

Test Model: CP2-300

CP2-300

User Manual

CONTENT

Introduction.....	3
1. Terms of Use.....	3
Overview.....	3
Device Management.....	3
1. Interface Instruction.....	3
2. LED Indicator Instruction.....	4
3. Pairing Configuration.....	4
(1) One-to-one Pairing.....	4
(2) Radio Channel Comparison Table.....	5
WEB Management.....	5
Status.....	5
1. Overview.....	5
Bridge.....	6
1. Bridge Configuration.....	6
(1) Bridge Access Point.....	7
(2) Bridge Client.....	8
Network.....	8
1. Network Configuration.....	8
(1) Automatic acquisition.....	9
(1) Static IP.....	10
System.....	10
1. Change Password.....	10
2. Reset / Update.....	11

Introduction

Thank you for choosing UTEPO! This user manual is designed to guide you through installation, management and maintenance of product.

1. Terms of Use

The “equipment”, “device” and “product” refer to the bridge if there is no other special instructions. The configuration information, such as IP address, mentioned in the user manual is just for reference, please configure the value according to practical application. Please note that the product pictures showed in the manual are for reference, we would update both hardware and software from time to time.

Overview

The bridge is integrated with both bridge mode and gateway mode, which is suitable for different environment, such as elevator, power high voltage line, wharf, highway etc.

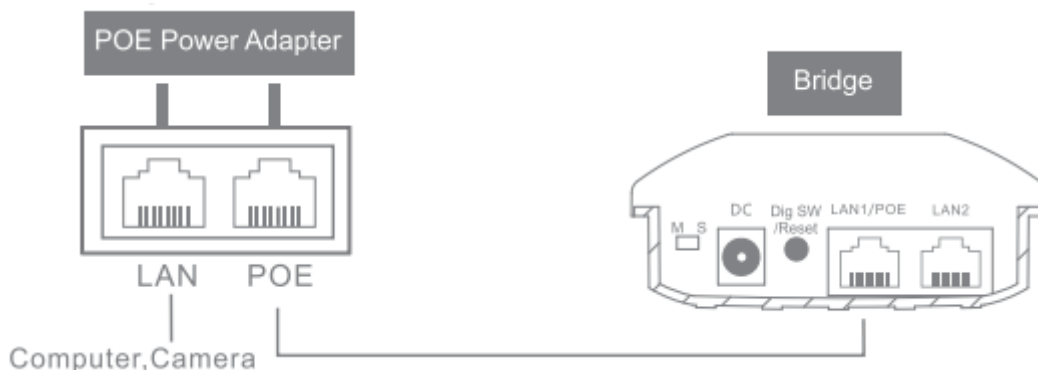
Feature:

Provide 2*10/100Mbps RJ45 ports.

Support launching function of radio signal.

Device Management

The user manual is for use with several models, the configuration steps are same.



1. Interface Instruction

DIP Switch (M S) : Bridge Access Point, Bridge Client

DC: Power input port, DC12V/1A.




Digital Switch / Reset: Value 1 would be added by short pressing (the matching

configuration time is about 5s), reset to factory defaults by pressing in 15s.

LAN1/POE Port: PoE port for handling all user traffic and powering the device. The port is used as the LAN port under bridge mode, and as WAN port under gateway mode.

LAN2 Port: For handling all user traffic, could connect with PC, cameras and switches.

2. LED Indicator Instruction

SIG1, SIG2, SIG3, SIG4	<p>Signal Indicator: Master AP: Output Power Indicator</p> <p>< 25% (SIG1 ON)</p> <p>25%~50% (SIG1-SIG2 ON), 50%~75% (SIG1-SIG3 ON), 75%~100% (SIG1-SIG4 ON).</p> <p>Slave AP: Signal Strength Indicator Failure Connection: Flowing Successful Connection: 0~-65dBm (SIG1-SIG4 ON), -66~-75dBm (SIG1-SIG3 ON), -76~-85dBm (SIG1-SIG2 ON), ≤ -86dBm (SIG1 ON).</p>
LAN1	<p>Connected and data is under transmission (Flicker) Disconnection (OFF)</p>
LAN2	<p>Connected and data is under transmission (Flicker) Disconnection (OFF)</p>
	<p>The device is under normal operation (Flicker)</p>
	<p>Power ON (ON) Power OFF (OFF)</p>
	<p>Digital Switch / Reset: Value 1 would be added by short pressing (Value Circulation: 0-9-A-C)</p>

3. Pairing Configuration

(1) One-to-one Pairing

- ①Configure one to bridge access point, and the other one to bridge client.
- ②Short pressing the “Digital Switch / Reset”, Value 1 would be added by short pressing (Value Circulation: 0-9-A-C).
- ③Set the same channel value for both two devices, then finished the pairing.

(2) Radio Channel Comparison Table

Value	0	1	2	3	4	5	6	7	8	9	A	b	C
Channel No.	1	2	3	4	5	6	7	8	9	10	11	12	13

Note: Please connect the device with the standard power cable in the package. The device is support powered by PoE, which is convenient for wring deployment.

WEB Management

WEB Management Login Steps:

1. Please connect the PC to the LAN port of the device.
2. Set static IP address as 169.254.254.253/16 to the PC
3. Open the browser and input the IP address 169.254.254.254 to enter the login UI.
4. Input the user name and password to login (Default user name/ password: utepo/ utepo)

Status

1. Overview

The page is including the status of system, bridge and interface, shown as below.

The screenshot shows the UTEPO WEB Management interface. The left sidebar contains navigation options: Status, The overview (selected), Bridge, Network, and System. The main content area is titled 'The overview' and includes a language selector for English/中文. The system state section displays the following information:

Network mode	The bridge model	CPU	1%
Model/Version	CP2-300 / V1.0-201811161432	Memory	1731KB / 2758KB (62%)
Local Time	1970-01-01 00:03:29	Uptime	3m29s


The Bridge Status section displays the following information:

Wireless	Bridge access point	Channel	1
Bridge SSID	mt_0x0_1	Bandwidth	40
Power	100%		


The overview English

Peer Device MAC	Receive Negotiation	Send Negotiation	Signal strength
No data available in table			

☰ Interface Status

 **lanrelay**

Type:dhcp
Address:--
MAC: 18:40:A4:D2:AB:97
Gateway:--
DNS 1: --
DNS 2: --
RX:170.42KB(1393 Pkts.)
TX:1.81MB(1817 Pkts.)
Uptime:2m31s

 **lanrelay**
100Mbps Full-Duplex

Type:dhcp
Address:--
MAC: 18:40:A4:D2:AB:97
Gateway:--
DNS 1: --
DNS 2: --
RX:170.42KB(1393 Pkts.)
TX:1.81MB(1817 Pkts.)
Uptime:2m31s

Note: the information of system status and interface traffic status would be updated in every 5 seconds.

- ①CPU: Showing the current occupied CPU
- ②Memory: Showing the current occupied memory.

Bridge

1.Bridge Configuration

User can set the wireless mode to bridge access point or bridge client from this page.

The screenshot displays the UTEPO Bridge configuration interface. On the left is a sidebar with navigation options: Status, Bridge (selected), Network, and System. The main area is titled 'Bridge' and contains a 'Bridge' sub-section with the following settings:

- Wireless: Bridge access point, Bridge client
- Bridge SSID: ?
- Encryption: ▼
- Bridge Password: 🔒 ?
- Wireless protocol: ▼
- Wireless bandwidth: ▼
- Wireless channel: ▼
- Wireless TX power: ▼

A blue 'Save' button is located at the bottom of the configuration area.

(1) Bridge Access Point

- ① Bridge SSID: name of bridge SSID.
- ② Encryption: Encryption type of SSID (N/A, WPA2-PSK, WPA-PSK)
- ③ Bridge Password: Need to enter the same password to ensure the pairing.
- ④ Wireless Protocol
- ⑤ Wireless Bandwidth: 20MHz, 40MHz
- ⑥ Wireless Channel
- ⑦ Wireless TX Power: 100%, 75%, 50%, 25%, 10%, 5%

(2) Bridge Client

① Bridge SSID: Name of Bridged SSID, support manual filling or click “scanning bridged network” to choose the SSID.

② Encryption: Encryption type of Bridged SSID (N/A, WPA2-PSK, WPA-PSK)

③ Bridge Password: Password of bridged device.

④ MAC: Used to bridge locked MAC address devices when the same bridge SSID configuration exists

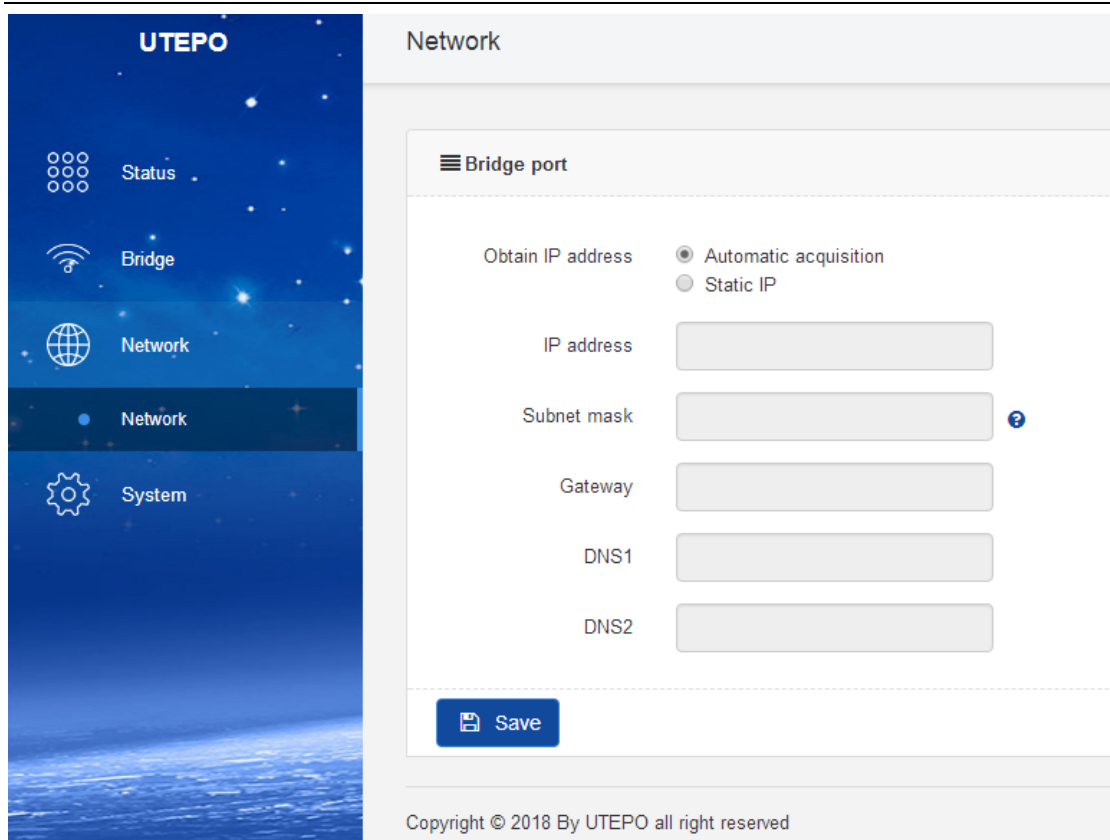
⑤ Wireless Channel: Same with bridged channel

⑥ Wireless TX Power: 100%, 75%, 50%, 25%, 10%, 5%

Network

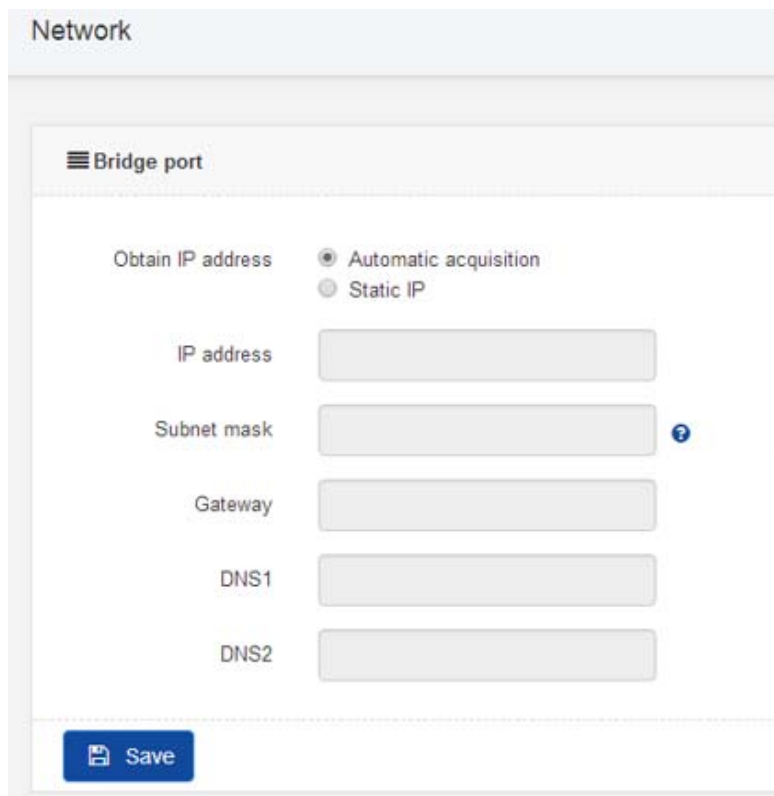
1. Network Configuration

User can configure the access type of network in this page.



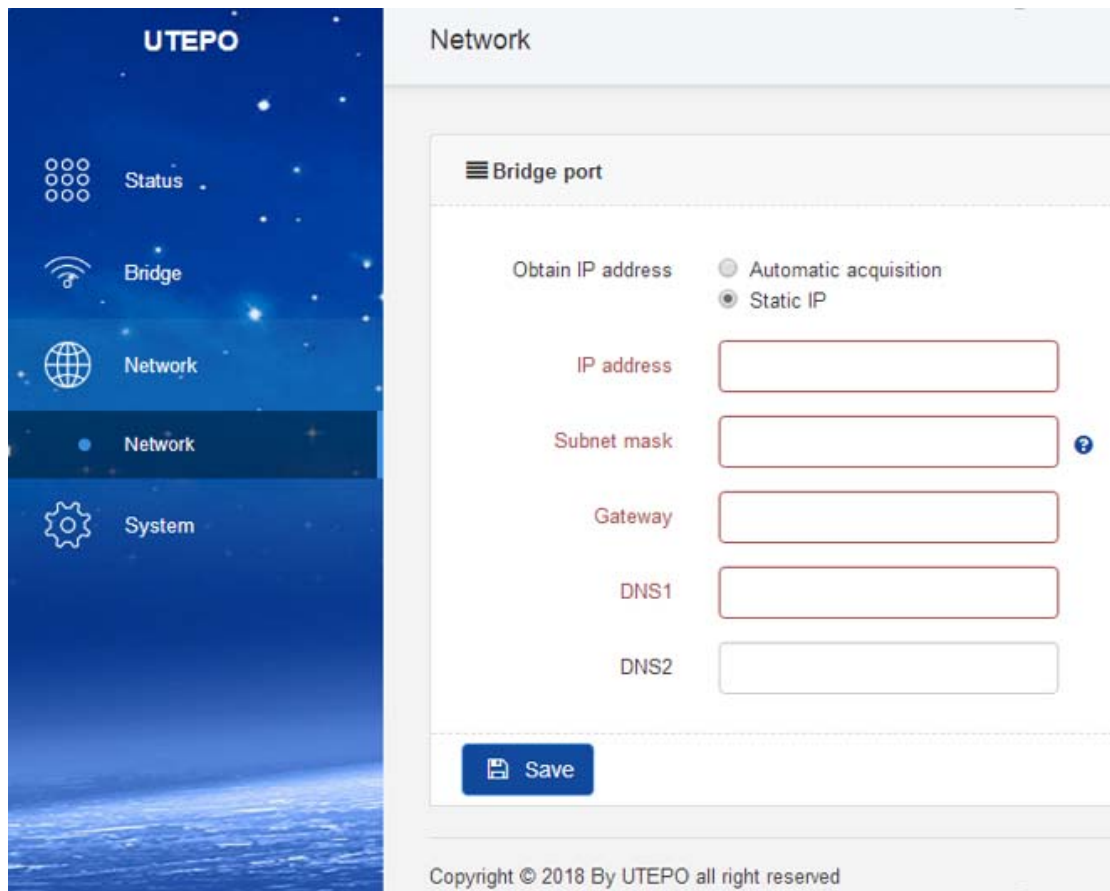
(1) Automatic acquisition

It can automatically obtain the IP address assigned by the superior gateway under the mode.



(1) Static IP

It needs the manual configuration for the IP address, Subnet mask, Gateway, DNS.



The screenshot displays the UTEPO Network configuration interface. On the left is a navigation menu with options: Status, Bridge, Network (selected), and System. The main content area is titled 'Network' and contains a 'Bridge port' section. Under this section, the 'Obtain IP address' option is set to 'Static IP' (indicated by a selected radio button). Below this are five input fields: 'IP address', 'Subnet mask' (with a help icon), 'Gateway', 'DNS1', and 'DNS2'. A 'Save' button is located at the bottom of the configuration area. The footer of the interface reads 'Copyright © 2018 By UTEPO all right reserved'.

System



It mainly includes two parts of change password, Reset/Upgrade.



1. Change Password


Change the password according to the prompt.


Change Password

Change Password

Old password  

New password  

Confirm password 

 Save

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Note: it is recommended to change the router login password for network security.

2. Reset / Update

User can reset the device to defaults or upgrade through firmware in this page.

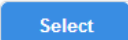
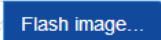

Reset/Upgrade

Restore

Reset to defaults  

Local Upgrade

Keep settings

Firmware image  No files selected  

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①Reset: Reset the device to factory default.

②Flash image: Click “Select” to upload the firmware to upgrade. When Click “Keep settings”, the system would keep the all current settings, otherwise it will reset to factory default.

Warning:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

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

NOTE: This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter