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KyAir600E

Industrial Wireless AP WEB Operation Manual

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#### Conventions in this Manual

#### 1. Text format conventions

Format descri	ption
<>	The content in "< >" indicates the button name, such as "Click the <apply> button".</apply>
[]	The content in "[]" indicates the window name or menu name, such as clicking the "[File]" menu item.
{}	The content in "{}" indicates a combination, such as "{IP address, MAC address }" means that the IP address and MAC address are a combination.
	To configure and display together.
ÿ	Multi-level menus are separated by "ÿ", such as "StartÿProgramsÿAccessories" means the [Accessories] menu under the [Programs] submenu under the [Start] men
	item.
1	Choose one from two or more and separate them with "/", such as "plus/minus" means addition or subtraction.
~	Indicates a range, such as "1~255" means the range from 1 to 255 .

### 2. Command line format convention

Format	illustrate	
Bold	Command line keywords are the parts that are typed in the CLI configuration, such as "show version" to display the software version of the switch.	
Italic	Command line parameters must be replaced by actual values, such as "show vlan vlan id" displays the VLAN number	as vlan
	VLAN information of the id .	

### 3. Logo Convention

Logo	illustrate
	Reminds you of matters that should be noted during operation and configuration, and supplements the description of the operation content.
NOTE illustrate	Provide necessary explanations for the operation contents.
WARNING WARN	Special attention should be paid to the following points: incorrect operation may result in data loss or equipment damage.

#### Version Notes

Software Applicable Version Release Time Revision Chapter author	Software Applicable Version Releas
--	------------------------------------

1.1.15	Created on 2020-12-	21	Ma Haiyu
		Added WIFI probe, load balancing function description, and updated some particular terms of the second seco	ts
1.1.24	2021-01-12	Text description and pictures	Yang Yan
		Updated some text descriptions and pictures, and added SNMP function description	n
1.1.38	2021-03-30	bright	Yang Yan
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1.1.56	2021-12-15Updated	some instructions and pictures	Yang Yan

**1Product Installation** 

1.1 Interface Description



Figure 1 Schematic diagram of device interface



Figure 2 Schematic diagram of the power adapter interface

#### Table 1 Interface Description

object	Interface Name		illustrate
			Connect the network cable to the "POE" port on the power adapter to power the device.
KyAir600E Device	POE device powe	er supply interface	Power supply and data transmission.
	The LAN data tra	nsmission interface can be connected	to network devices such as switches via a network cable.
Power adapter	The POE device p	ower supply interface is connected to	o the "POE" port of the device through a network cable.
	The LAN data tra	nsmission interface can be connected	to network devices such as switches via a network cable.

### 1.2 Line connection

Installation diagram:



Figure 3 Route connection

## 1.3 Default

Table 2 Main parameters of factory default settings

project	KyAir600E
IP address	IPv4 dynamic (default fallback address: 192.168.10.1)
username	admin
password	123
Wireless Mode	Access Point
Safe Mode	WPA2-PSK
Кеу	kyland 1234

2 Quick Configuration

## 2.1 Login

Before logging in, you need to perform a simple configuration on the computer connected to the device so that the IP addresses of the computer and the device are in the same network segment.

The operation steps are as follows (taking Windows 10 as an example):

1. Right-click the network icon in the taskbar, click Open "Network and Internet Settings", and a window as shown below will pop up.

mouth:		
	← 设置	- • ×
	命 主页	状态
	<b>査抜设置</b> の	网络状态
	网络和 Internet	
	● 状态	
	12 以太网	你已连接到 Internet 如果你的流星套餐有限制,则你可以将此网络设置为按流量计费的
	♀ 拨号	连接,或者更改其他属性。 更改连接属性
	% VPN	显示可用网络
	④ 数据使用量	
	⊕ 代理	更改网络设置
		● 更改适配器选项 查看网络适配器并更改连接设置。
		共享选项 根据所主接到的网络,决定要共享的内容。
		▲ 网络疑律解答 诊断并解决网络问题。
		查看网络属性
		Figure 4 Network status page

2. Click Change Adapter Options -> Ethernet -> Properties to enter the property configuration page, as shown below:

以太	网 属性	
网络	共享	
连接明	讨使用:	
7	Realtek PCIe GBE Family Controller	
		配置( <u>C</u> )
此连接	度使用下列项目( <u>O</u> ):	
	Microsoft 网络客户端	^
	Microsoft 网络的文件和打印机共享	
	QQ管家ARP防火墙.	
	QoS 数据包计划程序	
	n Internet 协议版本 4 (TCP/IPv4)	
	Microsoft 网络适配器多路传送器协议	
	Microsoft LLDP 协议驱动程序	
<pre> </pre>	■ Internet 协议版本 6 (TCP/IPv6)	>
	<b>安装(<u>N</u>)</b> 卸载( <u>U</u> )	属性( <u>R</u> )
描述		
传	榆控制协议/Internet 协议。该协议是默认的 在不同的相互连接的网络上通信。	的广域网络协议,用
	745	⇒

Figure 5 Local Area Connection Properties

3. Double-click Internet Protocol Version 4 (TCP/IPv4) and a window as shown below will pop up:

游指派的 IP 设置。否则,你需要从网	
192.168.10.110	
255.255.255.0	
• • •	
· · ·	

Figure 6 IP settings

4. Set the IP address to the same network segment as the device , and the IP cannot be the same as the device. For example, the default IP configuration of the device is

IPv4 dynamic, if there is a DHCP server in the link, the host can use the "automatic IP address" method; if there is no

DHCP server, the device has a default backup address: 192.168.10.1, in this case, the host IP address can be set to static

IP, such as 192.168.10.110.

5. Enter the default backup IP address 192.168.10.1 of the device in the browser address bar (if there is a DHCP server,

Enter the dynamically obtained address), press Enter, and jump to the page shown in the figure below.

K Y I	AND KyAir60	
8	admin	
	密码	
	中文	~
	受	

Figure 7 Device login interface

6. Enter the password in the password box: 123. Click the login button to jump to the device page (default user name:

#### admin).

2.2 Wizard configuration wireless association

The wizard page can be used to quickly configure the wireless association between two devices (the wireless settings page can also be configured, see Chapter 4 for details).

4.1 ). The device supports four modes: access point, client, access point (WDS), client (WDS), client

The client and access point are used together, and the access point (WDS) and client (WDS) are used together.



#### 2.2.1 Configuring access points

(1) After successful login, you will enter the "Status Display" page by default. Click "Wizard" in the upper right corner to enter the "Wizard-

Network" page, as shown below. The default IPV4 dynamic address is obtained. When the address is not successfully obtained, the default backup is enabled.

The address is 192.168.10.1. The backup address can be switched to static IP type modification. When there is no DHCP server,

To prevent backup IP address conflicts between devices, you can switch the IP type to static and change the device address to a planned address.

	Quick Configuration
② 无线	
	② 无线

IP类型	IPv4 动态 V	e l
备用IP地址	192.168.10.1	
备用子网掩码	255.255.255.0	
备用默认网关	192.168.10.254	
		下一步

(2) Click "Next" to enter the "Wizard-Wireless" page, which displays the basic wireless

Parameters, as shown in the figure below. Modify the wireless parameters of the wireless frequency band to be used, for example, modify the wireless (5G wifi) "Network Name" is 5Glink, and other settings remain unchanged (default "Wireless Mode" is Access Point, "Channel Bandwidth" is 80MHz, Frequency (Channel) is Auto, "Security Mode" is WPA2-PSK, The "Key" is

### kyland1234).

	无线(2.4Gwifi)			无线(5Gwifi)		
无线模式	接入点		无线模式	接入点	~	
网络名称	KyAir600E_2G		网络名称	5Glink		
信道宽度	20 MHz	~	信道宽度	80 MHz	~	
频率(信道)	自动	$\sim$	频率(信道)	自动	~	
输出功率	6	0 25	输出功率		24	
安全模式	WPA2-PSK		安全模式	WPA2-PSK	$\sim$	
密钥	•••••	٢	密钥	•••••	Φ	

Figure 9 Wizard-Wireless

(3) Continue to click "Next" to enter the "Wizard-Complete" page, as shown below. Click the "Finish" button You can also click "Previous" to change the previous configuration.

Ø		3
网络	无线	完成
您已经完成了向导。		
请点击"完成"按钮保存所有的设置。		
		上一步    完成

Figure 10 Wizard-Complete

The access point configuration is complete.

2.2.2 Configuring the Client

(1) After successful login, you will enter the "Status Display" page by default. Click "Wizard" in the upper right corner to enter the "Wizard-

Network" page, as shown below. The default IPV4 dynamic address acquisition, when the address is not successfully acquired, enable the backup address

192.168.10.1, the backup address can be switched to static IP type modification. When there is no DHCP server, be careful to prevent

To prevent backup IP address conflicts between devices , you can switch the IP type to static and change the device address to the planned address.

① ② ② ⑦ ⑦ ⑦ ⑦ ⑦ ⑦ ⑦ ⑦ ⑦ ⑦ ⑦ ⑦ ⑦ ⑦ ⑦ ⑦ ⑦		3 完成
IP类型	型 IPv4 动态 V	
酱用IP地均	上 192.168.10.199	
备用子网掩码	马 255.255.255.0	
备用默认网头	€ 192.168.10.254	
		下一步

#### Figure 11 Wizard-Network

(2) Click "Next" to enter the "Wizard-Wireless" page, which displays the basic wireless parameters of 2.4G and 5G .

As shown in the figure below. Change the wireless mode of the wireless band to be used to client, and configure it to be consistent with the access point you want to associate with.

For example, if you want to access a previously modified 5G band network named 5Glink ,

Enter the point, change "Wireless (5Gwifi)" to client mode, "Network Name" to 5Glink, and "Security Mode" to

WPA2-PSK, the "key" is kyland1234, which is consistent with the access point, and other parameters can remain default.

	无线(2.4Gwifi)			无线(5Gwifi)		
无线模式	接入点	~	无线模式	客户端	$\sim$	
网络名称	KyAir600E_2G		网络名称	5Glink		
信道宽度	20 MHz	$\sim$	信道宽度	自动	$\sim$	
频率(信道)	自动	~	频率(信道)	自动	$\sim$	
输出功率		25	输出功率		24	
安全模式	WPA2-PSK	~	安全模式	WPA2-PSK	$\sim$	
密钥	•••••	0	密钥	•••••	0	

Figure 12 Wizard-Wireless

(3) Continue to click "Next" to enter the "Wizard-Complete" page, as shown below. Click the "Finish" button



	完成
上一步	完成
	上一步

Figure 13 Wizard-Complete

The client configuration is complete. The client can now successfully connect to the access point with the network name 5Glink .

#### 2.2.3 Configuring Access Point (WDS)

(1) After successful login, you will enter the "Status Display" page by default. Click "Wizard" in the upper right corner to enter the "Wizard-

Network" page, as shown below. The default IPV4 dynamic address acquisition, when the address is not successfully acquired, enable the backup address

1	2			 -3
网络	无线			完成
	IP类型	IPv4 动态	$\sim$	
	备用IP地址	192.168.10.197		
	备用子网掩码	255.255.255.0		
	备用默认网关	192.168.10.254		
				下一步

192.168.10.199, the backup address can be switched to static IP type modification. When there is no DHCP server, please note

To prevent backup IP address conflicts between devices , you can switch the IP type to static and change the device address to a planned address.

#### Figure 14 Wizard-Network

2) Click "Next" to enter the "Wizard-Wireless" page, which displays the basic wireless parameter configuration for 2.4G and 5G.

Modify the wireless parameters of the wireless frequency band you want to use, such as modifying the "Wireless

(5Gwifi)", set "Wireless Mode" to Access Point (WDS), "Network Name" to 5GWDSlink, and keep other settings unchanged.

4				无线				
		无线(2.4Gwifi)				无线(5Gwifi)		
	无线模式	接入点	~		无线模式	接入点(WDS)	~	
	网络名称	KyAir600E_2G			网络名称	5GWDSlink		
	信道宽度	20 MHz	×		信道宽度	80 MHz	~	
	频率(信道)	自动	$\sim$		频率(信道)	自动	~	
	输出功率		25		输出功率		24	
	安全模式	WPA2-PSK	~		安全模式	WPA2-PSK	~	
	密钥		0		密钥		0	

Change ("Channel bandwidth" to 80MHz, "Frequency (channel)" to automatic, "Security mode" to WPA2-PSK,

The "key" is kyland1234).

少 図络	无线	(3) 完成
您已经完成了向导。		
请点击"完成"按钮保存所有的设置。		

Figure 15 Wizard-Wireless

(3) Continue to click "Next" to enter the "Wizard-Complete" page, as shown below. Click "Finish"

You can also click "Previous" to change the previous configuration.

Figure 16 Wizard-Complete

The access point (WDS) configuration is complete.

2.2.4 Configuring the Client (WDS)

(1) After successful login, you will enter the "Status Display" page by default. Click "Wizard" in the upper right corner to enter the "Wizard-

Network" page, as shown below. The default IPV4 dynamic address acquisition, when the address is not successfully acquired, enable the backup address

192.168.10.199, the backup address can be switched to static IP type modification. When there is no DHCP server, please note

To prevent backup IP address conflicts between devices , you can switch the IP type to static and change the device address to a planned address.

Quick	Configuration

络	无线		完
	IP类型	IPv4 动态	
	备用IP地址	192.168.10.198	
	备用子网掩码	255.255.255.0	
	备用默认网关	192.168.10.254	

#### Figure 17 Wizard-Network

(2) Click "Next" to enter the "Wizard-Wireless" page, which displays the basic wireless parameters of 2.4G and 5G.

Configuration and wireless encryption options, as shown below. Change the wireless mode of the wireless band to be used to client (WDS),

Configure the network name, security mode, and key that are consistent with the access point (WDS) you want to associate with.

### The 5G band network name is 5Glink access point (WDS), change "Wireless (5Gwifi)" to client (WDS) mode

### Type, Network Name is 5GWDSlink, Security Mode is WPA2-PSK, Key is kyland1234,

Keep it consistent with the access point (WDS) and keep other parameters as default.

	无线(2.4Gwifi)			无线(5Gwifi)		
无线模式	接入点		无线模式	客户薅(WDS)		
网络名称	KyAir600E_2G		网络名称	5GWDSlink		
信道宽度	20 MHz		信道宽度	自动		
频率(信道)	自动		频率(信道)	自动	.~.	
输出功率		25	输出功率		24	
安全模式	WPA2-PSK		安全機式	WPA2-PSK		
密钥		0	密钥	•••••	0	

Figure 18 Wizard-Wireless

(3) Continue to click "Next" to enter the "Wizard-Complete" page, as shown below. Click the "Finish" button

You can also click "Previous" to change the previous configuration.

$\oslash$			3
网络	无线	5	完成
您已经完成了向导。			
请点击"完成"按钮保存所有的设置。			
		上一步    完	成

Figure 19 Wizard-Complete

The client (WDS) configuration is complete. At this time, the client (WDS) can communicate with the access point with the network name 5GWDSlink.

### (WDS) Connection successful.



## Notice:

The client and access point are used together, the client (WDS) and access point (WDS) are used together, do not mix them.

### 3 Status

After successful login, the default display page is the status page, which displays some of the current parameter configurations of the device and real-time

Monitor the current working status, which includes information, statistics, network, and log sub-pages.

### 3.1 Status-Information Page

The Status-Information page displays some of the current configuration information of the device:

Device information: The system information of the device, including the device name, device model, firmware version, running time, device time,

between							
	已设备信息						^
		设备名称 设备型号	工业级无线AP KyAir600E		运行时间	21 时 49 分 0 秒	
		固件版本	V1.1.56 Build 20211203		设备时间	2021-12-04 08:14:46	
				Figure 20 Device information			

Network information: device network related information, including network mode, IP address, etc., which can be found in Settings-Network Settings

#### in configuration.

. .

● 网络信息

 网络模式 网桥模式

 IP类型 IPv4 动态

 IPv4地址 192.168.10.1

 子阿掩码 255.255.0

 默认网关 192.168.10.254

 DNS 8.8.8

 备用DNS 114.114.114

 接口 eth1 (LAN1) eth0 (POE Port) ath01 (WiFi) ath0 (WiFi)

 有线디MAC地址 0.1E:CD:17:54:FA(eth0) 0.1E:CD:17:54:FB(eth1)

#### Figure 21 Network information

Wireless information: Displays the device's 2.4G and 5G wireless information, including network name, wireless mode, frequency, security

Mode, etc. can be configured in Settings-Wireless Settings.

WIFIU			
网络名称	KyAir600E_2G	CCQ/底噪	100% / -109 dBm
无线模式	接入点	连接数量	0
BSSIE	00:1E:CD:17:54:FC	输出功率	25 dBm
国家/地区	中国		
信道宽度	20MHz		
频率(信道	2432 MHz (5)		
802.11模式	802.11b/g/n		
安全模式	WPA2-PSK		
网络名称	Wireless_MGMT_1754FC	CCQ/底噪	100% / -109 dBm
无线模式	接入点	连接数量	0
BSSIC	06:1E:CD:17:54:FC	输出功率	25 dBm
国家/地区	中国		
信道宽度	20MHz		
频率(信道	2432 MHz (5)		
802.11模式	802.11b/g/n		
安全模式	WPA2-PSK		
WiFi1			
网络名称	KyAir600E_5G	CCQ/底噪	100% / -105 dBm
无线模式	接入点	连接数量	0
BSSIC	00:1E:CD:17:54:FD	输出功率	24 dBm
国家/地区	中国		
信道宽度	80MHz		
频率(信道	5260 MHz (52)		
802.11模式	802.11ac		
安全模式	WPA2-PSK		
	Figure 22	? Wireless information	

#### Connection time, etc.

接无线设备信息							
网络名称	RSSI/底噪	IPv4地址	MAC	TX/RX速率	CCQ	802.11模式	连接时长
KyAir600E_5G	-52/-106	192.168.10.101	00:1E:CD:17:55:00	433.0 Mbps / 433.0 Mbps	80%	802.11ac	00:01:28

Figure 23 Connected wireless device information

### 3.2 Status-Statistics Page

This page displays the network interface statistics and traffic statistics of the device, which refers to the amount of data transmitted on the network per unit time.

It is the main indicator for measuring network performance. The specific information is as follows:

Network interface statistics: includes the number of bytes and data packets received and sent by the device's wired and wireless ports.

Ę

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接口名称	MAC地址	接收字节数	发送字节数	接收数据包个数	发送数据包个数	接收数据包错误	发送数据包
有线口							
eth0	00:1E:CD:17:54:FA	985733 Byte	1870547 Byte	5742	10715	0	0
eth1	00:1E:CD:17:54:FB	0 Byte	0 Byte	0	0	0	0
无线口							
ath0	00:1E:CD:17:54:FC	0 Byte	0 Byte	0	0	0	0
ath01	06:1E:CD:17:54:FC	0 Byte	0 Byte	0	0	0	0
ath1	00:1E:CD:17:54:FD	860318 Byte	972396 Byte	5424	4232	0	0

Figure 24 Network interface statistics

Traffic statistics: including wired traffic statistics and wireless traffic statistics, showing the sending and receiving of real-time traffic in the form of charts

#### More intuitive and clear.



~



Figure 25 Traffic statistics

### 3.3 Status-Network Page

This page displays the device's routing table, ARP table, and bridge device list. The specific information is as follows:

Routing table: The routing table stores the paths to the network where the device is located.

To I	Pv4	路	由	表
------	-----	---	---	---

目标网络	子网掩码	默认网关	出接口	跃点数
0.0.0	0.0.0	192.168.10.254	br-lan	0
92.168.10.0	255.255.255.0	0.0.00	br-lan	0
224.0.0.0	240.0.0.0	0.0.0	br-lan	0

Figure 26 IPv4 routing table

占 IPv6 路由表

目标网络	前缀	默认网关	出接口	跃点数
fe80::	64	::	br-lan	256
fe80::	64	:	ath0	256
fe80::	64	:	ath01	256
fe80::	64	:	ath1	256
::1	128	:	lo	0
fe80::	128	:	lo	0
fe80::	128	:	lo	0
fe80::	128	:	lo	0
fe80::	128	::	lo	0
e80::9eb7:93ff:fee6:e6c8	128	::	lo	0
e80::9eb7:93ff:fee8:e6c7	128	:	lo	0
e80::9eb7:93ff:fee8:e6c8	128		lo	0
e80::a0b7:93ff:fee8:e6c8	128		lo	0
ff00::	8	:	br-lan	256
ff00::	8	::	ath0	256
ff00::	8	::	ath01	256
ff00::	8	:	ath1	256

#### Figure 27 IPv6 routing table

ARP table: The device obtains the correspondence between the used IP addresses and MAC addresses within 30 seconds.

P	AD	主
	7111	14

IP地址	MAC地址	接口
192.168.10.11	60:67:20:A9:B5:0C	br-lan
192.168.10.125	AC:BC:32:7E:6E:27	br-lan
192.168.10.233	9C:E8:95:6A:86:2F	br-lan

#### Figure 28 ARP table

Bridge device list: The device obtains the MAC addresses and aging time of other devices that communicate through it within 300 seconds

The corresponding relationship.

state

### **赫接设备列表**

MAC地址	老化时间	
A2:B7:93:EA:0F:8C	0秒	
9C:B7:93:F2:3F:B4	83秒	
9C:B7:93:EA:0F:8C	0秒	
9C:B7:93:EA:0F:8B	0秒	
9C:B7:93:E9:0F:8C	0秒	
9C:B7:93:E8:0F:8C	0秒	
08:57:00:F6:BA:A1	2秒	
08:1F:71:04:69:C6	0秒	

Figure 29 Bridge device list

## 3.4 Status-Log

#### This page displays the log information of the device.

#### 三日志

[info][2021-03-27 03:14:19.173665][rpcd] [exe\_config\_node\_list:854] cmd=/etc/init.d/daemon\_application start [info][2021-03-27 03:14:19.522140][rpcd] [rpc\_vuci\_general\_set:2203] vuci.general set function end! [debug][2021-03-27 03:14:23.474804][rpcd] [show\_bridge:2978] show brname:br-lan [debug][2021-03-27 03:14:23.475201][rpcd] [show\_bridge:2978] show brname:br-mgmtvlan [err][2021-03-27 03:15:39.054591][rpcd] [qcawiff\_get\_assoclist:1505] Unable to get station information [err][2021-03-27 03:17:20.044182][rpcd] message repeated 188 times: [ [qcawiff\_get\_assoclist:1505] Unable to get station information] sysupgrade is not running, firstboot! factory reset! [warning][2021-03-26 17:43:13.338892][rpcd] [rpc\_vuci\_general\_activation:2418] uci looking up ptr failed [info][2021-03-26 17:43:17.771933][rpcd] [rpc\_handle\_login:1457] Session login.

Figure 30 Log information

18

清除

~

### 4 Settings

The settings page allows detailed configuration of the device, including wireless settings, network settings, traffic management, service settings,

System settings.

### 4.1 Wireless Settings

The wireless settings page is shown below:

2						
Training		-		-		
<b>无线网</b> 销(	择 () WiFi0(2.4G)	• WiFi1(5G)	屆用			
无线设置						
设置				V ======		^
国家代	码 中国		频率(信道)	自动		
信道	度 80MHz	$\sim$	自动信道列表		选择	
			输出功率		0 24	
高级						~
802.118	式 802.11ac	~	动态信道选择	•		
最大发送	率 MCS9		温拉开关			
MI	10 2					
	2					
无线接口设置						
				-		
后用	安全種	見式 隠ぷり	网络名称	济加		
KyAir600E_5G	WPA2	-PSK	検闭	)描信号 2.16改	回 删除	
无线网络探针						
	E WIEI0(2.4G)					
	WIFT(5G)					
设置						~
上报间隔	沙) 30		MAC地址过滤开关			
1日1前2	型 接入占和家户端					
1-040	136/ Outrier 300					
577 AZ 80 -	4ch					
服务器	址					



The parameters are described as follows:

Settings : Select the wireless network. The device supports 2.4G and 5G bands .

5G wireless is configured. If it is turned off, the corresponding wireless frequency band is turned off.

Wireless Settings: The Wireless Settings page contains basic settings and advanced settings, which can configure the following parameters:

Country code: Different countries or regions have different standard channels. Select the corresponding country code according to your needs.

Channel Width: Limits the upper and lower limits of the frequency of the signal that is allowed to pass through the channel. (The default setting is automatic in client mode.

That is, automatically follow the configuration of the matching access point)

Frequency (channel): The center frequency of the carrier. When the access point and the client are associated, the frequency must be consistent.

Output power: The power of the wireless signal transmitted by the device. Users can adjust it according to the distance between devices. When the output power is increased

When the signal strength is increased, the transmission distance of the device will be increased.

802.11 Mode: 2.4G wireless only supports 802.11b/g/n, 5G supports 802.11ac and 802.11a/n, default

Think 802.11ac.

Maximum transmission rate: The maximum transmission rate of the device. By setting it, you can limit the maximum transmission rate of the device to ensure that the device

The stability of equipment performance.

MIMO: Users can select 1 or 2 to adjust whether the device works with 1 transmit and 1 receive or 2 transmit and 2 receive when wirelessly operating.

Dynamic channel selection: Dynamic channel selection is a function that detects and avoids interference.

When the interference reaches a certain level, the device will dynamically switch to a channel with less interference. This function takes effect when the frequency is set to "Auto".

After the channel is fixed, this function cannot be configured.

Temperature control switch: The temperature control switch is turned on by default to prevent the CPU temperature from being too high and damaging the device due to high load and other conditions.

<u></u> 王 3								
	无线网络选择	• WiFi0(2.4G)	O WiFi1(5G)		启用			
无线设置								
<u> 2</u>								
	国家/地区	中国	~		频率(信道)	自动	~	
	信道宽度	20MHz	~		自动信道列表	2412 2417 2422 24:	选择	
					输出功率		25	
版设置								
	802.11模式	802.11b/g/n	Ý		温控开关			
	最大发送速率	MCS15	~					
	MIMO	2	~					
线接口设置								
启用	网络名称		安全模式	隐藏网络名称	无线模式		添加	
	KyAir600E_2G	V	/PA2-PSK	关闭	接入点	扫描信号	2.修改 回 删除	
	Wireless_MGMT_1754F	c v	/PA2-PSK	关闭	接入点	2.修改	金 動除	
日线网络探针								
	启用	WiFi0(2.4G)						
		WiFi1(5G)						
置								
	上报间隔(秒)	30			MAC地址过滤开关	• •		
	扫描类型	接入点和客户满	~					
	服务器地址							

Figure 32 Wireless Settings - 2.4G Access Point

Wireless interface settings: You can add, modify, and delete wireless interfaces. You can add up to 8 wireless networks in one frequency band.

Interface. In the 2.4G wireless interface settings, two wireless interfaces are enabled by default.

When the network interface has "MGMT" in the network name, the device can be accessed and managed, but the terminal cannot access the Internet.

This interface is the management wireless interface; the network interface without "MGMT" in the associated network name can be accessed by the terminal.

It also supports Internet access. If you configure the wireless network, click Modify and the following page will pop up.

Notice:
A network with "MGMT" cannot be restored by "Add" after being deleted, but can be restored by the Reconfiguration Wizard.

基本设置					^
	网络名称	KyAir600E_2G	无线模式	接入点	$\sim$
	隐藏网络名称		安全模式	WPA2-PSK	$\sim$
			密钥	•••••	0
高级设置					^
	客户端隔离		最大用户数	127	
	用户限速		最小接入信号限制	-95	
	MAC 过滤				
	802.11r				



Figure 33 Wireless interface settings - normal wireless network

Machine Translated by Google

### KYLAND

	^
小师	$\sim$
A2-PSK	Ŷ
X	入点 'A2-PSK



••••••

密钥

set up

Figure 34 Wireless interface settings - MGMT manages wireless network

The parameters are described as follows:

Notice:

ÿ Network name (SSID): A value used to control access to a wireless network. When other devices try to connect to this device,

Only when the SSID is set to the same can they communicate with each other and establish a wireless connection. The network name only supports 1~32 characters (1

Chinese characters occupy 3 digits), English, numbers, special symbols!@#\$%^&\*()\_+-=<>?/:[[{}: and non-first and last spaces.

ÿWireless Mode: There are 4 wireless modes for the device, including access point, client, client (WDS), access point

### (WDS).



Client mode and access point mode are used together. Client (WDS) and access point (WDS) are used together. Do not mix them.

ÿSecurity mode: Encrypt the wireless connection. Users can choose the corresponding encryption mode according to their security requirements.

The wireless encryption of the devices to be associated with each other must be set to the same, otherwise, the association will fail.

ÿHide network name: Hide the wireless network name (SSID). After checking this function, other mobile phones, computers and other terminals

And the client device will not be able to search the network name (SSID) of the access point device, avoiding being connected by others without affecting

For your own use. (Only displayed on the access point page).

Even if the IP addresses of different clients are repeated, it will not affect the communication (only the access point page is displayed).

ÿ MAC address lock: In a networking environment where there are multiple identical SSIDs , the client device can lock the MAC address by setting

Set the wireless MAC address of the corresponding access point to specify the access point to be associated (displayed only on the client page).

ÿ User speed limit: Limit the uplink and downlink speeds of users associated with the device (displayed only on the access point page,

WDS access points do not support user speed limit function).

ÿMaximum number of users: The access point limits the number of connected users by setting this (displayed only on the access point page).

ÿMinimum access signal limit: The access point sets the minimum signal strength of the associated device.

Devices with a signal strength lower than the set value cannot be successfully associated; even if the association is successful, once the associated signal strength is lower than the set value, the client

The client will be kicked off the access point device. The value range is -95

-1, the larger the value, the higher the signal strength

(Only displayed for the Access Points page).

ÿ MAC filtering: Allow devices in or outside the list to communicate (displayed only on the access point page).

ÿ 802.11r: Enables roaming of wireless terminal devices through the fast switching mechanism (Fast BSS Transition).

(Only supports WPA2-PSK security mode). When using the roaming function: Keep the network name, encryption method, and other security features between access point devices.

The mode and mobility domain are consistent, and the access points can communicate with each other. Other configurations can remain the default and can be customized as needed.

Please make changes on your own

(ⓒ) 无线网络探针						^
	启用	WiFi0(2.4G)				
设置		WiFi1(5G)				^
	上报间隔(秒)	30		MAC地址过滤开关	• •	
	扫描类型	接入点和客户端	$\sim$	MAC地址列表		
	服务器地址				0	
	服务器端口					

#### Figure 35 Wireless Settings - Wireless Network Probe

ÿ Wireless network probe: Enable this function to locate the terminal. When the terminal (such as mobile phone, computer, etc.) is in the device

When within the signal coverage range, the device can detect all messages sent by the terminal and report them to the server for analysis and calculation.

The following parameters can be configured.

ÿReporting interval: the time interval for reporting data to the server.

ÿServer address: The IP address of the server that receives the data.

ÿServer Port: Server port for receiving data.

ÿ MAC address filtering switch: The switch is off by default. When turned on , MAC address filtering will be performed.

Only the device data that meets the address filtering rules will be reported, otherwise it will be discarded. Supports adding up to 5 filtering rules, supports fuzzy filtering,

match.

The following section will describe how to configure the wireless association between two devices (the wizard page can also be quickly configured, see section 2 for details).

Chapter 2.2 ), the device supports four modes: access point mode, client mode, access point (WDS) mode, client

Client (WDS) mode, it is recommended to use client mode and access point mode together, access point (WDS) mode and client

#### (WDS) mode.



4.1.1 Configuring access points

In the "Wireless Network" selection, click the wireless frequency band you want to use, such as "WIFI1(5G)".

(2) 设置		
	无线网络选择 〇 WIFI0(2.4G) 🧿 WIFI1(5G)	启用 💽
	Figure 36 Wireless network se	election

Click the "Modify" button in "Wireless Interface Settings" and configure the corresponding parameters as needed, such as modifying the "Network Name"

For Wireless\_link, click "Finish" to exit the current configuration pop-up window.

网络名称	Wireless_link	无线模式	接入点
隐藏网络名称		安全模式	WPA2-PSK
	-	密钥	
高级设置			
客户端隔离		最大用户数	127
用户限速		最小接入信号限制	-95
MAC 过滤			
802.118			
			取道 🔕 🕋
liok "Sous" in the upper right course The o	Figure 37 Wireless Interfa	ce Settings - Modify SSID	取消 😵 🛛 完成
lick "Save" in the upper right corner. The a	Figure 37 Wireless Interfa ccess point configuration is comp 9 admin 向목	ce Settings - Modify SSID elete. 子 保存 注销	取消 ⊗ 完起
lick "Save" in the upper right corner. The a	Figure 37 Wireless Interfa cosess point configuration is comp e admin 向导	ce Settings - Modify SSID Nete. 子 保存 注销 8 Save	取消 义 完成
lick "Save" in the upper right corner. The ar Configuring the Client	Figure 37 Wireless Interfa ccess point configuration is comp of admin 向系 Figure 3	ce Settings - Modify SSID Hete. 子 保存 注销 8 Save	取消 ⊗ 完成
lick "Save" in the upper right corner. The a Configuring the Client	Figure 37 Wireless Interfa ccess point configuration is comp e admin figure 3 Figure 3 n, click the wireless freque	ce Settings - Modify SSID Hete. 子 保存 注销 8 Save	戰消 ⊗ 完成 2013 as "WIFI1(5G) ".
lick "Save" in the upper right corner. The a Configuring the Client a the "Wireless Network" selection	Figure 37 Wireless Interfa	ce Settings - Modify SSID dete. 子 保存 注销 8 Save	取消 ⊗ 完起 as "WIFI1(5G) ".

Click the "Modify" button in "Wireless Interface Settings" and change the "Wireless Mode" to Client and the "Network Name" to

## Wireless\_link, click Done.

set	up
-----	----

金平设直					
				-	
网络名称	Wireless_link		无线模式	客户端	
MAC地址锁定			安全模式	WPA2-PSK	1
			密钥		
高级设置					
				取消 😣	完成
Fig	ure 40 Wireless interface settings - N	lodify wireless mode and S	SID		
lick "Save" in the upper right corner to c	complete the client configuration				
	admin 同守	保存汪销			
	Figure 41 Sa	ve			
this point, the client can successfully o	Figure 41 Sa	ve he network name Wirele	ess link		
this point, the client can successfully c	Figure 41 Sa	ve he network name Wirele	ess_link .		
this point, the client can successfully c	Figure 41 Sa	ve he network name Wirele	ess_link .		
this point, the client can successfully c onfiguring Access Point (WDS)	Figure 41 Sa	ve he network name Wirele	ess_link .		
this point, the client can successfully c onfiguring Access Point (WDS)	Figure 41 Sa	ve he network name Wirele	ess_link .		
this point, the client can successfully c onfiguring Access Point (WDS) "Wireless Network Selection", click the	Figure 41 Sa onnect to the access point with t wireless frequency band you wa	ve the network name Wirele nt to use, such as "WIFI	ess_link . 1(5G) ".		
this point, the client can successfully c onfiguring Access Point (WDS) "Wireless Network Selection", click the	Figure 41 Sa onnect to the access point with t wireless frequency band you wa	ve he network name Wirele nt to use, such as "WIFI	ess_link . 1(5G) ".		
this point, the client can successfully c onfiguring Access Point (WDS) "Wireless Network Selection", click the	Figure 41 Sa onnect to the access point with t wireless frequency band you wa	ve the network name Wirele nt to use, such as "WIFI	ess_link . 1(5G) ".		
t this point, the client can successfully o onfiguring Access Point (WDS) "Wireless Network Selection", click the @ 梁重	Figure 41 Sa onnect to the access point with t wireless frequency band you wa 网络选择 〇 WIFI0(2.4G) ① WIF	ve the network name Wirele nt to use, such as "WIFI 11(5G)	ess_link . 1(5G) ". 启用		
t this point, the client can successfully c onfiguring Access Point (WDS) "Wireless Network Selection", click the @ 设置	Figure 41 Sa onnect to the access point with t wireless frequency band you wa 网络选择 〇 WIFI0(2.4G)	ve the network name Wirele nt to use, such as "WIFI 11(5G)	ess_link . 1(5G) ". 雇用		
t this point, the client can successfully c onfiguring Access Point (WDS) "Wireless Network Selection", click the @ 양료	Figure 41 Sat onnect to the access point with the wireless frequency band you wa 网络选择 〇 WIFI0(2.4G) ① WIF Figure 42 Wireless n	ve the network name Wirele nt to use, such as "WIFI 11(5G) etwork selection	ess_link . 1(5G) ". 启用 0		

Set the Network Name to Wireless\_WDS and click Finish.

7 <u></u>			
网络名称	Wireless_WDS	无线模式	接入点(WDS)
隐藏网络名称		安全模式	WPA2-PSK
		密钥	
高级设置			
客户端隔离		最大用户数	127
用户聪速		<del>居</del> 小接λ信号踢制	-95
MAC itig			
IVIAC 1918			
			取消 😣 🛛 完
			取消 😣 🛛 完成
Figu	re 43 Wireless interface setti	ngs - modify network name and wireless mode	取消 😣 🛛 完成
Figu ick "Save" in the upper right corner to co	re 43 Wireless interface setti nplete the access point confi	ngs - modify network name and wireless mode iguration.	取消 <table-cell> 完</table-cell>
Figu ick "Save" in the upper right corner to cor	re 43 Wireless interface settin	ngs - modify network name and wireless mode iguration.	取消 <table-cell> 完</table-cell>
Figu ick "Save" in the upper right corner to cor	re 43 Wireless interface settin nplete the access point confi	ngs - modify network name and wireless mode iguration. 向导 保存 注销	取消 🔇 完
Figu ick "Save" in the upper right corner to co	re 43 Wireless interface settin mplete the access point confi e admin	ngs - modify network name and wireless mode iguration. 向导 保存 注销	取消 ⊗   完
Figu ick "Save" in the upper right corner to cor	re 43 Wireless interface settin nplete the access point confi e admin Fig	ngs - modify network name and wireless mode iguration. 向导 保存 注销 ure 44 Save	取消 <table-cell></table-cell>
Figu	re 43 Wireless interface settin nplete the access point confi e admin Figu	ngs - modify network name and wireless mode iguration. 向导 保存 注销 ure 44 Save	取消 <table-cell></table-cell>
Figu ick "Save" in the upper right corner to cor	re 43 Wireless interface settin nplete the access point confi e admin Fig	ngs - modify network name and wireless mode iguration. 向导 保存 注销 ure 44 Save	取消 <table-cell></table-cell>
Figu ick "Save" in the upper right corner to cor Configuring the Client (WDS)	re 43 Wireless interface setti nplete the access point confi e admin Figu	ngs - modify network name and wireless mode iguration. 向导 保存 注销 ure 44 Save	取消 ⊘ 完
Figu ick "Save" in the upper right corner to cor Configuring the Client (WDS)	re 43 Wireless interface setti nplete the access point confi e admin Figu ion, click the wireless	ngs - modify network name and wireless mode iguration. <b>向导 保存 注销</b> ure 44 Save	wा ⊘ 完
Figu ick "Save" in the upper right corner to con Configuring the Client (WDS) the "Wireless Network" select	re 43 Wireless interface setti nplete the access point confi e admin Fig ion, click the wireless	ngs - modify network name and wireless mode iguration. <b>向导 保存 注销</b> ure 44 Save	取消 ⊘ 売

Figure 45 Wireless network selection

Click the "Modify" button in "Wireless Interface Settings" and change the "Wireless Mode" to Client (WDS).

Set the Name to Wireless\_WDS and click Finish.

无线接口设置						^
vice: Click the "Scan	Signal" button at "	Wireless Interface Settir	ngs".			
re are the steps:						
ociation.						
					,	· · · · · · · · · · · · · · · · · · ·
ctions 4.1.1-4.1.4 use t	he manual configu	ration method to config	ure association. In a	dition to the above method	ods. devices can also	be connected throug
an signal association						
		. called any com				
this point the e	ient (WDS) cor	successfully con	nect to the accor	e noint (WDS) with	the network nom	o Wirolose WDS
			Figure 47 Save			
		and the second				
		🖲 admin	向导保ィ	字 注销		
		· · · ·				
ck "Save" in the uppe	er right corner to co	omplete the client (WDS)	) configuration.			
	Figu	re 46 Wireless interface	settings - modify ne	twork name and wireless	mode	
					取消 😣	完成 🤡
	802.11R					
高级设置						
				密锁	E	0
	MAC地址锁定			安全模式	t WPA2-PSK	~
	网络名称	Wireless_WDS		无线模式	式 客户端(WDS)	$\sim$

Figure 48 Scan association-scan signal

2. Find the network name you want to associate on the scan result page, click the circle at the serial number to select it, and click the

Click the "Check" button. Click "Lock" and the client will lock the MAC address of the network name.

扫描结果					×
序列号	网络名称	MAC	频率(信道)	信号强度	
0 1	KyAir600E_5G	00:1E:CD:17:54:FD	5260 MHz ( 52 )	<b>II</b> -51	
0 2	Wireless_5G	9C:B7:93:F5:E7:96	5260 MHz ( 52 )	<mark>1</mark> -62	
○ 3	Mrdasion5	F4:8C:EB:C5:19:FF	5260 MHz ( 52 )	-72	

		重新扫	描	选中		锁定	取	湖
共3条	10条/页	~	<	1	>	前往	1	页

Figure 49 Scan association-select network name

3. If the network name of the access point device is encrypted, a password input box will pop up. Enter the correct password.

Key, click "OK". If you don't want to encrypt, just select Finish.

Key	•••••	0



Enter the key and click OK to jump to the wireless settings page, then click "Save".

When you log in, the wireless mode of the device will automatically switch to client mode, and the encryption method will automatically follow. This method is relatively simple.



Figure 51 Scan association-Save

#### 4.2 Network Settings

4.2.1 Network Settings

You can select the network mode: bridge mode and routing mode, and configure the management VLAN related parameters. Management VLAN

Closed by default, see section 4.2.3 Advanced Settings for detailed instructions.

🜐 网络设置		
网络模式	网桥模式 ~	
管理VLAN		
管理VLAN ID	3	
IP地址	192.168.254.1	
子网掩码	255.255.255.0	
默认网关		

Figure 52 Network settings

#### 4.2.2 Interface Settings

The interface settings are used in conjunction with the network mode in the network settings. When the network mode is selected as bridge mode, the interface settings are as follows:

As shown in the figure below:

KYL	AND				
	● 网络沿著				

- 13- 10- 10- 10- 10- 10- 10- 10- 10- 10- 10		
网络模式	网桥模式	~
管理VLAN	•	
∞ 接口设置		
IP类型	IPv4 动态 ~	
备用IP地址	192.168.10.1	
备用子网掩码	255.255.255.0	
备用默认网关	192.168.10.254	
IPv4 DNS	8.8.8.8	
备用DNS	114.114.114.114	
STP 使能	•	
Figure	∍ 53 Interface Settings - Br	ridge Mode - IPv4 Dynamic
⊗ 接口设置		
IP类型 IPv6	动态	~
CTD 使能		

Figure 54 Interface Settings - Bridge Mode - IPv6 Dynamic

ÿ IP types include static, IPv4 dynamic, and IPv6 dynamic. The device enables IPV4 dynamic by default .

When the device is connected to the DHCP server, it can obtain a dynamically assigned address .

If the IP address fails to be obtained , you can enter the device page for management through the backup IP .

	Notice:
	IPV6 dynamic has no backup address. When the dynamic address cannot be obtained correctly, the device will not be able to enter the page. Please use this function with caution
CAUTION	able.

ÿ When the IP type is static, users can set the IP address, subnet mask, default gateway and DNS according to their needs;

Make sure the IP address is different from that of other devices in the same network to avoid IP address conflicts .

The addresses must be in the same network segment.

ÿ If you want to enable the device to access the external network, you need to connect the device to the external network and modify the device IP and the Internet router in the LAN.

The IP is in the same network segment, the gateway is the IP address of the upper-layer routing port to which it is connected , and the device is connected to the router via a network cable.

⊗ 接口设置		
IP类型	静态	
IPv4地址	192.168.10.1	
子网掩码	255.255.255.0	
默认网关	192.168.10.254	
IPv4 DNS	8.8.8.8	
备用DNS	114.114.114.114	
IPv6地址		
IPv6前缀长度		
IPv4 DHCP服务器		
IPv6 DHCP服务器	禁用 >>	
IPv6 DHCP 服务类型	动态stateless >>	
STP 使能		

#### Figure 55 Interface Settings - Bridge Mode - Static

IPv4 DHCP server: disabled by default, you can set the start address, end address, lease time, gateway after enabling

When mobile phones, computers and other terminals and client devices are wirelessly associated, the device-assigned DNS parameters can be obtained .

### IPV4 address.

IPv6 DHCP server: disabled by default, enabled when the server is selected.

After the device is wirelessly associated, the IPV6 address assigned to the device can be obtained .

STP enable: After enabling, network loops can be eliminated. When a loop occurs, the network link is guaranteed to be smooth.

IPv6 address: You can set the static IPv6 address of the device.

When the network mode is selected as routing mode, it is divided into LAN port settings and WAN port settings. When switching to routing mode, this page

The default bound interfaces of the device LAN and WAN will be automatically displayed in the bridge interface settings .

set up

		Do what where the second secon		
	网络模式	路田模式		
	管理VLAN			
LAN口设置				
	LAN 接口	br-lan	IPv4 DHCP服务器	•
	IP类型	静态 🗸	IPv6 DHCP服务器	禁用
	IPv4地址	192.168.10.1	IPv6 DHCP 服务类型	动态stateless
	子网掩码	255.255.255.0		
	默认网关	192.168.10.254		
	IPv4 DNS	8.8.8.8		
	备用DNS	114.114.114.114		
	IPv6地址			
	IPv6前缀长度			
	STP 使能			
	MTU ( Byte )	1500		
WAN口设置				
	WAN 接口	br-wap	IPv6批社	
	IP类型	静态	IPv6前缀长度	
	IPv4挑計	192.168.1.1		
	子网掩码	255.255.255.0		
	默认网关	192.168.1.254		
	IPv4 DNS	8.8.8.8		
	IPv4 备用DNS	114.114.114.114		
高级				
存在口边里				
侨接口设直				
桥接口名称	ST	端口	注释	添加

#### Figure 56 Interface Settings - Routing Mode

ÿ LAN port settings: For configuration, refer to the interface settings in bridge mode. After enabling routing, it is recommended to use static

#### State address.

ÿ WAN port settings: The IP type of the WAN interface is the way the WAN port obtains an IP address, which can be divided into static,

There are three types: IPv4 dynamic and PPPOE . When setting a static IP , the user needs to manually set it to the same network as the network to be connected.

When set to IPv4 dynamic , the device can automatically obtain the IP address from the DHCP server.

Address; when set to PPPOE, the user needs to fill in the PPPOE Internet account and password, server name,

The device uses dial-up authentication to obtain an IP address through a PPPoE server .



#### Notice:

The LAN port IP address cannot be set to the same network segment as the WAN port IP address. When the WAN port is set to a static IP, it cannot be set to

The existing IP on the network can prevent IP conflicts. The device only allows one gateway. In routing mode, it is recommended to set the gateway on the WAN port.

Easy to connect to the Internet.

4.2.3 Advanced Settings

Advanced settings include bridge interface settings, VLAN, Ethernet interface settings, IPv4 static routing, IPV6 static routing ,

Isolate by, interface.

Bridge interface settings: You can add a bridge interface by yourself and configure the bridge interface parameters when adding it, such as IP address, subnet mask, etc.

The above parameters are optional and can be set according to needs. You can also delete the newly created bridge.

Note that the bridge interface created by the system cannot be deleted. The device contains five interfaces by default: eth0, eth1, ath0, ath01, and ath1.

eth0 corresponds to the LAN port on the power adapter , eth1 is the LAN1 port on the device , and ath0 is the 2.4G wireless interface.

ath01 is the 2.4G management wireless interface, and ath1 is the 5G wireless interface. The bridge position of the interface can be allocated according to needs.

The following figure shows the default display of a bridge interface in routing mode.



#### 桥接口设置

桥接口名称	STP	端口	注释	添加
br-lan	关闭	eth1 ath0 ath01 ath1		1
br-wan		eth0		1

#### Figure 57 Bridge interface settings

VLAN: The VLAN function allows users to add multiple VLAN interfaces on each network interface .

The range is 3 to 4094, and each ID represents a different VLAN. As shown in the figure below, on ath0 (i.e., wireless link), add

#### Add VLAN 10.

#### VLAN

启用	接口	VLAN ID	注释	添加
开启	ath0	10		/ 亩

Figure 58 VLAN

~

The VLAN function needs to be used together with the bridge interface settings. As shown in the figure below, both devices eth0 and ath0 are added.

VLAN, ID 10, and put them in a newly created bridge interface VLAN10 (can also be the default bridge interface).

The eth0 interface needs to be connected to a device that supports VLAN 10 (such as a VLAN switch, and the switch port needs to support VLAN 10 )

You can access the device for management through the bridge address of eth0.10 . For wireless services through VLAN , no

The peer device associated with the line must also support VLAN 10 (for example, add VLAN 10 to ath0 ).

高级				
桥接口设置				^
桥接口名称	STP	端口	注释	添加
br-lan	关闭	eth0 eth1 ath0 ath01 ath1		1
vlan10	开启	eth0.10 ath0.10		一百
/LAN				~
启用	接口	VLAN ID	注释	添加
开启	eth0	10		∕亩
开启	ath0	10		∥亩

#### Figure 59 VLAN settings

Common connection methods are shown in the figure below:



Figure 60 VLAN connection diagram

Management VLAN: After you enable the management VLAN in the network settings and save it, the device wired

and the VLAN of the wireless interface . A new mgmtvlan will be created in the bridge interface settings . Add the created VLAN interface to

In mgmtvlan , after connecting a device that supports VLAN3 (such as a VLAN switch that supports VLAN ID 3 ), you can

Use the IP address set in the management VLAN to access the device page for management, but the management VLAN does not support data service forwarding.

管理VLAN	
管理VLAN ID	3
IP地址	192.168.254.1
子网掩码	255.255.255.0
默认网关	192.168.254.254

台高级

桥接口设置

SIF	海口	7土样	16kDU
关闭	eth0 eth1 ath0 ath01 ath1		1
	eth0.3 eth1.3 ath0.3 ath01.3		
	关闭	关闭 eth0 eth1 ath0 ath01 ath1 eth0.3 eth1.3 ath0.3 ath01.3	关闭 eth0 eth1 ath0 ath01 ath1 eth0.3 eth1.3 ath0.3 ath01.3

VLAN

启用	接口	VLAN ID	注释	添加
开启	eth0	3		
开启	eth1	3		
开启	ath0	3		
开启	ath01	3		
开启	ath1	3		

#### Figure 61 Management VLAN settings

Ethernet interface settings: Users can set the Ethernet interface for eth0 ( LAN port on the power adapter ).

Select the auto-negotiation mode, and the Ethernet port of the device will automatically negotiate the maximum transmission rate according to the connected device; select non

During auto-negotiation, users can set the speed (10M/100M/1000M) and duplex (full duplex) of the device Ethernet port.

#### duplex/half-duplex).

接口设置			
接口名称	模式	速率	单双工
eth0	自动协商 🗸 🗸		
eth1	自动协商 🗸 🗸		

#### Figure 62 Ethernet interface settings

IPv4 static routing: This function can set IPv4 static routing. Click Add to pop up the following page:

出接口	lan	~
目标网络		
子网掩码		
默认网关		
跃点数		

EUG2	完成し
-90/F3 W	7648

Figure 63 IPv4 static route-add

ÿOutgoing interface: the bridge interface of the corresponding network segment.

ÿTarget network: that is, the target network segment.

ÿHop number: the number of routers passed during the transmission process.

添加 IPv4静态路由

ÿConfigure the corresponding parameters and click Finish, as shown below:

静态路由					
出接口	目标网络	子网掩码	默认网关	跃点数	添加
lan	192.168.1.0	255.255.255.0	192.168.10.22	3	∕亩

### Figure 64 IPv4 static routing

IPv6 static routing: This function can set IPv6 static routing. Click Add to pop up the following page:

set up

 $^{\sim}$ 

## KYLAND

-	
沃hn	IDVG超太路由
PUKJUH	IL AORAN

出接口	lan	~
目标网络		
前缀长度		
默认网关		
跃点数		

Min Mill		and and a state of the	
且以"自	×.	元成	$\sim$

#### Figure 65 IPv6 static route-add

After configuring the corresponding parameters, click Finish, as shown below:

6静态路由					/
出接口	目标网络	前缀长度	默认网关	跃点数	添加
lan	2000::	64	2001::1000	3	∥亩

### Figure 66 IPv6 static routing

Interface isolation:

Wired interface isolation: closed by default. When enabled, the wired ports of the devices cannot communicate with each other.

Wireless interface isolation: It is disabled by default. When it is enabled, the wireless interfaces of the device cannot communicate with each other.

#### 接口隔离

接口	启用
有线接口	
无线接口	

#### Figure 67 Interface isolation

#### 4.3 Traffic Management

This page allows you to configure firewall settings, interface speed limits, and QoS priorities.

Firewall: When users want to block certain devices, they can use a firewall to achieve this function. This function is disabled by default.

	J	調	)			
	默认想	观则 丢弃	Ŧ	~		
IP过滤设置						
IP过滤设置					2 M2 100	_

#### Figure 68 Firewall

Note: In the filter settings, the "destination" refers to the device of the currently configured firewall, and the "source" refers to the device or phone at the other end.

For example: the device is directly connected to a computer, and firewall rules are configured on the device. The computer is the source and the device is the destination.

If you cannot distinguish the source and destination, you can configure two relative rules:

ÿFilter the report of the device with IP address 192.168.10.100 on eth0 port (corresponding to the LAN port on the power adapter ).

arts.

The firewall is enabled, the default firewall rules are discarded, and two rules are added to the IP filtering settings.

(1) The target is receiving, the interface is eth0, the protocol is IP, the source IP/mask is 192.168.10.100/32, the destination

The IP/mask is 192.168.10.1 (the device's IP address)/32.

(2) The target is receiving, the interface is eth0, the protocol is IP, and the source IP/mask is 192.168.10.1 (the IP address of the device).

### The destination IP/mask is 192.168.10.100/32.

	尼	調 💽						
	默认为	则丢弃	F	~				
过滤设置								
过滤设置	目标	接口	协议	渡IP	<b>渡IP掩码</b>	目的IP	目的IP掩码	添加
过滤设置 <b>启用</b> 开启	目标接收	接口 eth0	协议 IP	<b>渡IP</b> 192.168.10.1	<b>渡IP掩码</b> 32	目的IP 192.168.10.100	目的IP掩码 32	添加 // 亩

#### Figure 69 IP filtering settings

ÿFilter the report of the device with MAC address 00:00:00:00:00:01 on eth0 ( LAN port on the power adapter ) .

arts.

ÿ The firewall is enabled, the default firewall rules are discarded, and two rules are added to the MAC filtering settings:

(1) The target is receiving, the interface is eth0, the source MAC is 00:00:00:00:00:00.01, and the destination MAC is the device bridge

#### MAC address.

(2) The target is receiving, the interface is eth0, the source MAC is the bridge MAC address of the device , and the destination MAC is

#### 00:00:00:00:00:01.

C过滤设置					1
启用	目标	接口	源MAC	目的MAC	添加
关闭	接收	eth0	9C:B7:93:E8:0F:D6	00:00:00:00:00:01	∕亩
关闭	接收	eth0	00:00:00:00:00:01	9C:B7:93:E8:0F:D6	/ 亩

#### Figure 70 MAC filter settings

Interface speed limit: You can limit the upload and download rates of the device interface, as shown in the figure below.

妾囗限速				
启用	接口	上传速率 (kbit/s)	下载速率 (kbit/s)	添加
开启	eth1	10240	10240	前

#### Figure 71 Interface speed limit

QoS priority: QoS ( Quality of Service) refers to the ability of a network to use various basic technologies to

It is a network security mechanism that provides better service capabilities for specified network communications and is used to solve network latency problems.

#### Delays and blockages.

启用	目标CoS	目标 DSCP	源MAC	目的MAC	VLAN ID	CoS	以太网类型	DSCP	IP类型	源IP	目的IP	源端口 目的端口	添加
关闭	0	无				0	全部	全部	全部				ı d
关闭	1	无				1	全部	全部	全部				1
关闭	1	无				2	全部	全部	全部				í í
关闭	0	无				3	全部	全部	全部				1
关闭	4	无				4	全部	全部	全部				í í
关闭	4	无				5	全部	全部	全部				í
关闭	6	无				6	全部	全部	全部				1
关闭	6	无				7	全部	全部	全部				Ø Ō

#### Figure 72 QoS priority

Target CoS: Target CoS, ranging from 0 to 7, corresponding to the priority;

### Target DSCP: Target DSCP, Differentiated Services Code Point,

The priority is distinguished by the code value, ranging from 0 to 63;

The following are the restrictions, and the messages that pass the restrictions are converted:

Source MAC: Source MAC

Destination MAC: Destination MAC

### VLAN ID: VLAN.

CoS: priority.

Ethernet Type: Ethernet type.

### DSCP: DSCP.

IP Type: IP type.

Source IP: source IP address.

Destination IP: destination IP address.

Source port: refers to the local port.

Destination port: refers to the remote port.

#### **4.4 Service Settings**

Time setting: Set the time of the device, and you can choose different time zones; the time synchronization methods are divided into manual time synchronization and NTP time synchronization.

For manual time synchronization, you can set the time yourself, or click to synchronize with the computer time. For NTP time synchronization, you need to fill in the server address,

The default NTP port and time interval are 15 minutes. At this time, you need to configure the device to access the external network (refer to 4.2.2 Interface Settings).

If the device is set to the NTP server, it will automatically calibrate the device time from the NTP server and display it on the status display page.

🗠 时间设置				
	时区	(GMT+8)北京,重庆,		
	设备时间			
	校时方式 💿	校时方式:手动校时		
	0	校时方式: NTP校时		
	设置时间(	Ð		
		与计算机时间同步		

KYLAND	set up

F	igure 73 Service Settings - Time Settings (I	/anual)
☆时间设置		
时区	(GMT+8)北京,重庆,	
设备时间		
校时方式	<ul> <li>校时方式:手动校时</li> <li>校时方式:NTP校时</li> </ul>	
服务器地址	pool.ntp.org	
NTP論口	123	
校时时间间隔 (分钟)	15	

Figure 74 Service Settings - Time Settings (NTP)

Remote management: When SSH is enabled, use terminal connection software that supports the SSH protocol, for example:

SecureCRT, Xshell , etc. When using the software, fill in the device's IP address, login account and password to log in to the device.

When SSH is disabled, you cannot log in to the device backend.

22				
Figure 75 Service Settings - Rem	ote Management			
https to log in to the device page				
нттр 和 нттр 、				
Figure 76 Service Settings-Web S	ervice			
enabled, please use it with a de	dicated device discovery	r tool. The tool wind	ow will display th	ne discovered
her related information.				
	عوال المحالي         عوال المحالي         المحالي <tr< th=""><th>العالي         Image: Service Settings - Remote Management         https to log in to the device page.         Image: HTTP #1 HTTPS         Figure 76 Service Settings-Web Service         senabled, please use it with a dedicated device discovery         her related information.</th><th>י       י         Figure 75 Service Settings - Remote Management         https to log in to the device page.         י         figure 76 Service Settings-Web Service         senabled, please use it with a dedicated device discovery tool. The tool winder ther related information.</th><th>Image: Service Settings - Remote Management         Inters to log in to the device page.         Image: Settings - Remote Management         Image: Setting - Remote Management</th></tr<>	العالي         Image: Service Settings - Remote Management         https to log in to the device page.         Image: HTTP #1 HTTPS         Figure 76 Service Settings-Web Service         senabled, please use it with a dedicated device discovery         her related information.	י       י         Figure 75 Service Settings - Remote Management         https to log in to the device page.         י         figure 76 Service Settings-Web Service         senabled, please use it with a dedicated device discovery tool. The tool winder ther related information.	Image: Service Settings - Remote Management         Inters to log in to the device page.         Image: Settings - Remote Management         Image: Setting - Remote Management

(④) 设备发现		
	设备发现 🚺	

Figure 77 Service Settings - Device Discovery

Scheduled Restart: This function allows you to schedule a restart of the device. This function is disabled by default.

€ 定时重启		
启用		
重启周期	每天	~
重启时间		
时	23	
分	59	

Figure 78 Service Settings - Scheduled Restart

Remote log: Enable the remote log function and set the IP of the remote log server and the server port to 514.

After saving the application, you can view the relevant log information in real time on the remote log server.

三 远程日志	
远程日志服务器	
远程日志服务器端口	

Figure 79 Service Settings - Remote Log

AC management: After enabling this function, it must be used in conjunction with the AC management system. This function is enabled by default.

Location: The deployment location of the device. You can fill in the device location you want to display on the AC map as needed.

Discovery mode: The way AP discovers AC , which can be divided into manual and automatic.

Timing, you can add the main AC address and backup AC address, the added IP address is the IP of the AC management system .

The device IP and AC IP must be in the same network segment. When going online at Layer 3, if you choose automatic discovery, you need to

Enter the IP address of the AC in the Option 43 field . It is recommended that non-professionals configure the discovery method manually.

DTLS enabled: After enabling, the device sends messages of the DTLS encrypted type, which is more secure.

Client Retrieval: Enable this feature to facilitate AC to retrieve the client when the client is disconnected from the access point and leaves the AC .

When the client is online, it will enter the recovery mode. Click the client recovery function on the AC, and the access point can also enter the recovery mode.

You can then reconnect with it online.
Notice:



The client device can only be connected to the access point device when this function is enabled and the access point device also has the AC function enabled and joined.

The same AC system can be successfully joined to AC.

▲ AC管理						
	启用			发现方式	自动	$\sim$
	DTLS 启用			客户端找回		
	接口	lan	~			
	位置	shanghai				

Figure 80 Service Settings-AC Management

ÿ Ping software dog: used to continuously monitor the operation of the device. The device can ping the target host or device for a long time

If a defined number of replies are not received by the device, the tool will cause the device to reboot.

It is recommended that users enable this function on the side with the wireless mode set to "Client". It is not recommended that users enable this function on the side with the wireless mode set to "Access Point".

Enable this function on one side. This function is disabled by default.

ÿ Ping interval: the time interval between two pings , in seconds.

ÿ Ping IP address: Generally fill in the IP address of the target host or device . "Client" mode enables Ping software

When the client is connected to a dog, you can fill in the IP address of the access point device to which the client is connected .

ÿ Startup delay: When the device system starts, the device will start pinging the target host after the set delay time.

Machine, unit is seconds.

ÿ Ping failure times: When the number of consecutive ping failures reaches the set value, the device will restart.



Ping 软件狗	
启用	
Ping IP 地址	
Ping 间隔 (秒)	3
启动延迟(秒)	50
Ping 失败次数	20

Figure 81 Service Settings - Ping Software Dog

set up

Load balancing: Dynamically adjust the number of terminals that can be associated with each access point device based on the number of associated users and traffic thresholds set

The number of APs can be adjusted to achieve load balancing. In the same balancing group, the master AP (whoever is powered on first ) is the master AP.

The device is turned off by default.

ÿSwitch group ID: used to identify the balancing group.

ÿSwitch group IP: used to identify the balancing group. It is equivalent to the virtual IP address of the master AP .

The device at this IP address reports its own status to facilitate the master AP scheduling balance. This IP address cannot be the same as the device LAN address

Otherwise, the load balancing function will not take effect.

Notice:



Group ID and group IP are unique identifiers of the balancing group. When there are multiple APs in a LAN, these two values must be the same.

In the same load balancing group.

ÿLoad balancing mode: divided into traffic flow and user number mode, that is, balancing devices according to traffic flow or user number.

ÿHigh -load access window time: the total time of the access window.

ÿ High load minimum authentication interval: limit the client access frequency, the window time divided by the authentication interval should be greater than or equal to the window time.

Number of mouths.

ÿ High-load access window times: The maximum number of times an access point denies terminal access.

When the set value is reached, the client will be allowed to access after another request. If the number of times is not reached, the window time and the number of times will be cleared.

zero.

ÿFlow balancing threshold: The maximum flow rate that triggers the load balancing algorithm when the load balancing mode is flow. It is usually equal to the flow rate.

When the flow rate is less than the threshold, the client can access it at will; when the flow rate is greater than the threshold, the current device will be judged.

Check whether the flow difference between the flow rate and the device with the minimum flow rate reaches the set flow balance difference. If it does not reach the difference,

The device allows the client to access; otherwise, it denies the client access.

ÿFlow balance difference: used in conjunction with flow balance threshold.

ÿ User number balancing threshold: The maximum number of users that trigger the balancing algorithm when the load balancing mode is user number. Usually the same as the user number.

When the number of users is less than the balance threshold, the client can access at will; when the number of users is greater than the threshold,

The difference between the number of clients connected to the current device and the number of clients connected to the device with the least number of clients will be determined. If it is less than the user

If the difference is greater than or equal to the number of users, the device allows the client to access; if the difference is greater than or equal to the number of users, the device denies the client access.

ÿ User number balance difference: used together with user number balance threshold.

之 贝戴玛惯		
启用		
切换组ID	51	
切换组IP	192.168.10.200	0
负载均衡模式	流量	]
高负载接入窗口时间(秒)	60	
高负载最小认证间隔 (秒)	5	
高负载接入窗口次数	3	
流量均衡阀值 (Kbps)	1024	
流量均衡差值 (Kbps)	1024	

Figure 82 Service Settings - Load Balancing (Traffic Mode)

- 负载均衡		
启用		
切换组ID	51	
切换组IP	192.168.10.200	0
负载均衡模式	用户数 ~	
高负载接入窗口时间(秒)	60	
高负载最小认证间隔(秒)	5	
高负载接入窗口次数	3	
用户数均衡调值	5	
用户数均衡差值	3	

Figure 83 Service Settings - Load Balancing (User Count Mode)

ÿ SNMP: Simple Network Management Protocol, used to manage devices. You can connect to the device through dedicated network management software.

Internally, you can read and write certain information about the device, and modify its configuration. This feature is disabled by default.

ÿ SNMP v2: uses community name authentication, plain text transmission, and has low security. When using network management software, fill in the following settings:

You can connect to the device by typing the two group names you set.

SNMP				
SNMP v2 设置				,
	启用 🚺	组名称 (只读)	public	
	位置	组名称 (读写)	private	
	邮箱			

Figure 84 SNMP-SNMP v2

 $\ddot{y}$  SNMP v3: Improves the security and management mechanisms based on SNMP v2 .

The corresponding authentication and encryption information can significantly improve security.

Machine Translated by Google

KYLAND				set up
SNMP v3 设置				^
启用		加密	AES	~
用户名	user	密钥	•••••	0

组

认证

密钥

RWPriv

.....

SHA

Figure 85 SNMP-SNMP v3

### 4.5 System Settings

The system settings interface is divided into three items: system settings, firmware configuration, and account management, as shown below:

₩ 系统设置	
设备名称	™ 工业级无线AP
语言	中文 ~
登录超时	オ 不超时 ~
配置文件导出	生成音份
配置文件导入	选择文件 上传备份
一键信息导出	于载
[● 固件管理	
恢复出厂	执行复位
重启	重启
固件升级	选择文件 上传固件
<u> 风</u> 账户管理	
修改密码	
F	Figure 86 System settings
ÿDevice name: Users can set the device name to the name they ne	need according to their needs.
ÿLanguage : Users can select the page display language accordin	ing to their needs.
ÿLogin timeout: When the user does not operate the device for a p	ı period of time exceeding the timeout setting, the page will automatically jump to the login interfa

noodle.

ÿConfiguration file export: Click to generate backup, and all current configurations on the web page will be backed up to a local file.



#### Notice:

The configuration file contents cannot be modified manually.

ÿConfiguration file import: Click Select File, select the previously downloaded configuration file, click Upload Backup, and click OK.

Click Restart Now to restore the device configuration to the state when the configuration file was backed up.

ÿOne -click information export: Click download to export the system log file, which contains the configuration file.

ÿ Factory Reset: Click on the reset button on the web page, and the page will jump to the waiting page.

Switch to the default IP address and the device configuration will be restored to the factory settings.

ÿRestart : Click Restart to restart the device system. After the restart is complete, the configuration remains unchanged.

ÿFirmware upgrade: Click Select File, select the version to be upgraded, click Upload Firmware, and after the firmware is uploaded,

Select whether to keep the configuration file, click OK, and the device will start upgrading.

ÿChange password: When the user password change function is enabled, users can log in to the device web page to change the password according to their needs.

To enhance information security, please change your device password regularly and try not to use a password that is too simple.

Passwords can be numbers, letters, birthdays, etc. Passwords are saved as separate modules. When changing passwords, please do not change other configurations at the same time.

Set.

## **5** Tools

The tool page is divided into two sub-pages: Ping IP and Link Test. The details are as follows:

## 5.1 Ping IP

Enter the IP address of a device and click Ping. The Ping result will be displayed in the collected data , as shown below:



#### Figure 87 Ping IP

## 5.2 Link Test

The Iperf test can test the maximum bandwidth performance and report bandwidth, delay jitter and packet loss. It is divided into customer

Client mode and server mode are used to test the throughput of the wireless end between devices. Device 1 selects "Server".

The lperf interval is the interval for displaying throughput on the web page. Select "Client" for device 2 and fill in the lperf server.

The IP address of device 1. The number of Iperf threads is the number of threads running simultaneously when testing throughput. It is recommended to set it to 10.

The lperf test time is the number of seconds to run lperf . The lperf interval is the interval for displaying the throughput on the web page.

After filling in the data, click the "Start" button to start the test.

tool

三 链路测试			
	Iperf测试类型	客户端模式 >	
	Iperf双向测试开关		
	Iperf服务器地址		
	线程数		
	测试时间(秒)		
	间隔时间(秒)		
		开始	

### Figure 88 Link test - client mode

E] 链路测试	
Iperf测试类型	服务端模式
间隔时间(秒)	
	开始

Figure 89 Link test - server mode

## 6 Logout

Logout is used to log out of the device page. When the user clicks Logout in the upper right corner, the user will be redirected to the login page.



Figure 90 Logout

### 7 Troubleshooting

1. Why can't the terminal access the Internet after being associated with the AP ?

ÿConfirm whether the upper-layer router can access the Internet.

ÿConfirm whether the terminal can obtain the correct IP address. Please re-associate and check whether the terminal IP is the upper-level router.

The allocated network segment address.

2. The terminal cannot connect to the AP?

ÿ The signal strength is too poor. Check whether the transmit power is set to the highest. If there are obstacles blocking the AP, adjust the AP deployment position.

#### Install or add APs.

ÿ Check whether the AP has enabled the weak signal rejection function, adjust the threshold or disable the function.

 $\ddot{\text{y}}$  Check whether MAC address filtering is set and add the terminal's MAC address to the whitelist.

ÿCheck whether the wireless key is correct.

3. How to retrieve the AP 's IP address if I forget it?

ÿ Use the device discovery tool to query.

 $\ddot{\text{y}} \text{Restore}$  the factory configuration and log in using the default backup IP address 192.168.10.1 .

4. How to perform a factory reset?

ÿ System Settings page, Firmware Management > Factory Restore.

5. The download rate is very low after connecting to the AP ?

 $\ddot{\textbf{y}}$  Check whether the network cable is a Gigabit cable above CAT5E .

ÿ Whether the ports of switches and other devices support Gigabit speed.

ÿ Check the interface configuration to see if it is Gigabit full-duplex.

The query path is as follows: Settings > Network Configuration > Advanced > Ethernet Interface Configuration. The recommended configuration is auto-negotiation:

以太网接口设置

接口名称	模式	速率	单双工
eth1	自动协商		
eth0	自动协商		

Figure 91 Query path

ÿ Check the wireless configuration 802.11 mode, channel, width, maximum transmission rate and MIMO quantity. It is recommended to refer to

Parameter settings are shown below.

设置				~
国家/地区	中国	频率(信道)	自动	~
信道宽度	80MHz V	自动信道列表	5180 5260 5745	选择
		输出功率		0 24
高级设置				
高级设置 802.11模式	802.11ac	动态信道选择	•	
高级设置 802.11模式 最大发送速率	802.11ac ~ MCS9 ~	动态信道选择 温控开关	•	

Figure 92 Checking the wireless configuration

ÿ Check the encryption method. When sending the configuration from the AC , please note that the TKIP authentication type will limit the wireless rate to 54Mbps.

It is recommended to use CCMP authentication type. The security mode that can be configured on the device page adopts CCMP authentication type by default.

The page authentication type cannot be configured.

#### Appendix List of Abbreviations

Appendix List of Abbreviations

Serial number definitions and abbreviations		illustrate
1	Access Point (AP)	Access Point
2	Client	Client
3	DCS (Dynamic Channel Selection)	Dynamic channel selection