

Installation and Configuration Quick Guide

PS2021

Wireless Network Print Server

(2 Eth + 2 USB)

Package Contents

Before installing your PS2021 Network Print Server, please verify the kit contents as following.

- 1 x PS2021 Network Print Server
- 1 x power adapter(12V DC/1A)
- 1 x *Quick Start Guide*
- 1 x Ethernet Cable
- 1 x SMA Wi-Fi antenna (stubby)

***If any of the above items is missing or damaged, please contact your sales representative.**

Environmental Requirements

- Input voltage: 7.5V-32V(standard DC12V/1A)
- Operating temperature: -30 to +70 °C
- Storage temperature: -40 to 85°C
- Relative humidity: < 95% (no condensation)

Hardware Introduction

1. Overview



2. LED Indicators

Name	Color	Status	Description
PWR	Green	On	Router is powered on
		Off	Router is powered off
WAN	Green	On, blinking	Link connection is working
		Off	Link connection is not working
LAN	Green	On, blinking	Link connection is working
		Off	Link connection is not working
WiFi	Green	On, blinking	WiFi is powered on
		Off	WiFi is powered off
LINK	Green	On, blinking	Link is powered on
		Off	Link is powered off

3. Reset Button

After powered up the router, press and hold the RST button for 10 seconds, and release the button to return the print server to factory defaults.

Hardware Installation

1. Attach External Antenna (SMA Type)

Attach external SMA antenna to the server's antenna connector and twist tightly.

2. Mount the Print Server

The print server can be placed on a desktop or mounted to a wall. Use 2 pieces of drywall screws to mount the print server with the wall mounting kit on the wall.

Print Server Network Configuration

1. Log in the Server

To log in to the management page and view the configuration status of your server, please follow the steps below.

1) Connect an Ethernet cable to the LAN port of the server, and connect the other end of the cable to your computer.

2) Configure PC obtain an IP address automatically from "Local Area Connection", take Win 10 for example:

A) Click **Start > Control panel**, click **Network and Internet**, click **Network**

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3. Connect the Print Server to a Printer

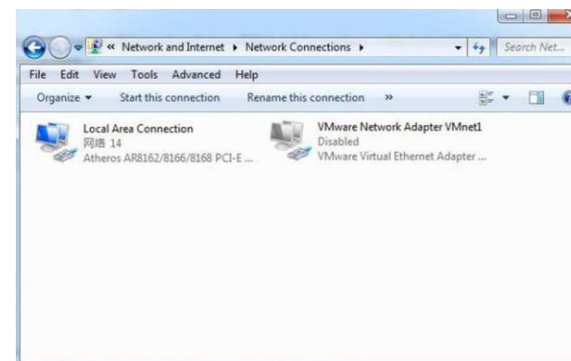
Connect a USB cable to the USB port of the server, and connect the other end of the cable to your printer.

4. Power Supply

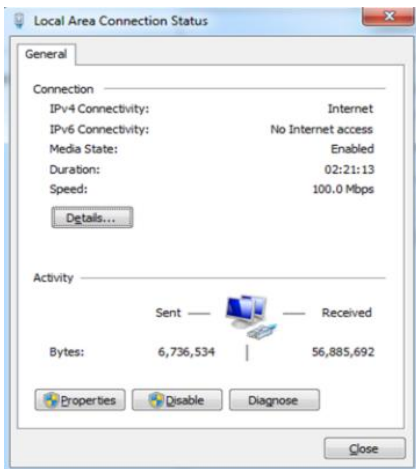
Connect the power adapter to the power input interface of the router.

Note: Voltage input is during 7.5V-32V DC.

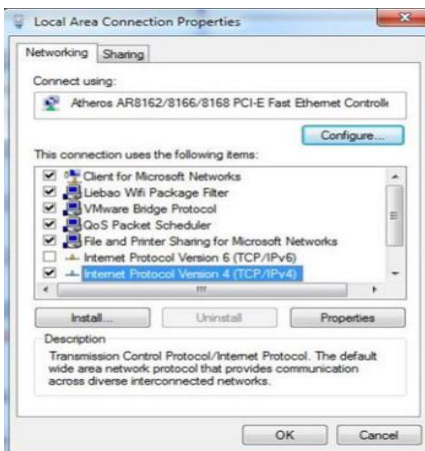
and **Sharing Center**, click **Change Adapter Settings**, and then double-click **Local Area Connection (Ethernet)**.



B) Click **Properties** in the window of **Local Area Connection (Ethernet)** Status.

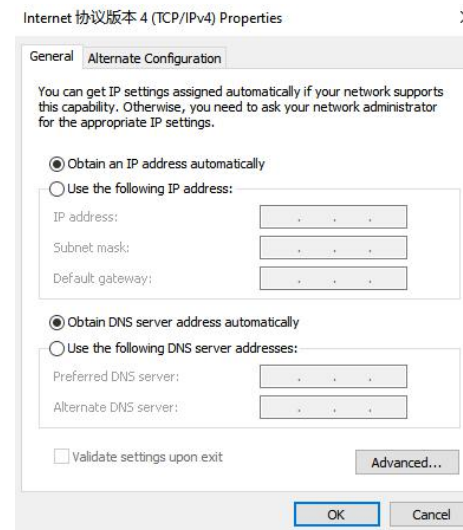


C) Choose **Internet Protocol Version 4 (TCP/IPv4)** and click **Properties**.



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D) Obtain an **IP address automatically**:



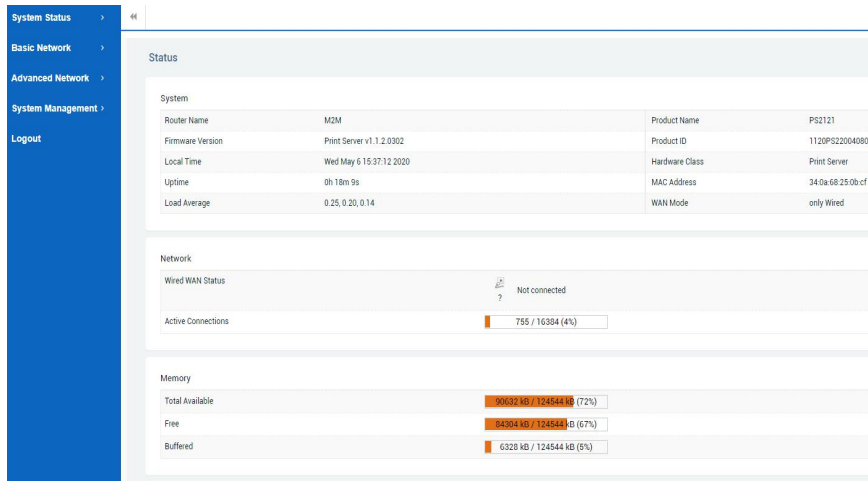
3) On your PC, open a web browser such as Internet Explorer, Google or Firefox etc. From your web browser, type the IP address of the server into the address bar and press enter. The default IP address of the router is **192.168.6.1**, though the actual address may vary.



4) In the login page, enter the username and password, then click **Login**. The default username and password are "admin".



5) After logging in, the home page of the PS2021 print server's web interface is displayed, for example.



2. Configure the Network Connection

There are two methods to get network connection for the Print Server. One is Wired WAN connection, another is WiFi connection.

1) Wired WAN Connection

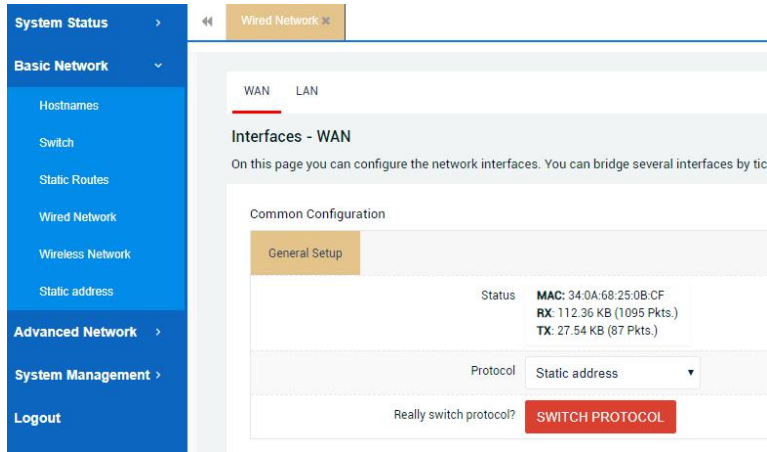
Connect an Ethernet cable to the LAN port of the office router, and connect the other end of the cable to your WAN port of the print server.

After wired connect to the office router, print server will obtain an IP address automatically as xxx.xxx.xx.248, you can check it in the **website > System Status > Over View > Network > Wired WAN Status**.

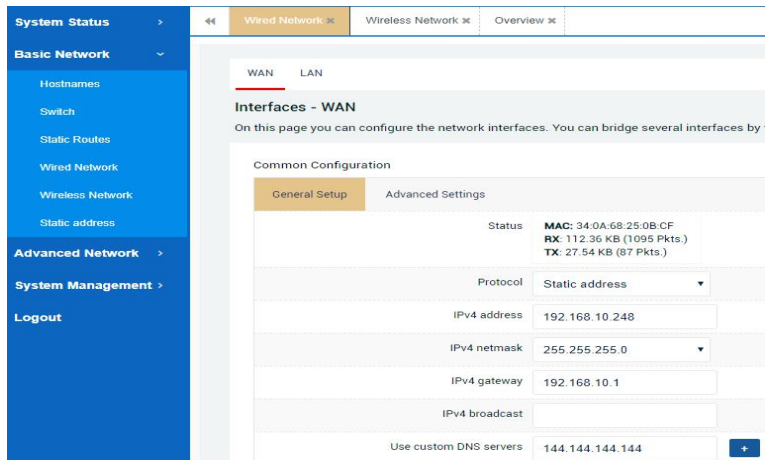


If the IP address is not as of xxx.xxx.xx.248, you have to manually set static IP address for Service WAN port as following:

A) Click **Basic Network > Wired Network > WAN > General Setup > Protocol** select “Static address”, click **SWITCH PROTOCOL** button.



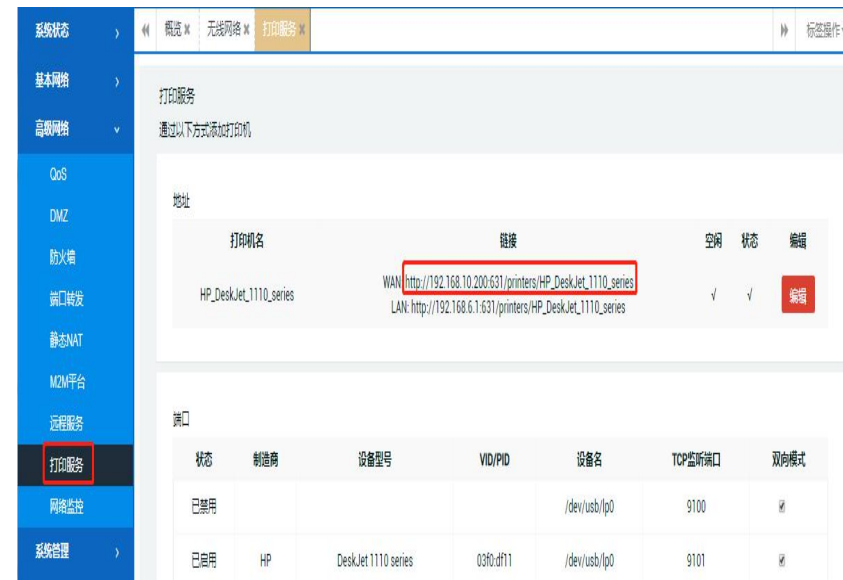
B) Set the IP address with the same network segment with office router and the last IP number is 248, and set a subnet, gateway, DNS address, click **SAVE & APPLY** button.



C) Now you can double check it in the **website > System Status > Overview > Network > Wired WAN Status**.



D) Record the Printer link of **Advanced Network > Print Service > Link**



2) WiFi Connection

A) Login the **website > Basic Network > Wireless Network**, click **SCAN** button.

The screenshot shows the 'Wireless Overview' section. It lists two wireless controllers:

- Generic 802.11bg Wireless Controller**: Channel 6 (2.437 GHz) | Bitrate: 127.5 Mb/s. Buttons: RESTART, SCAN.
- SSID: TP-LINK_D972 | Mode: Client**: BSSID: 34:0A:68:25:0B:01 | Encryption: WPA2_PSK (CCMP). Buttons: DISABLE, EDIT.

Below this is the 'Associated Stations' table:

Network	MAC Address	Host	Signal / Noise	RX Rate / TX Rate

B) Select your office WiFi network, click **JOIN NETWORK** button.

The screenshot shows the 'Join Network: Wireless Scan' page with a table of detected networks:

Signal	SSID	Channel	Mode	BSSID	Encryption	JOIN NETWORK
82%	TP-LINK_D972	6	Master	54:A7:03:0B:D9:72	mixed WPA/WPA2_PSK	JOIN NETWORK
81%	JHL8888	11	Master	02:0A:EB:9F:8D:60	WPA2_PSK	JOIN NETWORK
77%	LEFENC_A709	2	Master	0C:31:C3:0E:A7:0A	mixed WPA/WPA2_PSK	JOIN NETWORK
71%	chufo_24G	7	Master	48:0E:02:11:20:35	mixed WPA/WPA2_PSK	JOIN NETWORK

C) Fill in password in **WPA passphrase**, click **SUBMIT**

The screenshot shows the 'Joining Network: "TP-LINK_D972"' configuration page. It includes the following fields and options:

- Replace wireless configuration**: . Check this option to delete the existing networks from this radio.
- WPA passphrase**: [.....]. Specify the secret encryption key here.
- Name of the new network**: wwan. The allowed characters are: A-Z, a-z, 0-9 and _.
- Create / Assign firewall-zone**: wan, wwan. Choose the firewall zone you want to assign to this interface. Select a

Buttons: BACK TO SCAN RESULTS

D) Click **SAVE & APPLY** button.

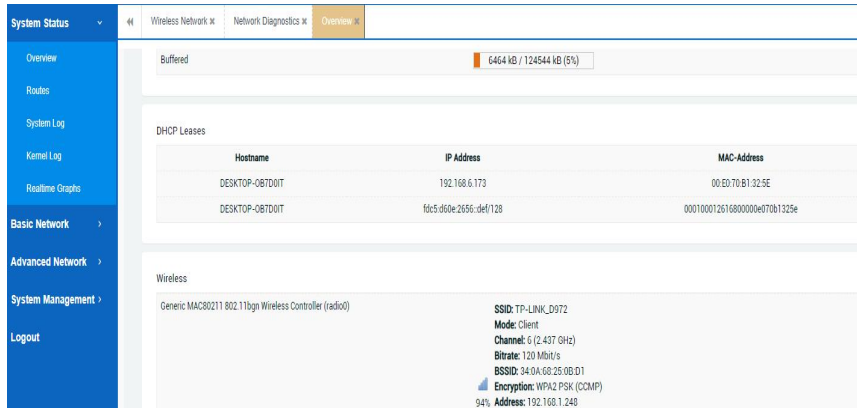
The screenshot shows the wireless network configuration page after joining. It displays the following information:

- Status**: Mode: Client | BSSID: TP-LINK_D972 | SSID: TP-LINK_D972 | Encryption: WPA2_PSK (CCMP) | Channel: 6 (2.437 GHz) | Tx Power: 20 dBm | Signal: -42 dBm | Noise: -95 dBm | Bitrate: 135.0 Mb/s | Country: US.
- Wireless network is enabled**: [DISABLE]
- Wireless Network Settings**:
 - Mode: Client
 - Channel: 6 (2.437 MHz) | Width: 20 MHz
 - Operating Frequency: N
 - Transmit Power: auto
- Interface Configuration**:
 - General Setup: Mode: Client
 - Wireless Security: BSSID: TP-LINK_D972, SSID: 54:A7:03:0B:D9:72, Protocol: DHCP

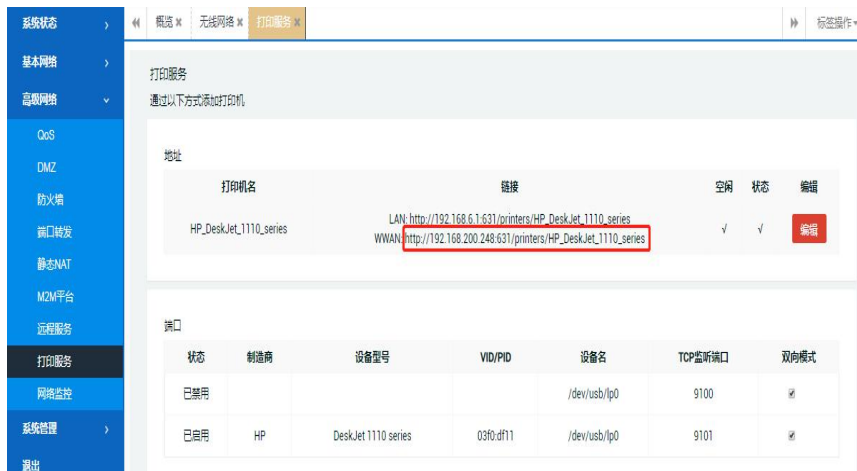
Buttons: BACK TO OVERVIEW, SAVE & APPLY

E) Now you can double check it in the **website > System Status > Overview > Network > Wireless**

System will obtain an IP address automatically as xxx.xxx.xx.248, this address need to use when add printer later

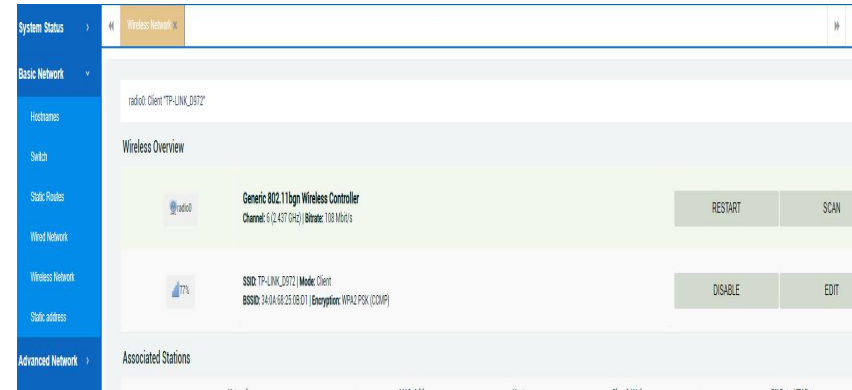


E) Record the Printer link of **Advanced Network > Print Service > Link**

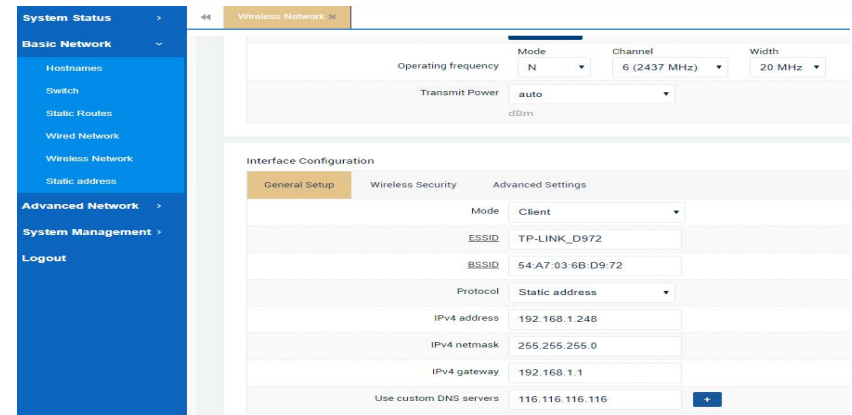


If the IP address of wireless is not as of xxx.xxx.xx.248, you have to manually set static IP address for Service WAN port as following:

A) **Basic Network > Wireless Network**, click **EDIT** button



B) **General Setup > Protocol** > Select **Static address**, Set the IP address with the same network segment with office router and the last IP number is 248, and set a subnet, gateway, DNS address, click **SAVE & APPLY** button.



Add A Printer

Before add a printer to your multiple computers, you need to make sure two things:

1. Each computer have installed the printer driver software, you can have direct connection between computer and printer to install driver software, or download driver software from website to manually install.
2. Directly connect computer with printer, to test if it can print successfully. If not, you need to re-install the driver software.

Here take Wired WAN connection and Win 10 for example, WiFi connection and Win XP, Win 7 are similar.

Connect an Ethernet cable between Router's LAN port and Server's WAN port, connect an Ethernet cable between Server's LAN port and Computer. Login to check Wired WAN address (example 192.168.10.248), Printer's HTTP Path address and Connecting USB Port (example 9101):

1. System Status > Over View > Network > Wired WAN Status

The screenshot shows the 'System Status' page with the 'Network' section expanded to 'Wired WAN Status'. The 'Status' section contains the following information:

System	Router Name	Product Model
System	M2M	PS1121-R
System	Print Server v1.1.2.0904	1120PS11908060055

The 'Network' section shows:

Network	Type	Address	MAC Address	Subnet Mask	Gateway	DNS T1	Timeout	Connected
有线 WAN 状态	dhcp	192.168.10.248	34.0A.68.24.70.14	255.255.255.0	192.168.10.1	202.96.134.33	21m.49s	15h.38m.11s

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2. Advanced Network > Print Service > Link, copy the HTTP path link

The screenshot shows the 'Print Service' page with the 'Link' section. The 'Link' section contains the following information:

Printer Name	Link	Space	Status	Edit
HP_DeskJet_1110_series	WAN: http://192.168.10.248:631/printer/HP_Deskjet_1110_series LAN: http://192.168.6.1:631/printers/HP_DeskJet_1110_series	√	√	编辑

The 'Ports' section contains the following information:

Status	Manufacturer	Device Model	VID/PID	Device Name	TCP Listening Port	Double Mode
已禁用				/dev/usb/lp0	9100	✖
已启用	HP	DeskJet 1110 series	03f0.dff1	/dev/usb/lp0	9101	✖

There are two ways to add the printer for each network computer:

1. Use HTTP path to add printer

1) Click computer **Start** > Search **Control Panel** > **Hardware and Sound** > **Devices and Prints** > **Advanced printer setup** > Click **"The printer I want isn't listed"** > Select a **shared printer by name**, paste HTTP path, click **NEXT**

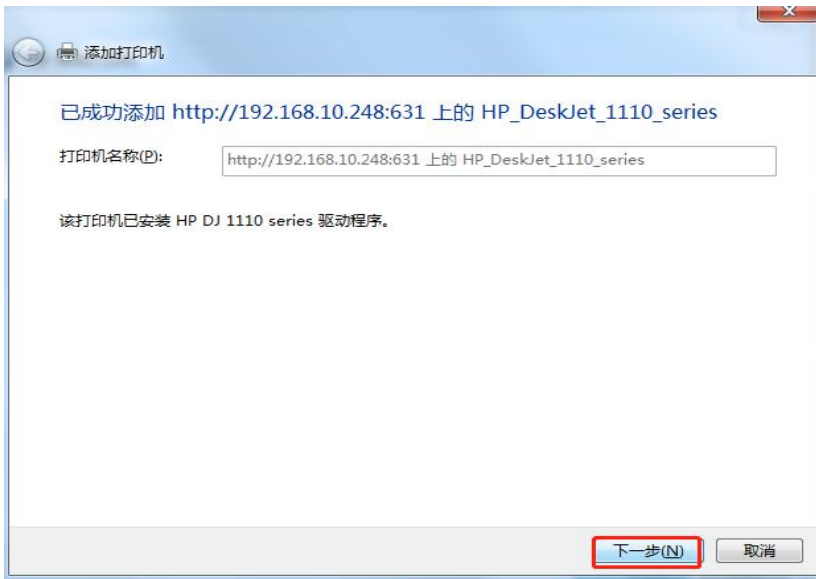
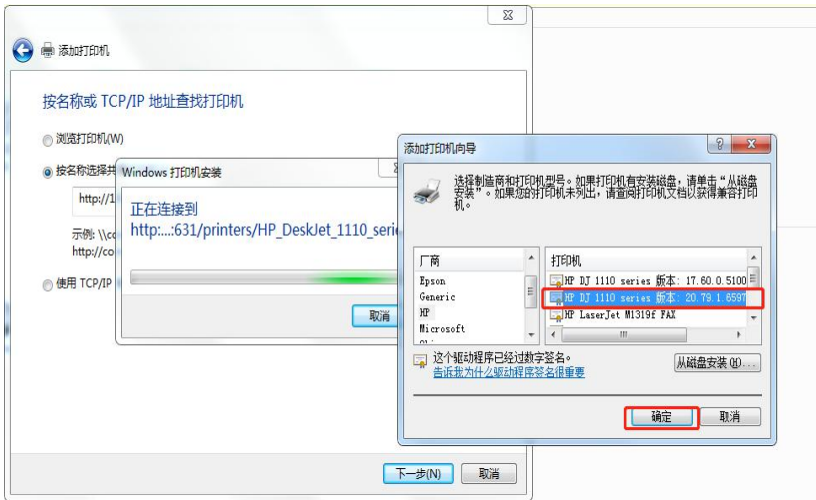
The screenshot shows the 'Find a printer by other options' dialog box. The 'Select a shared printer by name' option is selected. The text box contains the following text:

http://192.168.10.248:631/printer/HP_Deskjet_1110_series

The 'Next' button is highlighted in blue.

Website: www.keennew.com
Email: sales@keennew.com
Whatsapp: +86 13249165907

2) Select your printer model, click OK, you can see add printer successfully.



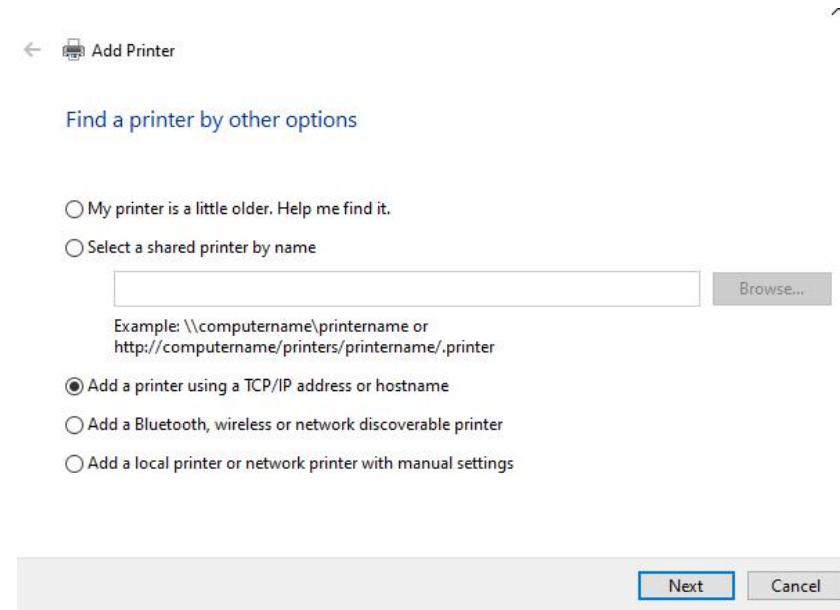
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3) Set the network printer as default printer and then test printing.

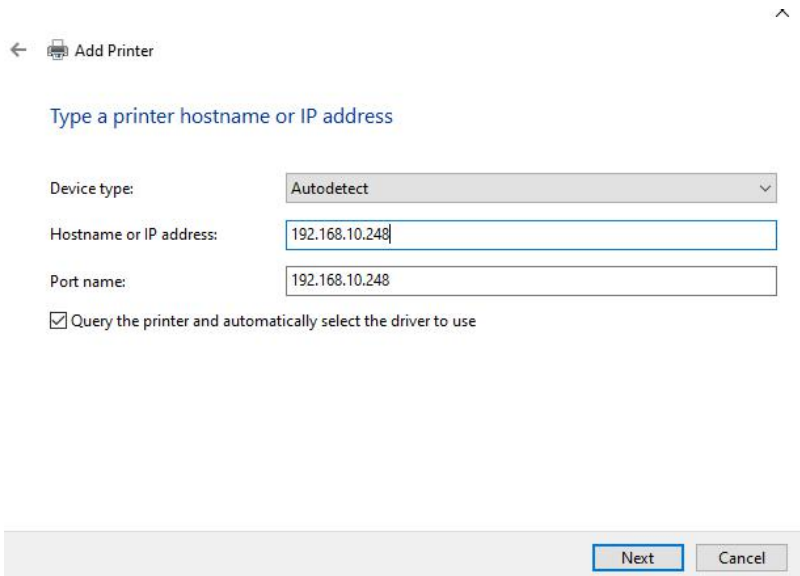
2. Use IP address + USB Port to add printer

1) Click computer **Start > Search Control Panel > Hardware and Sound > Devices and Prints > Advanced printer setup > Click "The printer i want isn't listed" > Select Add a printer using a TCP/IP address or hostname, click NEXT**

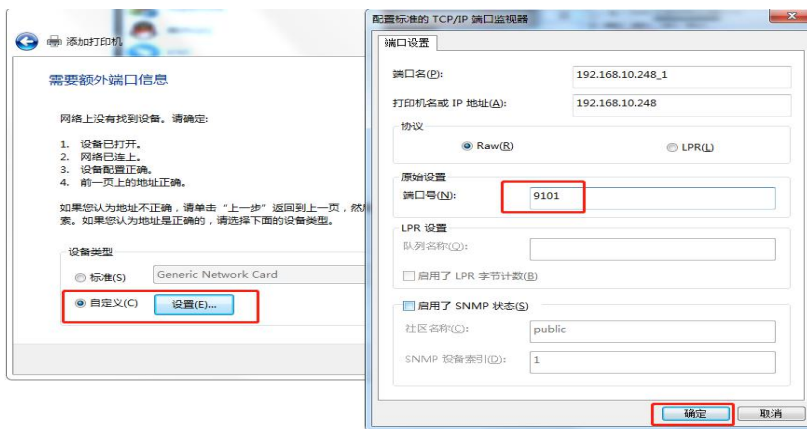


2) Fill in IP address of your print server

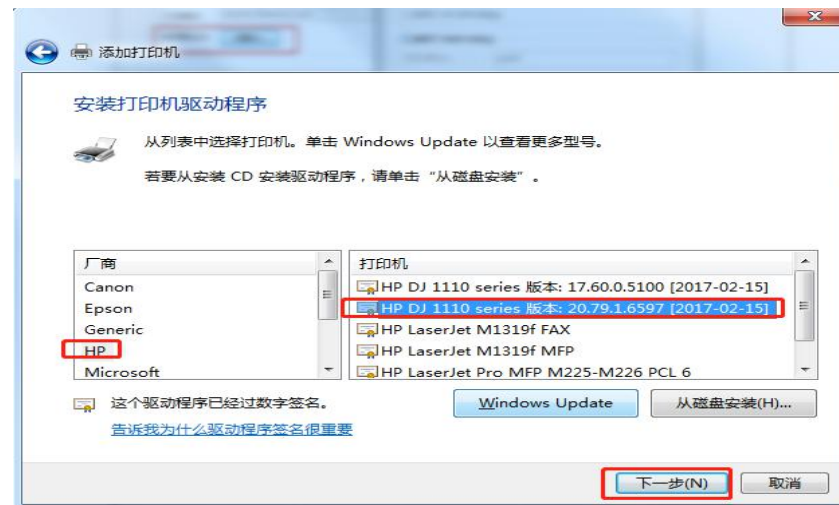
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Email: sales@keennew.com
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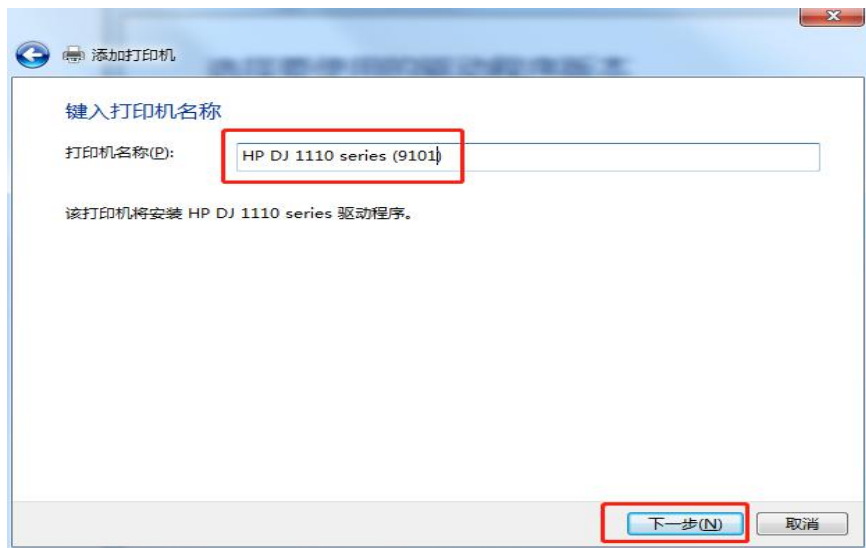


3) Select **Custom**, Port fill with 9101 or 9100 (it depend on which Print Server USB port is connecting with Printer now)

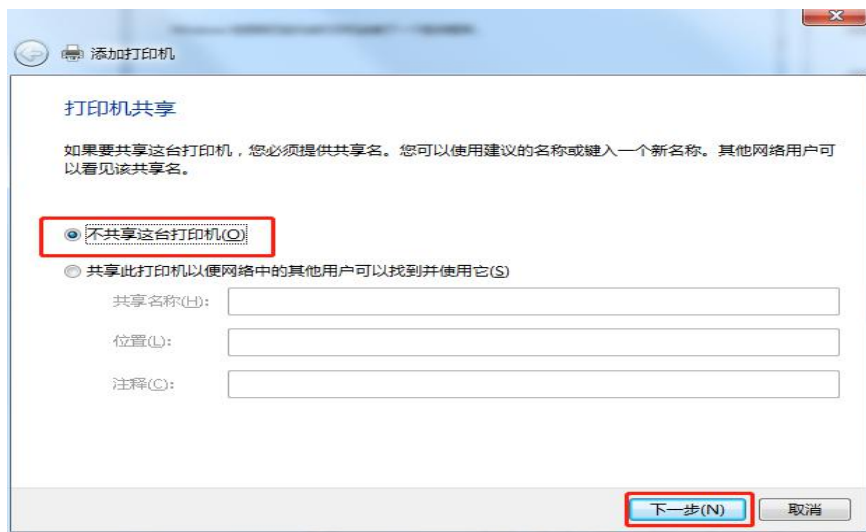


4) Select your printer model, click **Next**, you can see add printer successfully





Select not to share this printer



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5) Set the network printer as default printer and then test printing.

For any question, please contact us:

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GuangZhou QiXiang Technology Co.,Ltd is a professional provider of machine-to-machine (M2M) and Internet of Things (IoT) connectivity products and services. Qi Xiang has been focusing on providing Industrial Cellular Router, Cellular Serial Modem, Network Print Server, Serial Device Server (DTU), Android Industrial Motherboard, Embedded Router Board, M2M Cloud Platform, etc.

With the powerful R&D team, efficient manufacturing plant, professional engineer and QA function, our rugged products offer mobile, high speed, reliable, flexible, 24*7 hours connectivity for multiple fields such as Oil Field, Smart Grid, Smart City, Transportation, Industry Automation, Telco Infrastructure, Retail, Video Surveillance, etc. Our products had been passed strict quality control according to CCC, CE, ISO 9001 regulations and implemented in many well-known companies such as China Mobile, China Telecom, China Unicom, KingLong Bus, UnionPay, Hive Box, etc.

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