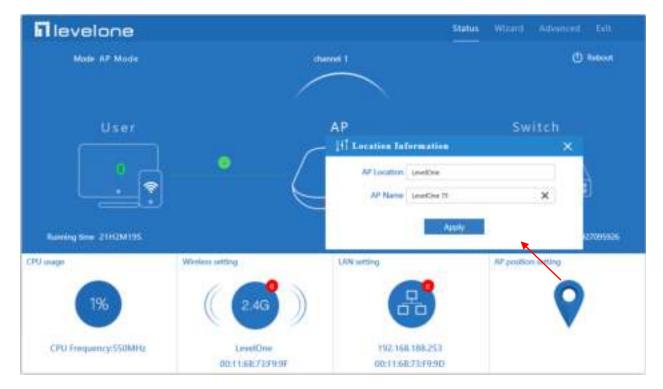
P14. Wireless setting

LAN Setting to configure the DHCP or Fix IP



P15 LAN Setting

AP location setting: can mark where the AP set up, and AP name as P14:



P16 AP Postion setting

4.2 Wizard Configuration:

Wizard: It instruct users to configure wireless AP's operation mode based on needs: there are four operation mode including gateway, repeater, WISP, Wireless AP. Please confirm the operation mode first before configuration starting.

Click Wizard in Status page, will pop up following page to configure the operation mode and there are explanation for each operation mode for better application.



P17 Operation mode

4.2.1 Gateway Mode:

Before Click Gateway mode, confirm your internet will be static IP, PPPoE, or DHCP:

Then will pop up following picture after click it, Please choose the right WAN setting mode, then click next to continue.

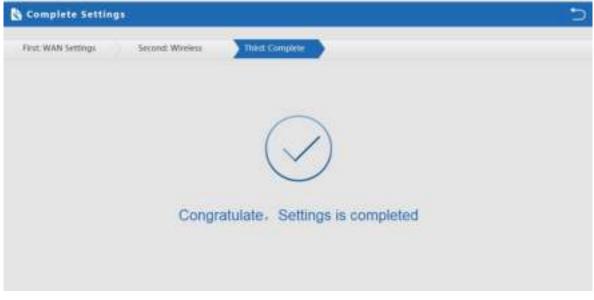
c WAN Settings	Second: Winniess	Third: Complete	398.	
	Rate P	PPPDE(ADBL)	OHCP 2nd	2
	The current acc	cess mode is DHCP.Please click m	of to configure	

P18. WAN setting in Gateway Mode

🗟 Gateway Mode	e					5
First: WAN Settings	Second: Wireles	s Third: Co	mplete			
Wireless Settings						
	Wireless Settings					
WLAN Status	ON wireless analyzer					
59D	LevelOne		Channel	auto	×.	
Encryption	WPA2PSK_TKIPAES	× .	Key	66565665		
		Back		Next		

P19 Wireless Setting in Gateway Mode

When click Next, then will complete the Gateway mode setting and show following picture:



P20 Complete the setting in Gateway Mode

When return to Status, will show wireless router's SSID, internet connection, LAN connection status showed as follow:

Tievelone			Man Witard Advantati Tah
Mode Cateway Mode		charvel 7	C Report
User	1	Router	Internet
User		Kouter	Internet
		9	
	de		
Barries (mail 1100)		Sufferent Version ()	NUMBER WAR ANT I'V BURGETING AT ATAO
ON COMP	Weeksa Jattings	LAN ontropy	WAN untings
14%	(246)	8	e
CPU frequency 550MHz	Weeless 2.45 TRD14D:00:11:52	192.106.186.253 TR.D.3.8D.0D-07-51	

P21 Status in Gateway Mode

4.2.2 WiFi Repeater mode

A. Login the Web management page, click "Wizard", then "WiFi Repeater"

B. Select the AP's SSID want to bridge, take "wireless 2.4G" for example, then input the AP's key, click next to complete.

🗞 Repeater Mode	5
First: Repeater Second: Comple	ete)
Wireless Repeater	
Repeater SSID	Lavel (14 Scor. 47
Authentication	WPAPSK_TIOPAES
Key	1234567980
Band Width	20MHz 🗸
	WDS Passthrough
	Back Next

P22 WAP-6017 Repeater Mode

Click Return button, will back to Status, show Repeater mode data, show fail or success, and user can configure this data in this page if required.

Filevelone		Star	www.www.inc.Adversed
Wate Repeater Wate			() Hereit
User	•	CPE	AP
Renting line 2M103			Crew WAP ADD? VI BURJOST 20034141421
5%	(2.4G))	LAN articipe	((0))
CPU frequency/SS0MHz	Wireless off	132,168,186,253 78,03,80-00-81-50	Ralay connection off

P23 WAP-6017 Status in Repeater Mode

In wifi repeater operation mode, the default is SSID disable. If want to enable SSID, then click Wireless Setting. Pls note, when click wireless relay setting, following page will pop up, you can make change from here easily:

🗞 Repeater Mode	5
First: Repeater Second: Comple	te >
Wireless Repeater	
Repeater SSID	Level J# Scan AP
Authentication	WPAPSK_TKEPAES
Key	1234567890
Band Width	20MHz V
	✓ WDS Pasttheough
	Back Next

P24 WAP-6017 Wireless Relay Setting

WAP-8021

A. Login the Web management page, click "Wizard", then "WiFi Repeater"

B. Scan AP and select the AP's SSID want to bridge, take "wireless 2.4G" for example, then input the AP's key, click next to complete.

Repeater Mode				1
First Reporter S	unit Weiten	hint Complete		
Winters Septeme				
Western Termster	2.45	-	Repeater SUD Westernet	Sarah
Authentication	581		Fer	
Band Wetter	2089	~		
	ET WIN Parament			
	245	1	Next	
		2		

P25 WAP-8021 Repeater Mode 1

C. Configure the SSID and password the AP going to broadcast. If you have repeated 2.4G WIFI, in default setting, you are only allowed to broadcast 5.8G WIFI.

🗟 Repeater Mode			5
First: Repeater	Second: Wireless	Third: Complete	
Wireless Settings 2.45/5.80	5		
5.1	3G Wireless Settings		
SJRCP12 WLAN Status	on (1) wireless analyzer		
SSID	Wireless 5.8G		
Channel	* 5.765 GHz (Channel 153)	· • 1	
Encryption	WPA/WPA2PSK_TKIPAES		
Key	606660066		
	Ba	ck Next	

P26 WAP-8021-Repeater Mode 2

Click Return button, will back to Status, show Repeater mode data, show fail or success, and user can configure this data in this page if required.

Filevelone		(San	Manual Addamand Anti-
Mode Repeater Mode		itemed 46	() Network
User 0 •	•	CPE	AP
Renning time 114325	5.85 Wheelers sattings	Software Wentern Land	One WAR 1022 V2 Build 20100011050
-			
(2.4G))	(5.8G)		((0))

P27 WAP-8021 Status in Repeater Mode

In wifi repeater operation mode, only one band SSID can be broadcast. If want to enable dual band SSID, then click Wireless Setting. Pls note, when click wireless relay setting, following page will pop up. Turn on and there will be dual band WIFI SSID.



P28 WAP-8021 Wireless Relay Setting

4.2.3 WISP Operation mode:

Click WISP operation mode in Wizard, then will pop up the configure page, pls set the WISP operation mode based on the steps showed in picture:

WISP Mode		
Hold, Reporter Second WAN	These Complete	
Wheelens Repeater		
Reporter SSD	Leafler Leafler	
Admittation	WWW3P5K,AB	
Kay .	12.424780	
	Back	

P29 WISP Mode

Configure the right WAN setting in WISP operation mode, then next to complete

ist Repeater	Second WAN	Third: Complete		
	Time P	PPPOE(ADSL)		DHCF
	97 Actives.		Subort Mark	
	Dated Denny		Primary DNS	

P30 WAN setting in WISP mode

Then complete and back to status, will show the connection fail or success, then can configure the data based on request:

F levelone		Stat	a winner Advancer for
Mode WISP			() Ressort
User	(B	outer	Internet
	•		()
Running time: 24/295		Software Version Level	Cross March 4017 with Blass continuous (14142)
OVvide	Weninsis relay settings	LAW lattorige	Wally activity:
5%	((•))		e
CPU frequency:550MPL	Relay connection off	192,166,186,253 78:D3:60:D0:EF:50	
	P31 Status in	n WISP mode	

Remark: When click WAN Setting, will pop up following picture to ask you choose PPPoE, DHCP or Static IP

	PPPOE(ADSL)	
VAN access mode	DHCP	
	Static IP	
	Andre	
	Apply	

P32 WAN setting in WISP mode

4.2.4 AP Operation mode:

Set the wireless data, AP Location info as required, then click next to continue and enter into LAN setting. After LAN setting, complete the AP mode configuration and back to Status:

IP Mode		
Tint Wintes Second : LAN	ThirdbComplete	
Ainebeau Settings		
Wontens Settings		
WLAN States		
EDD GreEne	Orenet ante	
Investion WPA2PSK,AES	Kee tristeree	
aution Information		
AP Constitue	AP Name	
	Text. Next.	
	And the second se	

P33 Wireless setting in AP Mode

🗞 AP Mode		⇒
First: Wireless	Second : LAN Third:Complete	
LAN setting		
	Access Type DHCP from Controller	
	Back Next	

P34 LAN Setting in AP Mode



P35 Status in AP Mode

4.3 Advanced Setting:

In advanced setting, mainly for wireless AP's device status, wireless setting, Networking setting and AP management configure.

Let's Click Advanced Setting in status page, will show return home, Setup Wizard which we showed before. Let's show more in Device Status, Wireless, Network and Management in following pages:

4.3.1 Device Status:

to show the Wireless AP's status, Wireless Status and LAN status. In status, mainly to check the ceiling wireless AP's firmware version, hardware version, uptime info.:

IT Advanced Se	maga	*
-	Marker Western Status 1.49 Status	
(C) here many	[See	
E Done Make	Software Provins, Land South of State of Solidare Indiana	
-	Standard Stream, VII	
E America	Name and	

P36 Device Status

(IT Advanced Set	tings	×
E feren beret	Tartas Western Flatur LAN Stelan	
Default Withert	1 weater take	
Device Status	Western Harter Duarter	
Merimonia Merimonia Merimoperanetti	AND DOCTOR MAC DOCTOR Doctor Doctor Doctor Doctor Doctor	

In wireless status, to show wireless AP's SSID, MAC address for WiFi, Channel, Encryption, Client List info.

P37 Wireless Status

In LAN Status, we can check wireless AP's IP address, Subnet Mask, LAN MAC address and other info showed in following picture.

11 Advanced Ser	ttingi	×
C telenterer	Status Wireless Status UNI Dato	
Setse Wavest	1 Million	
Device Status	LANK IF INC. NO. THE REAL PLAN	
Maragement	Submet Name, 2012/2012 Marcing and an and a strain of the state of the	

P38 LAN Status

4.3.2 Wireless Basic settings:

For wireless basic settings, mainly to configure the wireless SSID, password, band width ,encryption, channel, Multi SSID.

Fl Advanced Sett	lings	*
eff teachers	Real Settings Without MP Access Lattered Androanced Settings	
G literature	(Winter Said Said g	
and these lines	mana base and antisymmetry	
ad Western	SHE Leadler	
IS between	Broadbarr State Chinese & South	
-	I these	
rteat an	Band Math. (2000)	
	Landard and Designation	
	Investment and April 201	
	Net Constanting	
	April	

P39 Basic Setting in Wireless

4.3.3 Virtual AP:

There are 3 virtual AP in 2.4G wireless, if need do multi SSID, then users can configure it showed in following picture:

101	Advanced Sett	ngs		×
셞	Return home	Basic Settlings Virtual AP Access Contr	ol Andvanced Settings	
٥	Settup Wicanii	Vimai AP		
	Device Station	Virtual AP1	Virtual AP2	Virtual AP3
ad	Wirefess	itteine	i Salar 💼	
•	Protocolik.		880 WW8	
•	Masagement	levens	ut 1010 O Deable * Enable	
			water O Dicable # Esable	
		lin lin	anglini none	
			C Reduction	
			A CONTRACTOR OF A CONTRACTOR A CONTRACT	

P40 Virtual AP

4.3.4 Access Control:

Allow or deny the users access into this wireless AP based on MAC address.

H Advanced Sett	knga.			×
2 Autoritaria	Belli: Settings Vetwar Alf	Arena Certral - Andranced S	intlags	
C Testas Winest	Western Access Commit			
El Donellato		Access Control Access de Altres Lidert	Auto	
ad Wreten		Derg linet		
E men				
Mangerent				

P41 MAC Access Control

4.3.5 Advanced Settings:

In this page, will show the regional, mode, RF Power, Max user access...

IT Advanced Sett	ings			×
d hear here	Basic Settings - Virtual AP - Access Control	Andward antings		
C Setue Wood	Advantation			
E Constantion	Suprad	0.9	Dumi(143)	
ad Witten		802 119/0	~	
E less	EF Dutyou Provin	100%		
Management	Partial Desided		2294.23442	
1 - Provedence Second	ATTA Transmitte	2346	#-254F)	
	Act Transformed	64	38-256 pe	
	Basis Maria	100	(198-1624)em	
	Add Lines		(Flarge 0.44.0 ext Brilled)	
	Correspo Threadadd	-	(Bidw-thdw)	
	Approxime and		Une baieber	
		- Auth		

P42 Advanced Setting

4.3.6 Network:

In network, mainly to show the LAN setting and tag VLAN as follow:

In LAN Settings, mainly including static IP and DHCP.

DHCP from controller means you are allowing controller to manage the IP of the AP and end users. That is to say only when DHCP from controller is chosen can the controller find and mange the AP.

Static IP means the AP has the right to manage its own IP address. When the IP segment of the AP is same as controller's, the AP can also be found and managed by controller.

If Advanced Set	tings	×
付 Return home	LOP Settings VLAN	
Sintup Waland	[constrainings	
E Denne Statue	Access Type DEICP from Controller	
and Waters		
Network		
Mesagement		

P43 Network Setting

In VLAN part, need an VLAN switch and make sure the multi SSID is enable, then input the VLAN ID to different SSID.

a Return horoe		VLAN W	AN Sett	ings	winn a	dvances	1 settin	de .						
Setup Wixard	VLAN													
E Device Status	VLAN KXL-404	IL LANT	LAW	1400	1444	WWW	1445	NORT N	4) UNF2	NH N	140		Ni 10000	-
Z AG Winfess		10	0	0	0	0	0	0	0	-0	0	0	0	0
		10		13	0	0	0	.0.		0	0	0		
5.0G Wireless		58			0	0	10	100	TT	11	0	0	1	1
Network		8		17	0	0	10					D)		1
g nerwine		28		Ū.		. 0	UG.	10		0	0	D	0	
Contracted in the second second		液	B	1								D		-
		53					10	100				1		
Management		12	0	0		- 17								
		8	Q.			. D.					0			-
		8	0	11	D	0	10	. 🗆			D.			1

P44 Tag VLAN Setting

4.3.7 Management:

In this part, show the system time, Logs, upgrade firmware, system, user info.

And we show System time, how to upgrade firmware and system page to users:

Get time from NTP server can only be available under Gateway and WISP Mode. Before sync with host, please select your Time zone.

If Advanced Settings		×
C. Return Come	These Logis Upprade Termanere Vertices Notage/Server Over	
(D) Server Woord () Server	to Taxe	
EE Device Status	Sparse from 2019 10 20 54 Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec.	
and Minness	Dense friezzer and and a service of the service of	
(i) distants	HT have be and a set of the set o	
D Management	Report to the state of the stat	
	1.1 Add 1.1	

P45 System Time

In Logs part, you can copy the running history of the device to consult the engineers when you have any trouble.

H Advanced Setting	gs	
付 Return home	System Time Logs Upgrade Firmware System Storage/Server User	
Setup Witard	System Logs	
E Device Status	Remote Log Server	
ad Window	P Astr	
Network	Oct 30 10:37168 T830 kern, info kernel: [0.060000] pid_mani default: 37768 minimum 301 Oct 30 10:37168 T830 kern, info kernel: [0.060000] Mountranche hash table estries: 512	^
Management	Oct 30 031:06 TSD term info Merchi 1 0.000000 Performance counters inja/3EL FMU enabled, 2 32-bit counters available to each CFG, inj 13 Oct 30 037:06 TSD term info Merchi 0.000000 Initialized recycle list for cpu 0.	
	Oct 30 10:37:68 TB30 kern info kernel: [0.080000] MET: Registered protocol family 16 Oct 30 10:37:68 TB30 kern info kernel: [0.080000] gsiochip_add: registered GF15s 0 to 17 on device: ut/29	
	Ort 50 10:37:05 TESD hern.info hernel: (0.090000) MIPS: machine in Qualcomm Atheron AP147 reference band	
	Oct 50 10:37:00 TB30 hern, warn kennel: (0.100000) ar724s-pci ar724s-pci 0: PCIe link is down Oct 30 10:37:00 TB30 hern, warn kennel: (0.100000) registering PCI controller with	
	ia_map_hease unset Over 30 10:37:00 TSDD keens eery keernel: [0.110000] arTina: isvalid MD10 id 1 Over 30 20:37:00 TSDD keens info keensel: [0.320000] bis: eremte slab 82:(bis-Ohgs) at 0 Over 30 20:37:08 TSDD keens info keensel: [0.520000] PCI keen bridge to bus 0000:00 7	
	Aufranh Clear	

P46 Logs

Upgrade Firmware allows you to browse the new firmware in your computer and upgrade. Please do not power off the device during upgrade.

II Advanced Sett	ings						
🛱 Adambana	System Time	DDNS settings	GoS Logs	Upgrade Firmane		ngs/Server	User
C Senap Willerd	1 topostetere						
E Breen that as		Softwee Venion	perform WWP-801	VI. ALAKSITEDA (4942)			
ad Western		Choice file			Drawn		
E listent			Redoor lacks				
() firmed		Party.	Conception of power of	f he been during the up	call brokest Kinspit	ask file system	
Management							

P47 Firmware Upgrade

You are able to backup the current configuration to your PC and restore by applying the configuration file from your PC.

And you can Reset and Reboot the device with just one click.

[I] Advanced Set	tings	×
Station home	System Time DDNS settings QoS Logs Upgrade Timswere System Storage/Server Over	
Setup Wood	Sanchikad Settings	
E Onder Maler	Tertige Tertige	
and Witness	Parties Prove Items	
22 Terfelin	Record Darbardt Stream (Stream	
Timest (And and a second s	
Materierent		

P48 System info

We can share the files in USB disk to public users through SAMBA server.

Storage/server functionality is available only in Gateway mode.

Advanced Setti	ngs						×
🛱 Return Some	System Time Lo	ogs Upgrade P	irmeare S	ystem Sturage/	Server User		
G Setup Wilcord	1 Mutage/Server						
😐 Destre Stime	Dente Lat	Banna	W state	WP-0017.			
air Withins	I. trease the						
Network		Desce Name	15.10	Used THE 200	Available 15.30	Usage 1%	
Management							
				Auto			

P49 SAMBA SERVER

The default IP address of SAMBA server is 192.168.188.253, input <u>192.168.188.253</u> in your PC to run and search it,

picture showed as follow, click sure to confirm. Please make sure your computer has connected with the router.

0	Type the name of a program, folder, document, or inte resource, and Windows will open it for you.	onet
Open:	ANU ARCAUSE I	+

P50 RUN

following picture will be showed, and then the files completely shared in this network.



👃 adbt

P51 Files

In user part, you can change the password for Log in

Advanced Set	tings	*
ff Amenhane	System line Logi Upptabelfermane System User	
S Settle Woord	1 mm	
III Denis Make	CON-Hammonie (
	Amount of the second se	
E Mittant	Control Security (
Di Managaniani		

P52 User Information

Chapter 5 Share Internet and Obtain IP address

automatically

Set computer's TPC/IP as Obtain an IP address automatically, Obtain DNS server address automatically as following picture showed.

the computer will obtain the IP address from router or base station to get Internet.

A Ratific tons.	2 Kaladak Prosense 22 S	Laterant Federal (11359) Properties
Second Lagrent	Torest Advanced	Earled Manual Configuration
Same	Connect any Descent Annual Marco AMERIN POLC Sc This concentration and the Industry Annual Marco Descent for Annual Annual Sciences Marco Descent	Vice ran pai IV antings surgered automatively if you reduced a page to a spacebary. Of entropy of the set your reduced automation for the spacebar IV antings. (1) Up on the behaviory if address
Teores	The second secon	Constanting (M) www.addenation
Franke Dod		Attend.
	2A Creat	OK Cenel

Chapter 6 Trouble Shooting

F 1 The Failure phenomenon and solution

Failure phenomenon	Solution
SYS Indicator off	Pls make sure you are using the right adapter according to the instruction on product label
Can't land to Wireless AP through Web page	Pls check the IP address of computer and Wireless AP to see whether they are in same networking segment, The method is click "start"-"Run" input"cmd", ping 192.168.188.253 to test the Wireless AP connectivity. Reset Wireless AP and load it again; Pls make sure the IP address 192.168.188.253 is not occupied by other device in Wireless AP's networking; Check computer and cable problem, recommend to use 10/100M UTP unshielded cable; Clean up Arp binding from "Start"-"Run" input"cmd" arp –d Clean the IE Brower's temporary files and Cache file。
Wireless AP can't connect with AP (the status display unconnected)	Try to scan the avaliable wireless networking again; Make sure the Wireless AP's wireless standard is correct; (2.4Ghz signal should connect 2.4Ghz.) The Security and passwords are matched between Wireless AP and AP; The signal strength of AP is too weak to connect, should be more than -75dBm;
Can't scan the wireless AP	Scan it several times more; If using 5Ghz to scan, please make sure there are 5G signal existed. Reset the Wireless AP, scan it again after Wireless AP restart;
The connection of Wireless AP and AP is success, but the computer can't share internet	Pls Check the computer's IP address and DNS setting. If it is dynamin, set the network card as automatically obtain. If it is static IP, pls contact with ISP for correct IP address and DNS address.
How to Reset Wireless AP	Press the "Reset" button more than 15 seconds after power on. The Wireless AP will restore factory default after the Wireless AP restart.

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