UT-9021

Wireless AP Repeater

**User Manual** 

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Product introduction

II. Hardware introduction

Appearance and function structure

WIFI indicator light

III. Product features

High speed - 300Mbps

speeds are quicker.

and easy layout

IV. Technical specifications

Wireless technology Equipment interface

Antenna Power supply

RF parameter RF characteristics

Transmission speed

Receiving sensitivity

Transmission power

Size

Net weight

V. Quick start wizard

light is On.

easier.

power output and improving traditional network infrastructures

UT-9021 is an industrial grade wireless AP mainly used for Wi-Fi coverage in factories, stations, marketplaces and hotels etc. This AP is made based on the 2T2R 2.4G wireless MIMO technology and can support up to 32 ends accessing the wireless internet at the same time since the max, band width can reach up to 300Mbps; The customizable external power supply is made based on the 24V-POE supply technology for supporting the 50~70m network cable perfectly, making this router installable even at places without power supply, reducing the installation cost, realizing easier installation, operation and unified management especially in places without

Ground terminal

Button for restoring the factory settings

The UT-9021 is made based on the 2T2R MIMO technology for supporting the wireless access speed of up to 300Mbps that is about 6 times that of the 802.11b/g/n products under the same condition. The upload / download

The UT-9021 supports multiple operation modes such as AP, route and universal relay and therefore can not only serve the wireless coverage in factories, stations, marketplaces and hotels but also be used as a wireless router for

Multiple functions, centralized AC management, automatic allocation of IP addresses, sample

The UT-9021 supports Chinese SSID (up to 4 virtual SSIDs), and thus network users can be separated completely. At the same time this product supports centralized AC management, VLAN management and AP address server, realizing the automatic allocation of AP IP address. Further more, it is also available for remote management and configuration changing, and therefore the installation and layout of large-scale network s are more convenient and

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1 10/100 Mbps self-adaptive wired network interface.

I reset button for restoring the factory settings.

MIMO technology

Optional Korean, Japanese, ETSI, FCC communication channels

2 pcs, 2.4G gain: 3dBi TLB high-gain omni-directional external rubber stick antennas

802.11g

90dBm @ 6Mbps

72dBm @ 54Mbps

Radio1(WLAN1)

 $802.11g(\pm 1.5dBm)$ 

20dBm @ 6~24Mbps 18dBm @ 36Mbps

16dBm @ 48Mbps

16dBm @ 54Mbps

5.01. Connect it on the DC12-24V power supply. The equipment will be OK when the red power supply indicator

5.02. Switch it on and just wait for 30S, search the peripheral wireless networks with a wireless network adapter installed computer or a cellphone and then find the network ID of UTEK AP. When the IP address for the wireless network adapter installed computer or cellphone is selected as 192.168.1.XXX (XXX: 0-252), the

5.03. Network parameter configuration. Connect the equipment to the computer adapter with a piece of network cable. Configure the IP address 192.168.1.XXX (XXX: 0-252) that is at the same network segment as that of the equipment. The default IP address of the equipment is 192.168.1.254, see Fig. 1 for the configuration;

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Internet protocol ver. 4 (TCP/IPv4) property

Obtain the IP address automatically (O) Use the following IP address (S)

Obtain the DNS server address (B)
Use the following DNS server address (E)

Verification setting for quiting this operation (L)

Fig. 1

5.04. Enter 192.168.1.254 in the web browser and press "Enter", and then enter the user name and password in the shown access window. Both the default user name and password are admin, see Fig. 2. Fig. 3

saword are required for the server 192.168.1.254 of the SenafWiFi.

word will be sent from the server unsafely (No any basic aut

IP address (I)

shows the configuration interface after log-in.

Windows Safety

admin ....

记住我的凭握

Varning: Your user name and passwor as been provided for safe connection).

警告: 此服务器要求以不安全的方式发送您的用户名和密码(没有安全连接

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300M Wireless AP/Router

Fig. 3 Configuration interface

03

Fig. 4 Gateway mode

Universal relay mode: Long distance transmission. If the original wireless signals can not reach the target, just select the universal relay mode of the UT-9021. The equipment is connected to the Internet wireless router through the wireless mode. For computers, the Internet can be visited through

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Fig. 5. Universal relay mode AP mode: When the equipment is operated under this mode, the equipment can be connected to the Internet router with the network cable. For cellphones or computers etc., the wireless equipment can be

Fig. 6 AP mode

5.06. Basic information configuration for wireless network. Main page - wireless coverage. This option has

5.07. DHCP service. Obtaining IP dynamically. Under the Advanced setup - Network setup, the IP address

5.08. Under the WEB configuration interface, when the Advanced setup - Equipment management is clicked,

System configuration management: The system settings and factory settings can be recovered or

Administer setup: The system administer and password can be set here. Both the default user name

System log: The log service can be set as opened or closed and the system log files can be checked. O Software upgrade: Through upgrading the software, the performance of the equipment can be

System time: The time information of the router can be set and the time interval of the system can

5.09. The factory settings can be recovered by pressing the "RST" for 6S. The soft recovery can also be selected - configuration page - Advanced setup - Equipment management - System configuration

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Table 1 FAQs and their handling method

Try to log in after the factory settings are recovered;

Check the IP address of the computer for being at the same segment as

that of the equipment. (The IP address of the computer shall not

be192.168.1.254 ). Check if the equipment is connected through ping

Check if the IP address of the equipment is used by other equipment;

Check the network cable of the computer for being in good condition. Click the wireless setup and basic setup under the WEB interface of the

Check the DHCP server of this system for being used under the gateway

Check this computer for being connected with the superior network

If the dynamic IP log-in mode is selected, enter the WEB configuration

interface. Check the selected network type for being the dynamic IP user

If the ADSL broadband network is used, enter the WEB configuration

interface. Check the selected WAN is set as the PPPOE user under the network setup - WAN setup and check the password for being correct. If you are a fixed IP address user, enter the WEB configuration interface.

Check the selected WAN for being set as the static IP user under the network setup - WAN setup, and check the entered data for being correct;

Check if the IP address of the computer is set as to be obtained

Unit

Set

Pcs

Pcs

Pcs

Pcs

Pcs

Pcs

Pcs

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Qty.

1

1

I

I

2

3

6

2

1

equipment. Enter the desired cipher key in the password bar;

Recover the factory settings. Default password: 12345678.

correctly under the AP and relay modes.

under the network setup - WAN setup;

the equipment can be restarted through exporting the system configuration and importing the

setup has options of static and dynamic IP addresses, which can be obtained as required.

QoS setup: Bandwidth allocation setups etc. for each IP or IP segment are allowed.

connecting to the equipment through the wireless mode, see Fig. 5.

connected to the Internet through the UT-9021, see Fig. 6.

SSID number, channel, eigher mode and eigher key configuration.

Router setup: The routing rule can be added manually.

improved and the functions can be stabler and perfecter.

Handling method

1.

2.

3. 4.

1.

2.

1.

2.

1.

2.

3.

4.

Name

UT-9021 main machine

CD of the User Manual

Plug-pull power supply terminal Guide rail support

stator

M3 screw

M3 grub screw

Antenna

Acceptance certificate

automatically.

mode;

IP

obtain the

Recover the factory settings

192.168.1.254;

the following can be configured:

backup configuration files here.

and password are admin.

be optimized.

management.

VI. Handling of FAQs

and

Failing to access through the

Wireless password missed

Failing to connect the Internet

password

FAQ

missed

WEB page

Failing to

Packing list

No.

1

2

3

4

5

6

7

8

9

address

User name

O DDNS setup: The DDNS rule can be set here.

5.05. Work mode configuration. Main interface - Advanced setup - work mode. Options under the work mode are gateway mode, universal relay mode and AP mode, which can be selected as required.

 Gateway mode: You can visit the Internet through wire dialing (PPPOE) / dynamic IP, static IP. The wire / wireless network can be accessed by using the UT-9021. The Internet is connected to the WAN interface of the equipment with the network cable. For computers, the wireless connection equipment

can be used, see Fig. 4.

Internet

位于 SerialWiFi 的服务器 192.168.1.254 要求用户名和密码。

http://192.168.1.254/

Windows 安全

的基本认证)。

http://192.168.1.254/

Subnet mask (U) Default gateway (D)

Preferred DNS server (P) Standby DNS server (A)

If the network supports this function, you can obtain the automatically assigned IP settings, otherwise the appropriate IP settings should be obtain them the administer of the network system.

192 168 1

-11

Advanced (V)

Cancel

▼ 4 × Bing

- S.S.

wireless network connection will be allowed. The password for wireless connection is 12345678.

802.11b

95dBm @ 1Mbps

- 90dBm @ 11Mbps

802.11b(±1.5dBm)

20dBm @1~11Mbps

Multi-operation mode (AP, routing and relay) for users with different requirements

household PPPoE dialing as well as for full Wi-Fi coverage through relay service.

802.11N, 2T2R 300M

1 3p plug-pull socket

802.11n(2.4GHz)

802.11n(2.4GHz)(± 1.5dBm)

DC12~24V /1A

802.11b/g/n: 2.4~2.4835GHz

300 Mbps

20dBm@

-90dBm @ MCS0

-70dBm @ MCS7

-90dBm @ MCS8 -68dBm @ MCS15

MCS0~2/MCS8~10

18dBm @ MCS3/MCS11 18dBm @ MCS4/MCS12

18dBm @ MCS5/MCS13

16dBm @ MCS6/MCS14 16dBm @ MCS7/MCS15 150mm×100mm×37mm