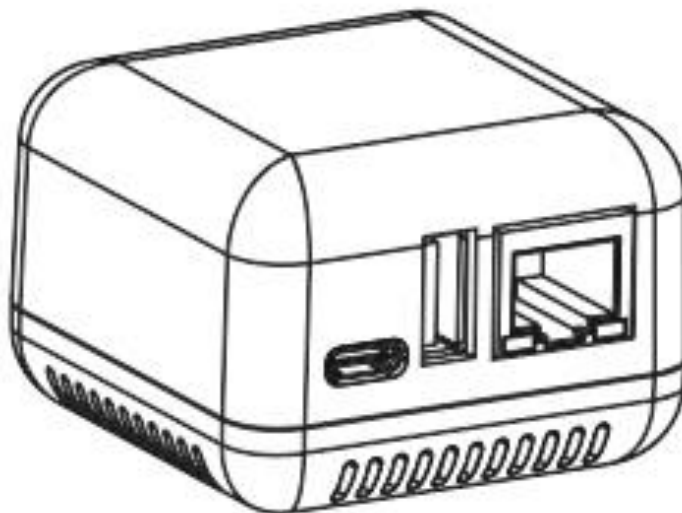


Network Print Server

User Manual

(2021-03 Version)



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1 Summary

1.1 Product Main Features

Standard 100M network interface

Small Size: 53x53x40mm

Default Configuration: RJ-45 LAN Port, WiFi/Bluetooth version is available

Communication Method: USB 2.0 interface.

Support Multi-users sharing one printer of a wireless network simultaneously.



Simple and compact design, low power, small footprint, easy to carry.

Can print directly from operating the mobile phone (work with PrinterShare or Printhead APP), support to print files, photos directly via APP.

1.2 Product Description

LY-MPS-N01 is a **Mini USB Print Server**, a 10/100Mbps Ethernet to USB 2.0 Network LPR Print Server, after connected to the local area network (LAN) through the RJ45 network cable, it is an independent network device in LAN, which allows multiple computers in the local area network to share a USB printer. It's replacing the computers which worked as the print server with the high cost, spacy-occupying, high energy consuming, not easy to manage later disadvantages. Allowing users to use mobile phones, tablets, computers or other devices to print files.

1.3 Product Series

Loyalty-Secu Network print servers with 3 versions for option:

Model	Communication Method	Remarks
LY-MPS-N01	Ethernet	RJ45 LAN Port
LY-MPS-BN01	Ethernet &Bluetooth4.0	Support Android/IOS (BLE) RJ45 LAN Port+ Bluetooth
LY-MPS-WN01	Ethernet &WiFi	RJ45 LAN Port+ WiFi

2 Technical Specifications

2.1 Technical Parameters

Product Parameters	
CPU	ARM9
RAM	64MB DDR2

FLASH	128MB NANDFLASH
USB Printer Interface	USB2.0 HOST
USB Configuration Port	USB2.0 DEVICE
Network Port	10/100M
Bluetooth Interface	Classic Bluetooth +BLE (Bluetooth 4.0) optional
WiFi Interface	802.11BGN optional
Power Supply	DC 5V/1A
Product Dimension	53×53×40mm
Product Weight	25g
Packing Size	13.5×13.5×5CM
Packing Weight	160g
Operating Environment	Temperature -10°C~50°C Humidity 20%~85%
Storage Environment	Temperature -10°C~50°C Humidity 20%~85%

3 Interfaces Instruction

Interfaces Instruction

Mini USB 2.0 Print Server



- ① USB Power Port
- ② USB Port for Printer
- ③ RJ45 Interface
- ④ Cooling Hole




4 Network Configuration Instruction

4.1 Configuration Tool Preparation

Please download the configuration tool from Loyalty-Secu official website:
<https://www.loyalty-secutech.com/download> or contact our customer service to obtain the configuration tool of the print server.

4.2 Configuration Tool File Description

The compression file package will be shown as below after decompression:

Name	Type	Compressed size	Password ...
 config	Configuration settings	1 KB	No
 language_main	Configuration settings	1 KB	No
 Print Server Config Tool	Application	3,932 KB	No

Double-click [**Print Server Config Tool.exe**] to configure the parameters, it's no need any software installation process, the interface will be as **Image 1** shows:

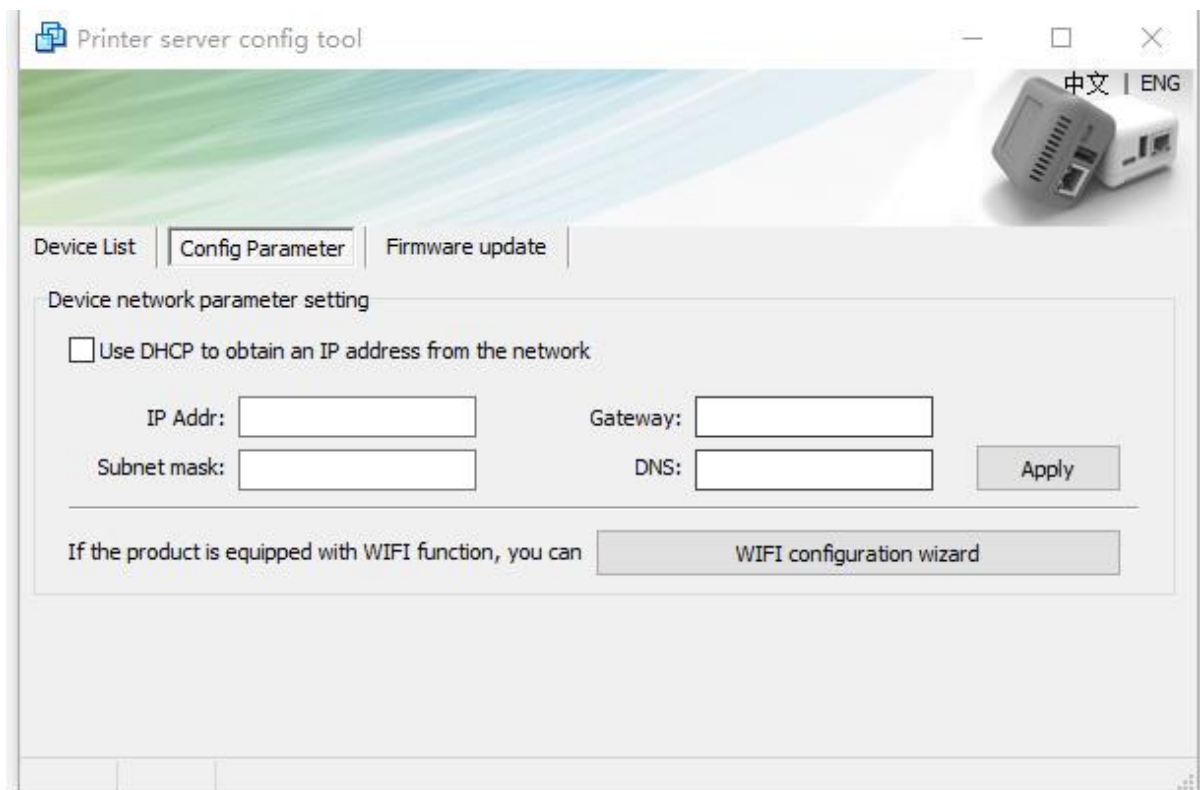


Image 1

4.3 Preparation Before Using

- A. A computer with WINDOWS operating system
- B. A USB cable with TYPE C interface (Included in the packing box)
- C. Print Server Config Tool (WINDOWS version)

Connect the print server to the computer via the USB cable, as the **Image 2** shows:

Parameter Configuration

Connect the print server to computer via USB Cable

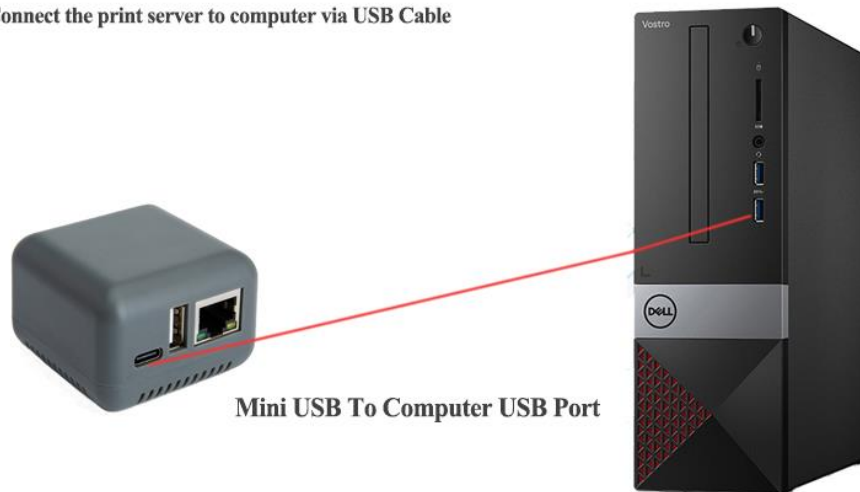


Image 2

After connected to the computer, the print server will automatically power on and start. The entire startup process takes about 20 seconds, then the print server config tool will display USB sign in the lower left corner, indicating that the config tool has been identified the print server as **Image 3** shows:

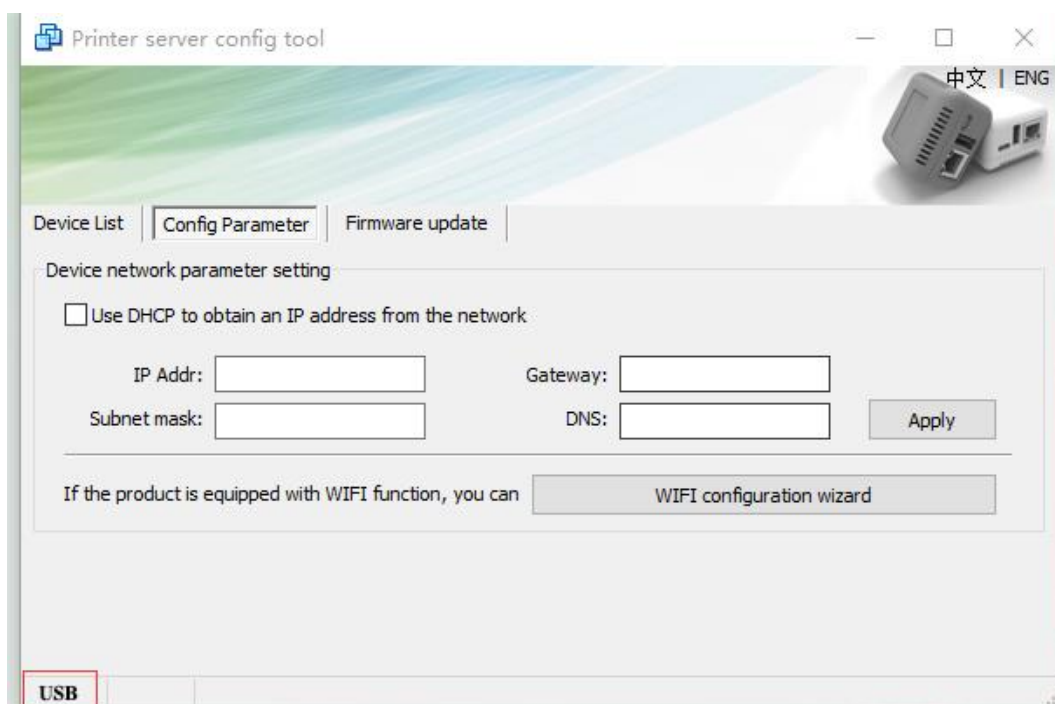


Image 3

After configuring the corresponding parameters, remove the USB cable between the print server and the computer. Starts the connection between several devices as **Image 4** shows:

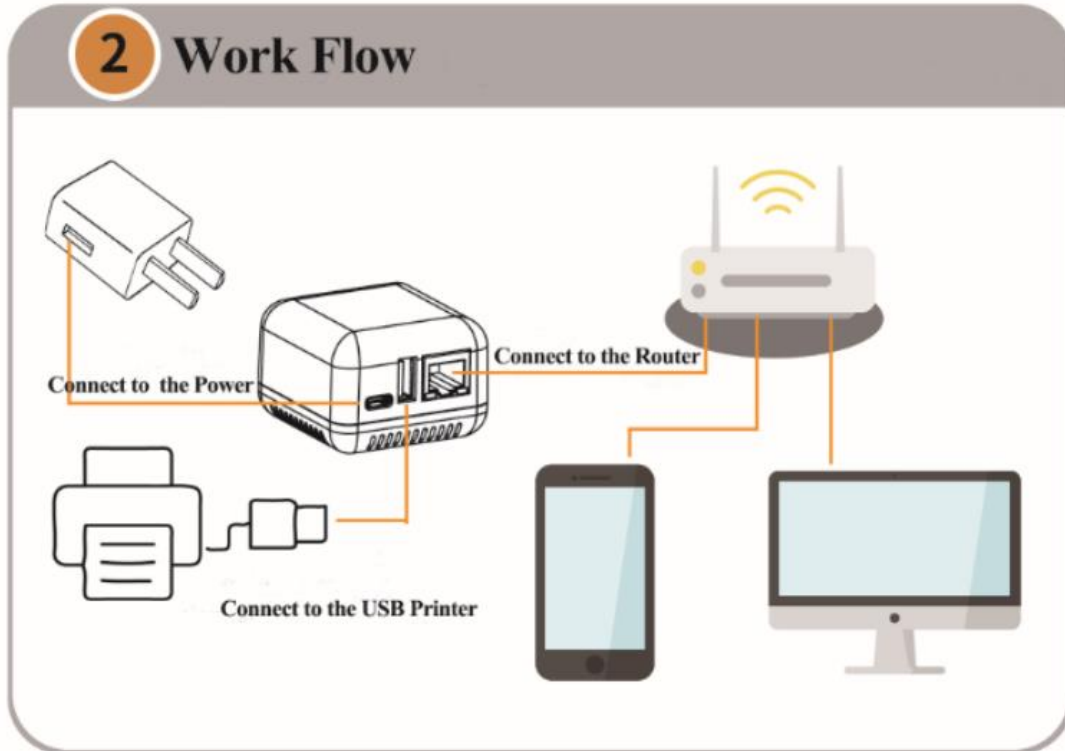


Image 4

4.4 Set the Ethernet IP Address of the Print Server

Two ways for the print server to obtain the IP Address:

Method 1: Use DHCP to obtain an IP address from the network

Method 2: Obtain an fixed IP Address

The advantage of the method 1 is very simple and time saving, however, the disadvantage is that it is easy to forget the IP address and may assign a different IP address for the print server, brings the IP Address conflict problem.

For method 2, can assign a fixed IP address to the print server according to the current network environment, this method is more reliable and stable((highly recommended)), the users need to know their own network attributes.

※**Tips for how to get an fixed IP Address**※

Click "**Start Menu---Run**",or use the **WIN+R key combination** to call the run window, enter "**cmd**" in the run window, click OK (As **Image 5** Shows).

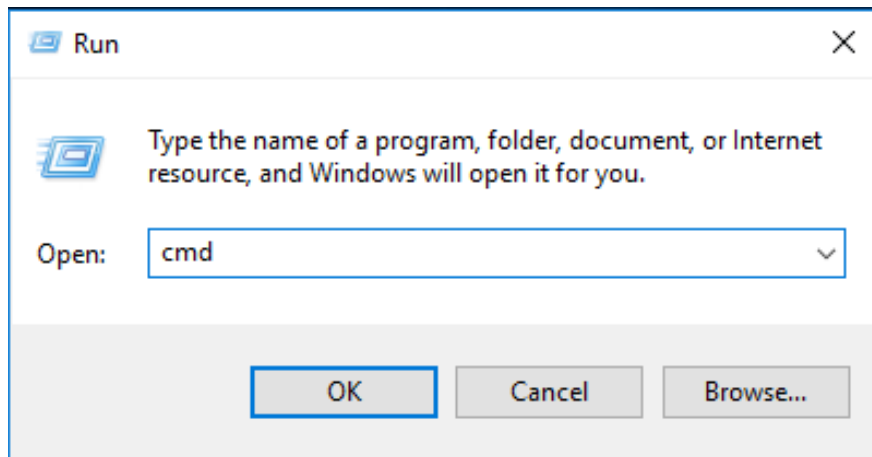


Image 5

After inputting “**ipconfig**”,click “**Enter**” button, then the IP Address, Subnet Mask, Gateway information will be displayed as **Image 6** shows:

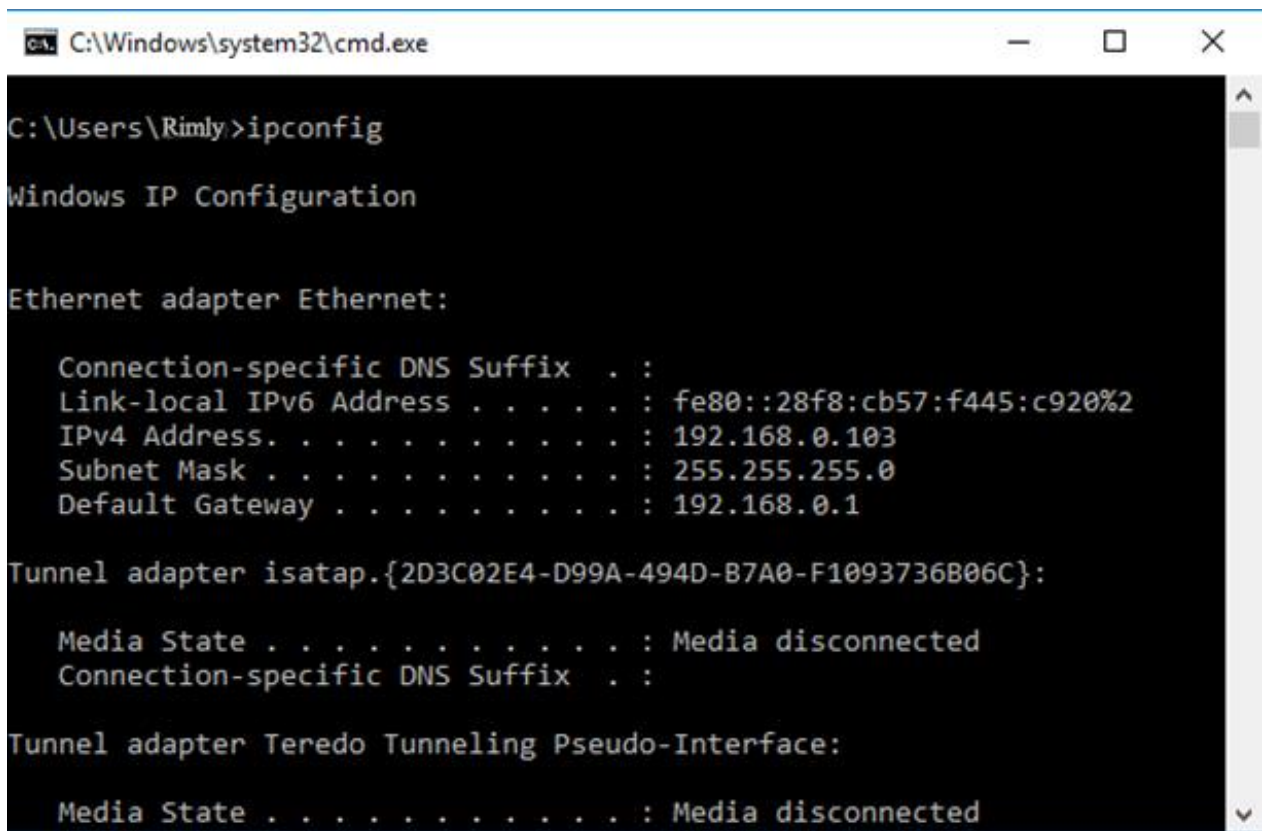


Image 6

Network Segment: 192.168.0.xxx
Subnet Mask :255.255.255.0
Default Gateway: 192.168.0.1

Open the config tool and select the "**Config Parameter**" tab

A: If you use DHCP to obtain an IP address

Please check "**Use DHCP to obtain an IP address from the network**" as shown in the **Image 7**:

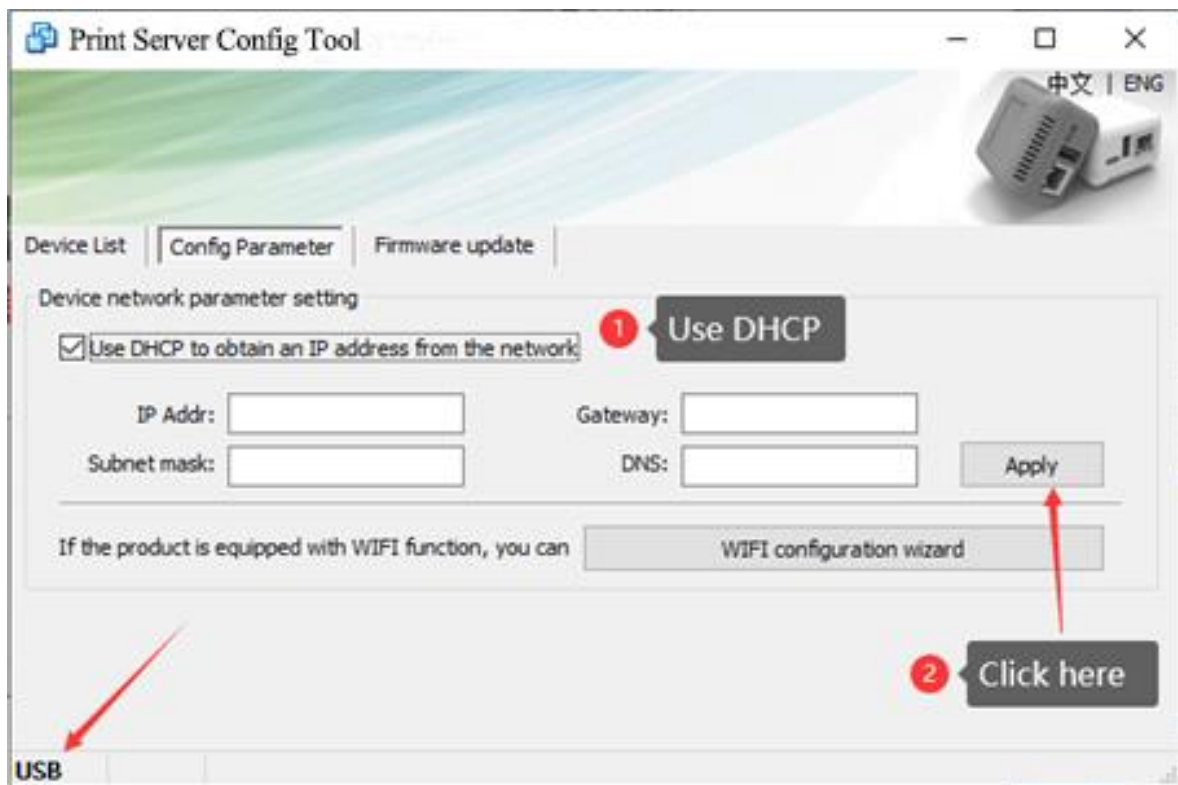


Image 7

Click the "**Apply**" button, restart the print server, the print server will work successfully.

B: Assign a fixed address

Uncheck "**Use DHCP to obtain an IP address from the network**" and enter fixed network parameters in the config menu. Different network environments will have different parameters. Please obtain the corresponding information based on the actual internet situation, as **Image 8** shows:

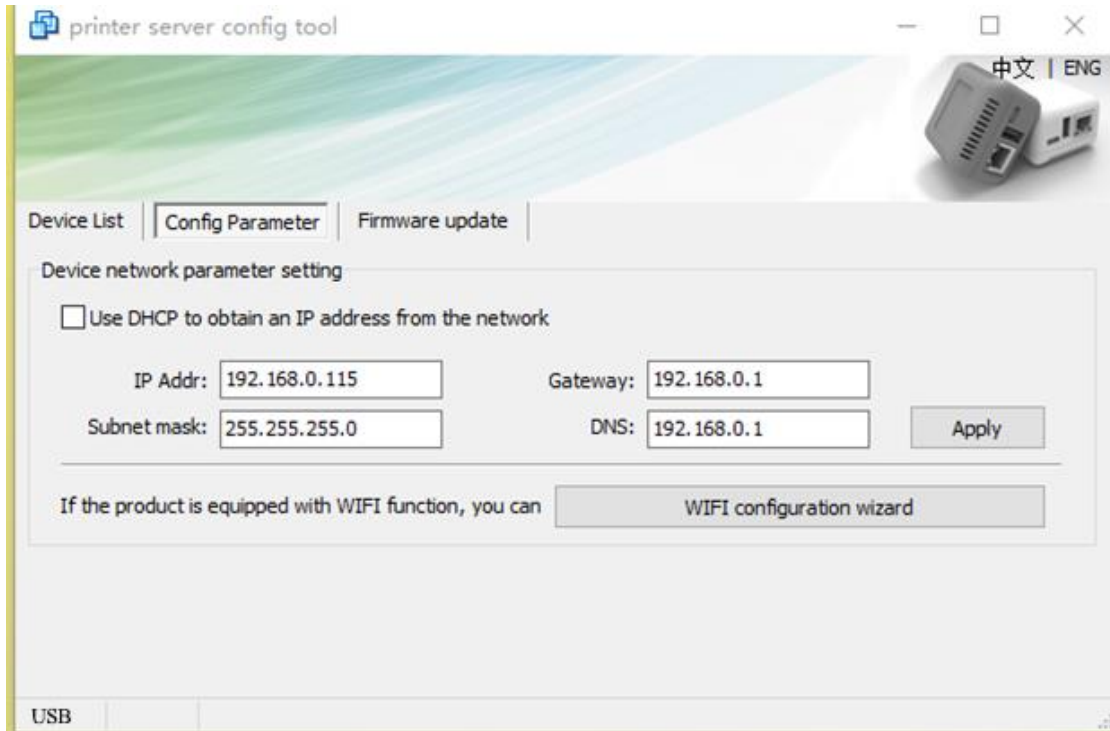


Image 8

4.5 Query Current Status

On the "Device List" page, all the print servers will be listed in the current network, as the **Image 9** shows:

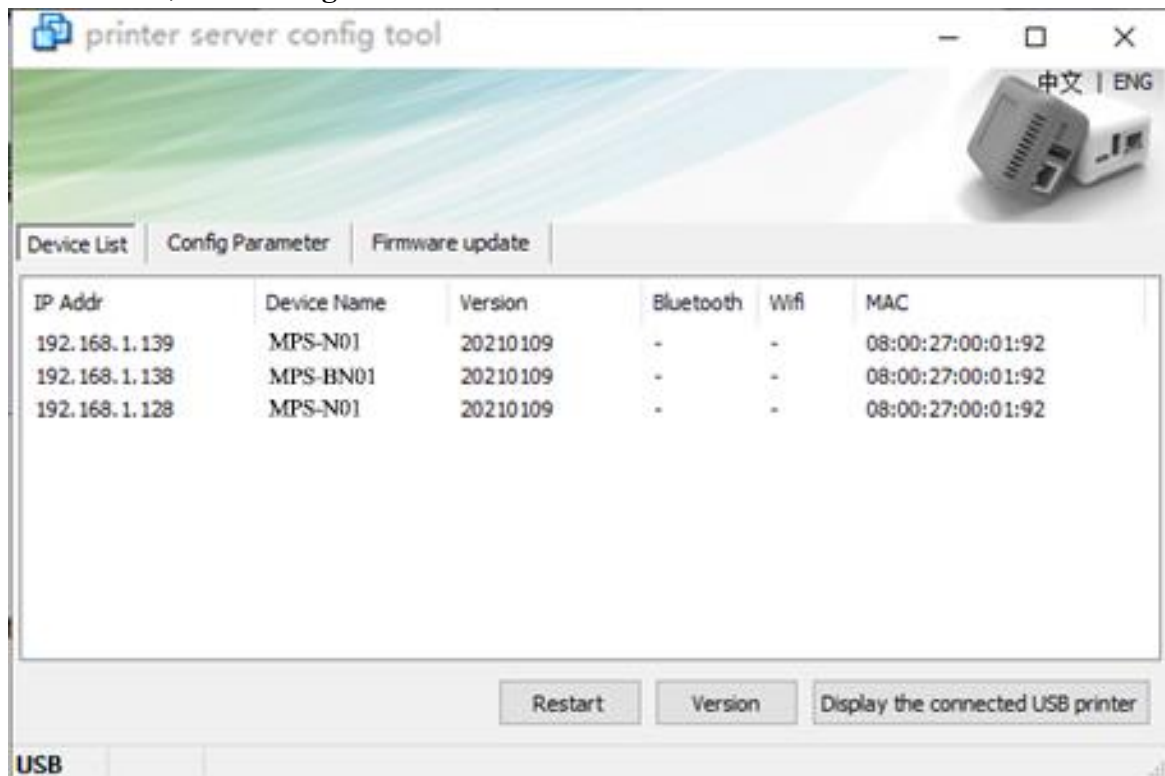


Image 9

4.6 WiFi Parameter Configuration

Note: Only the print server with WiFi function, can proceed on the WiFi Wizard process.

In the "Config Parameter" page, click "WIFI configuration wizard" to continue the WiFi setting as **Image 10** shows:

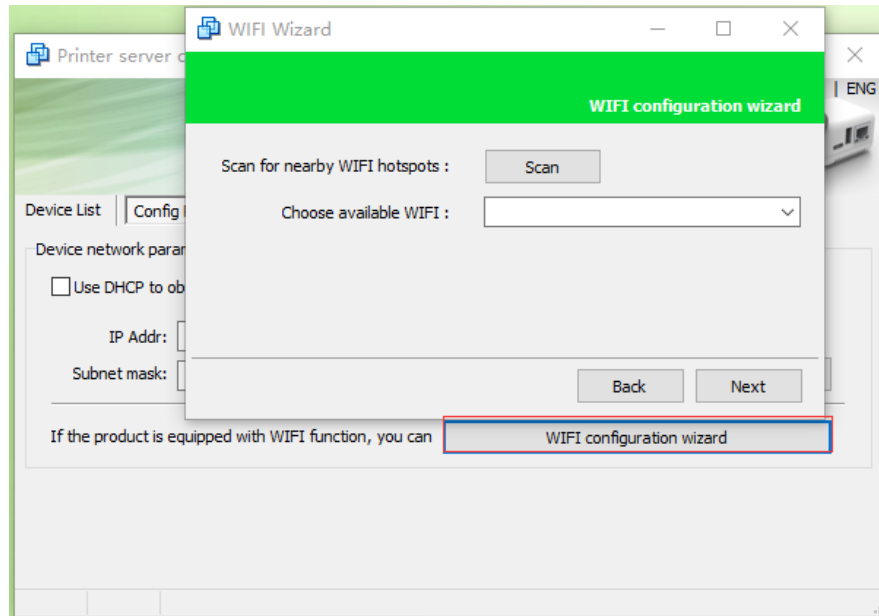


Image 10

Click "Scan" to scan for nearby WiFi hotspots, the result will be displayed in the drop-down list within 5 seconds, select the right WiFi hotspot you need to connect to, then click "Next", as **Image 11** shows

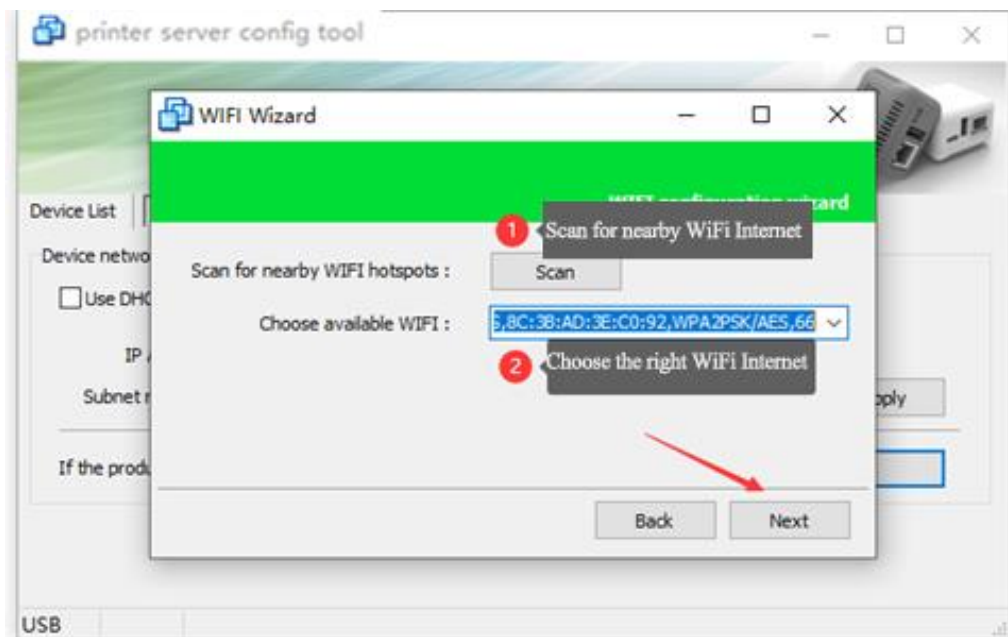


Image 11

Enter to the WiFi Password Setting Menu, input the WiFi password and click “Next”, as **Image 12** shows:

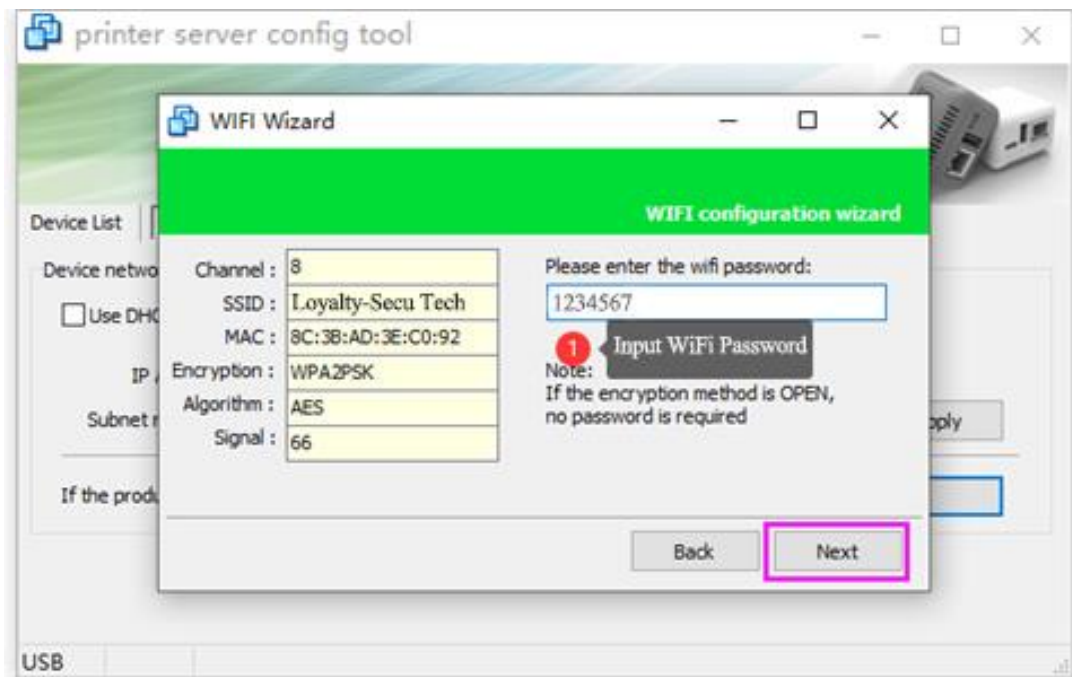


Image 12

After connected to the WiFi internet, need to configure the WiFi Parameter to obtain an IP address for the WiFi print server.

There also have two methods for getting an IP address for the print server:

Method 1: Use DHCP to obtain an IP address

Method 2: Obtain an fixed IP Address (the procedure is same as 4.4 above)

After confirming the parameter, please click “**Modify network parameters**” write the parameter in to the WiFi module as **Image 13** shows:

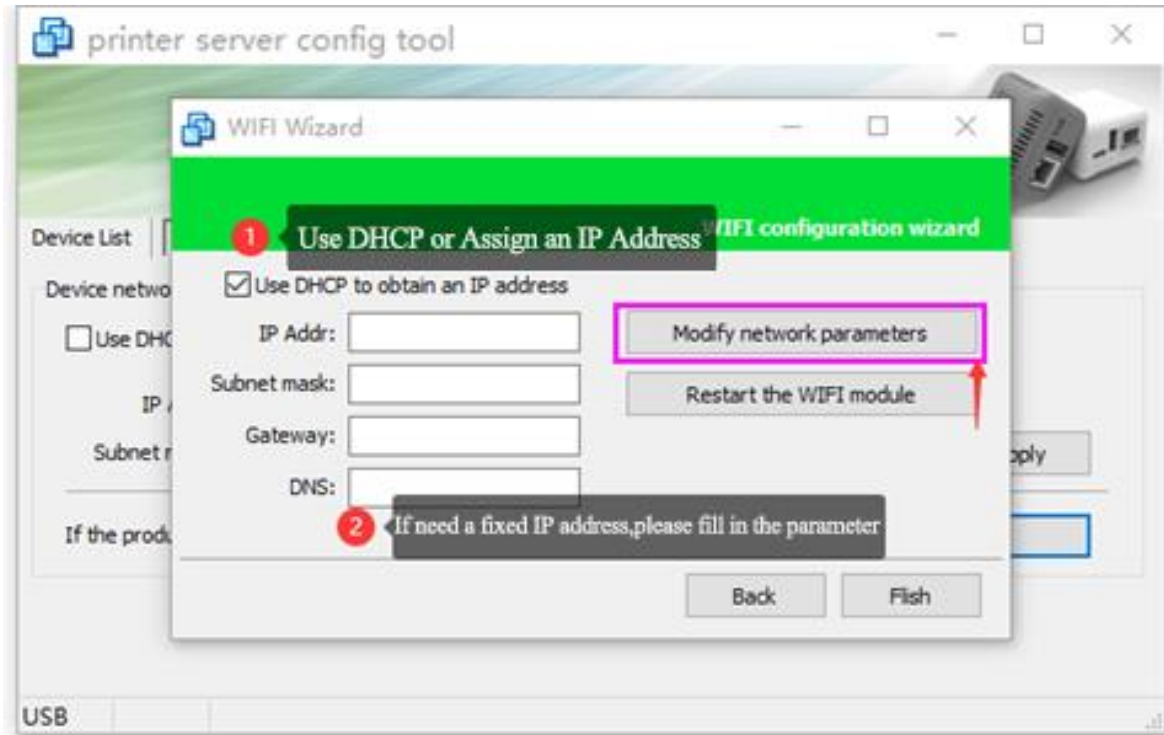


Image 13

After configuring the parameters, please restart the print server.

4.7 Print Server Port

The print server uses a standard RAW interface, the port number is 9100

5 WINDOWS Printer Driver Installation Example

When the network parameter configuration of the print server is completed, please power on the print server, make sure it works under a stable condition.

5.1 Install the Printer Driver

Installing the printer driver is the same procedure as the normal USB printer driver (will not explained here)

5.2 Configure the Printer Port

After installing the printer driver, select the newly installed printer in the control panel, select the printer, and right click printer properties. As shown in the **Image 14/15/16**, different operating systems may have some differences.

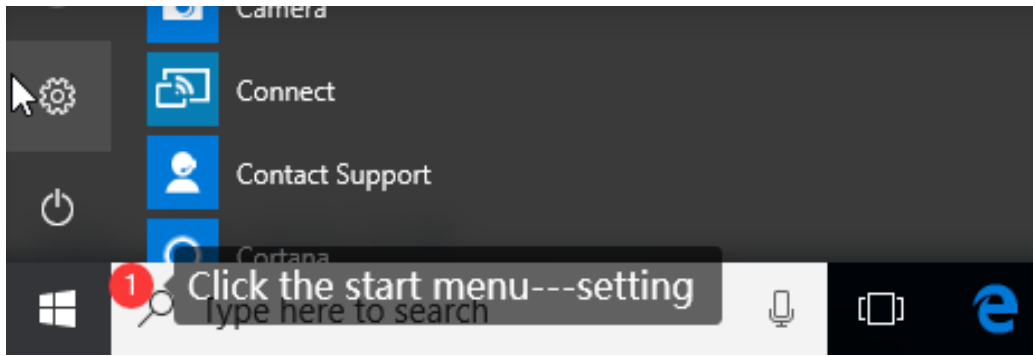


Image 14

Windows Settings

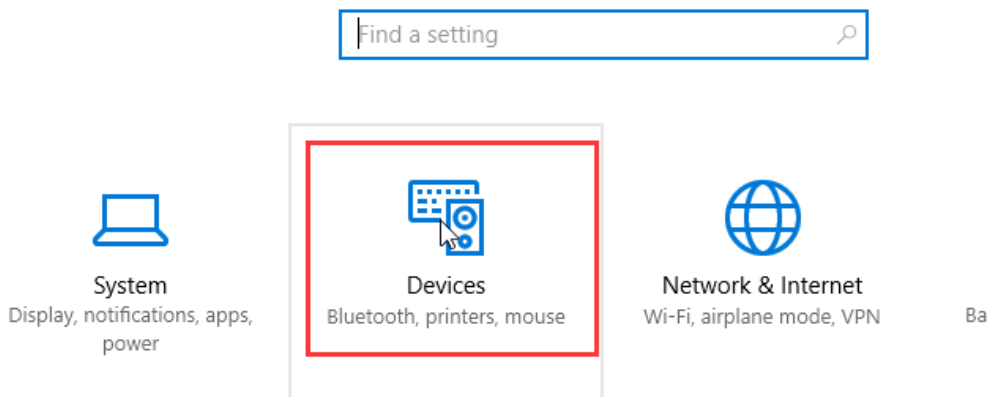


Image 15

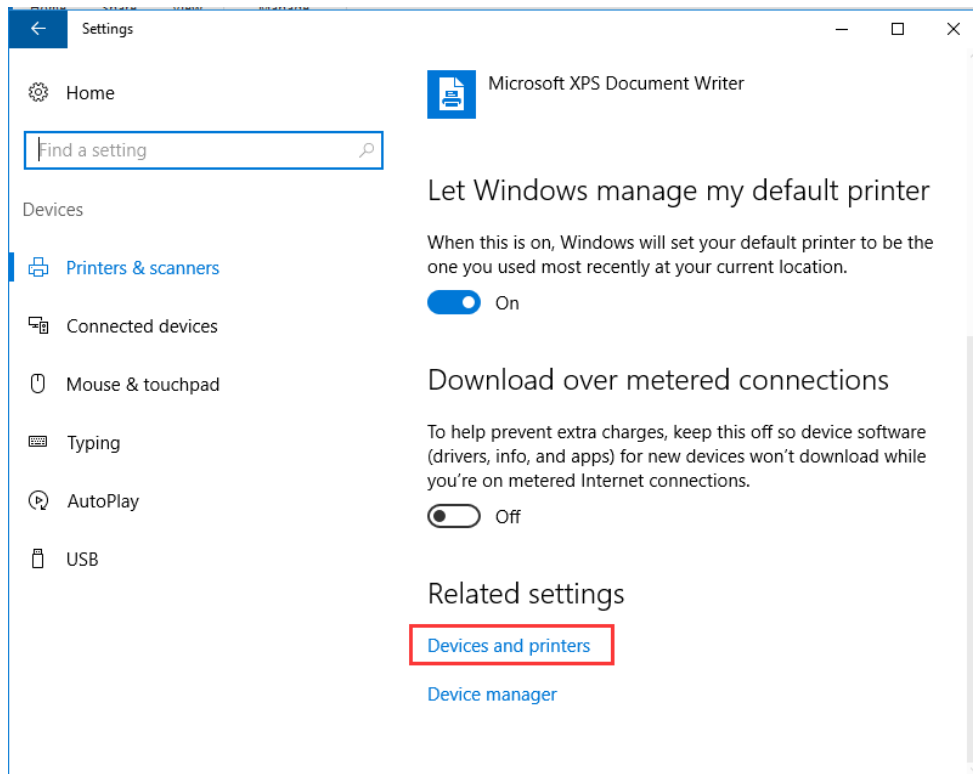


Image 16

Image 17 demonstrates an example of installing the HP 1020 printer for reference:

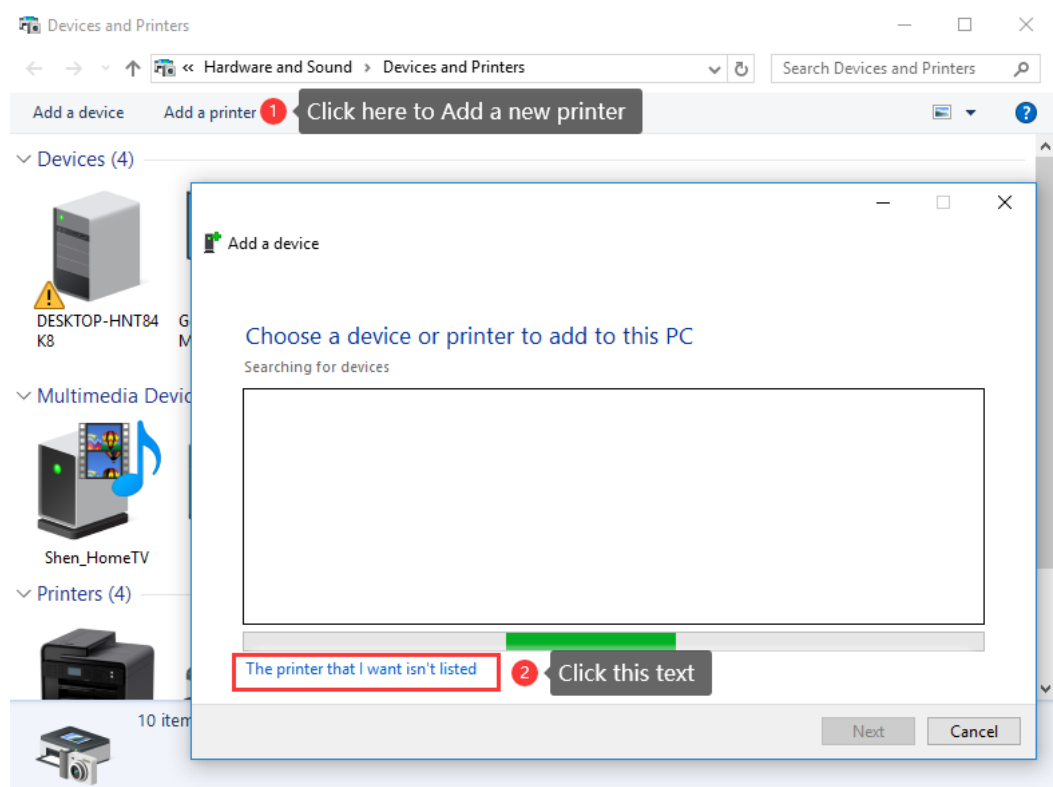


Image 17

After clicking “Add a printer”, choose and click “The Printer that I want isn’t listed” as **Image 18** shows.

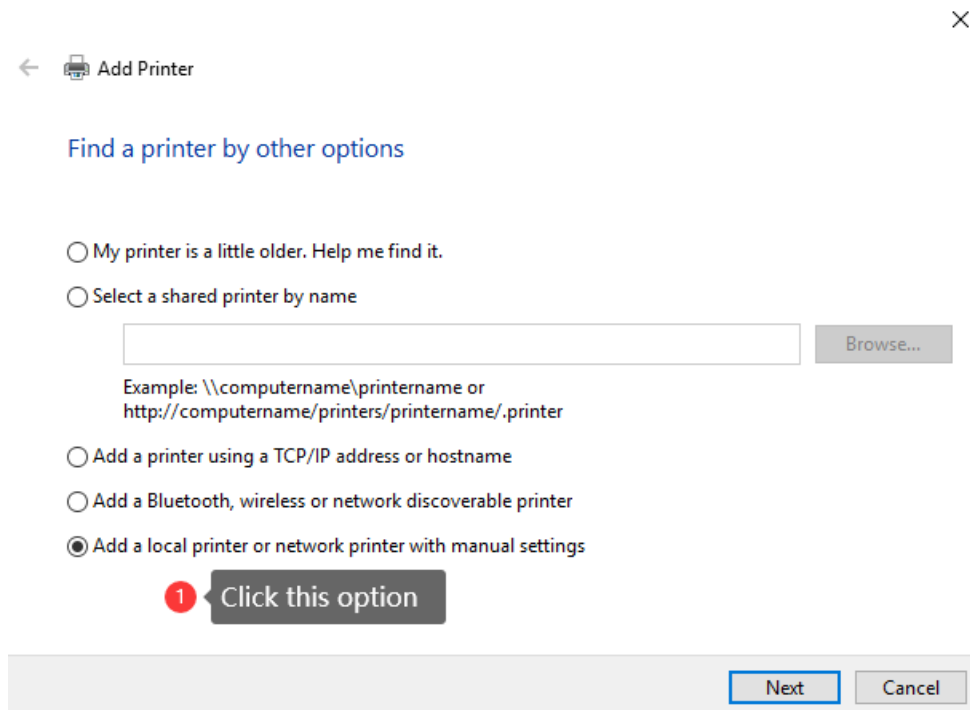
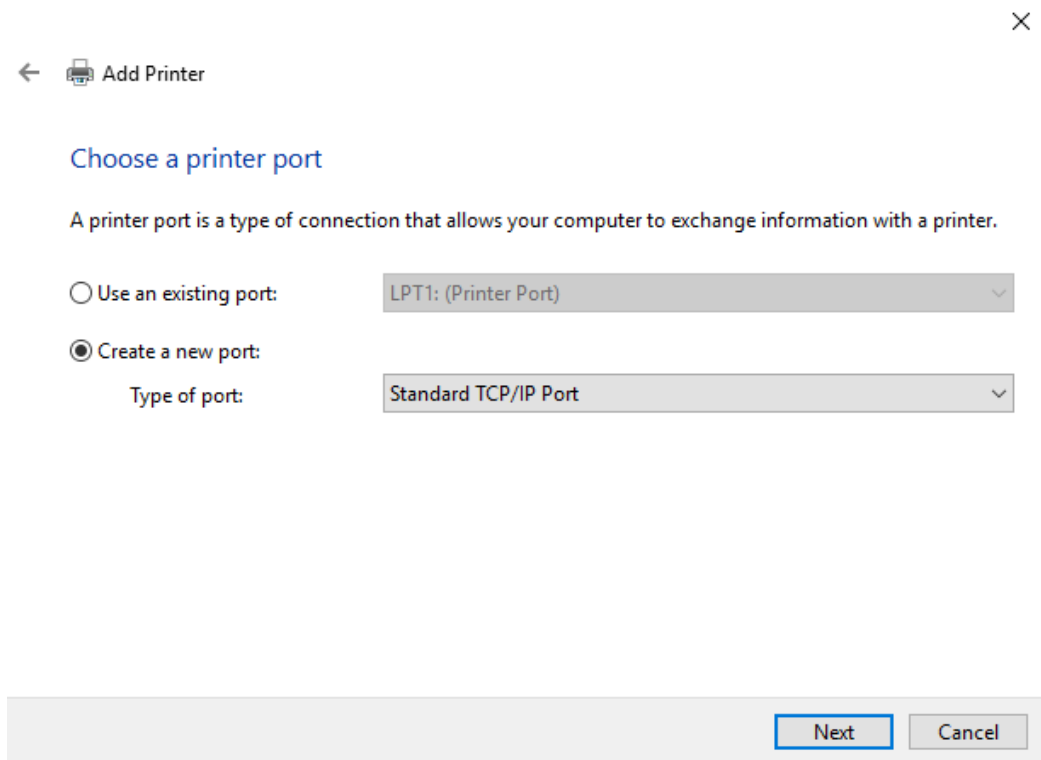


Image 18

Click the “Next” button



← Add Printer

Choose a printer port

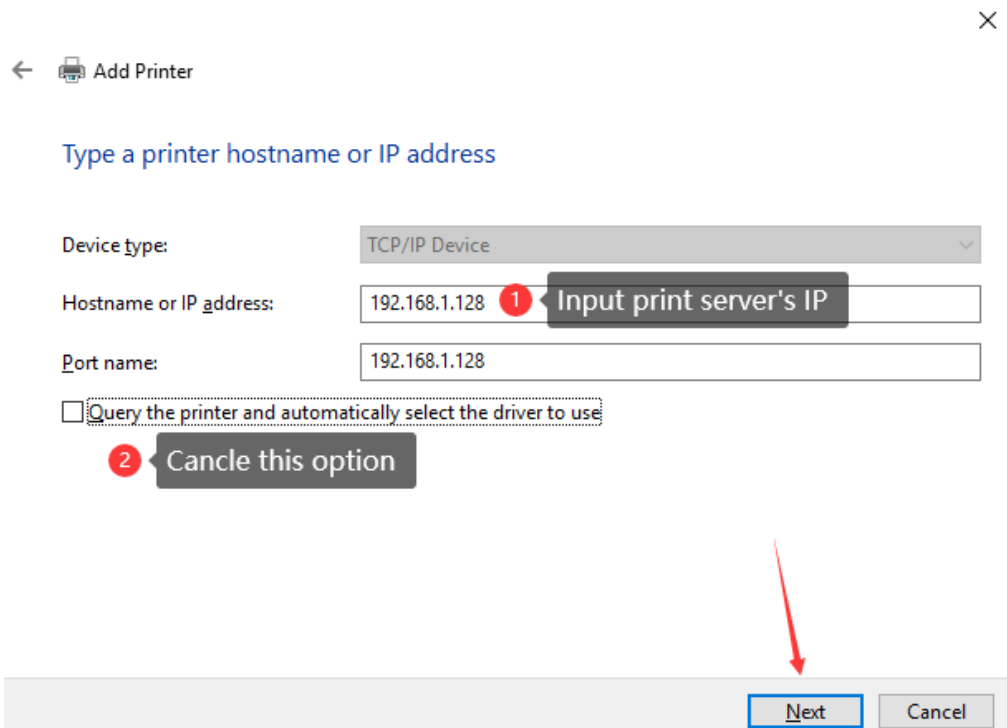
A printer port is a type of connection that allows your computer to exchange information with a printer.

Use an existing port: LPT1: (Printer Port)

Create a new port:
Type of port: Standard TCP/IP Port

Next Cancel

Create a new port, and the type of port is “Standard TCP/IP Port”, Click the “Next” button.



← Add Printer

Type a printer hostname or IP address

Device type: TCP/IP Device

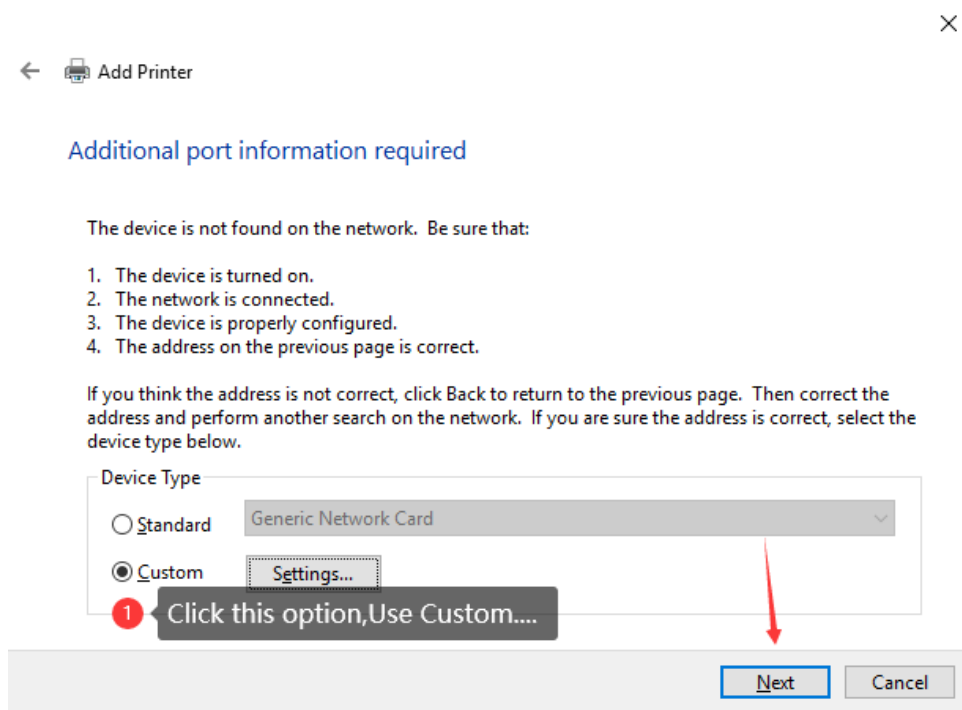
Hostname or IP address: 192.168.1.128 **1** Input print server's IP

Port name: 192.168.1.128

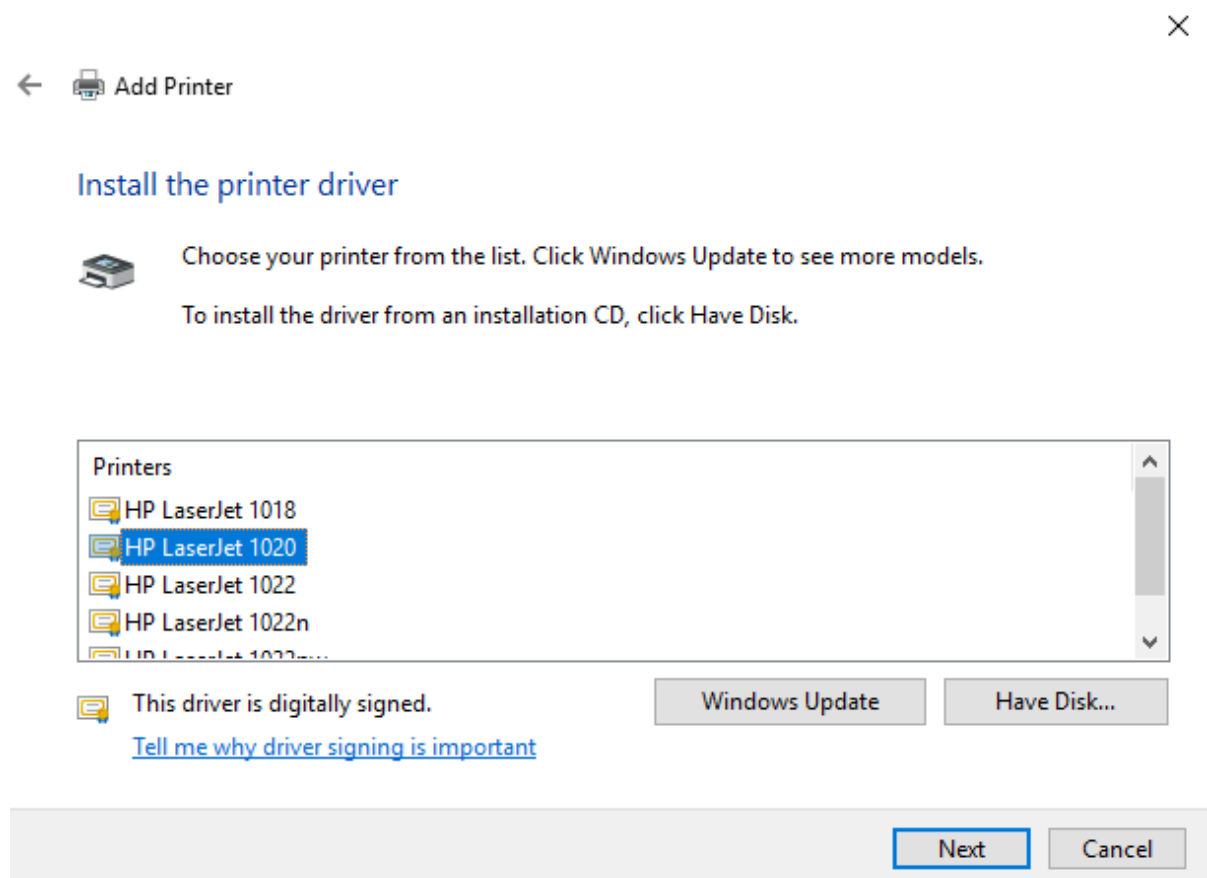
Query the printer and automatically select the driver to use
2 Cancel this option

Next Cancel

Then Click the “Next” button.



Click the “Next” button, then now start to install the printer driver



The next step is to configure the printer properties, as shown in the **Image 19**

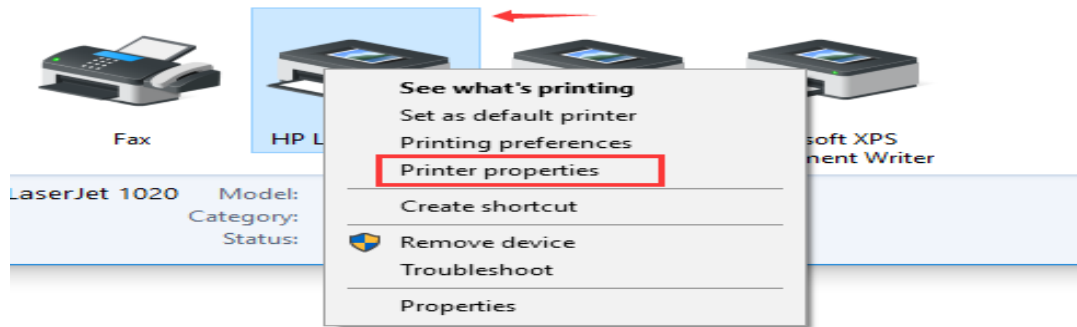
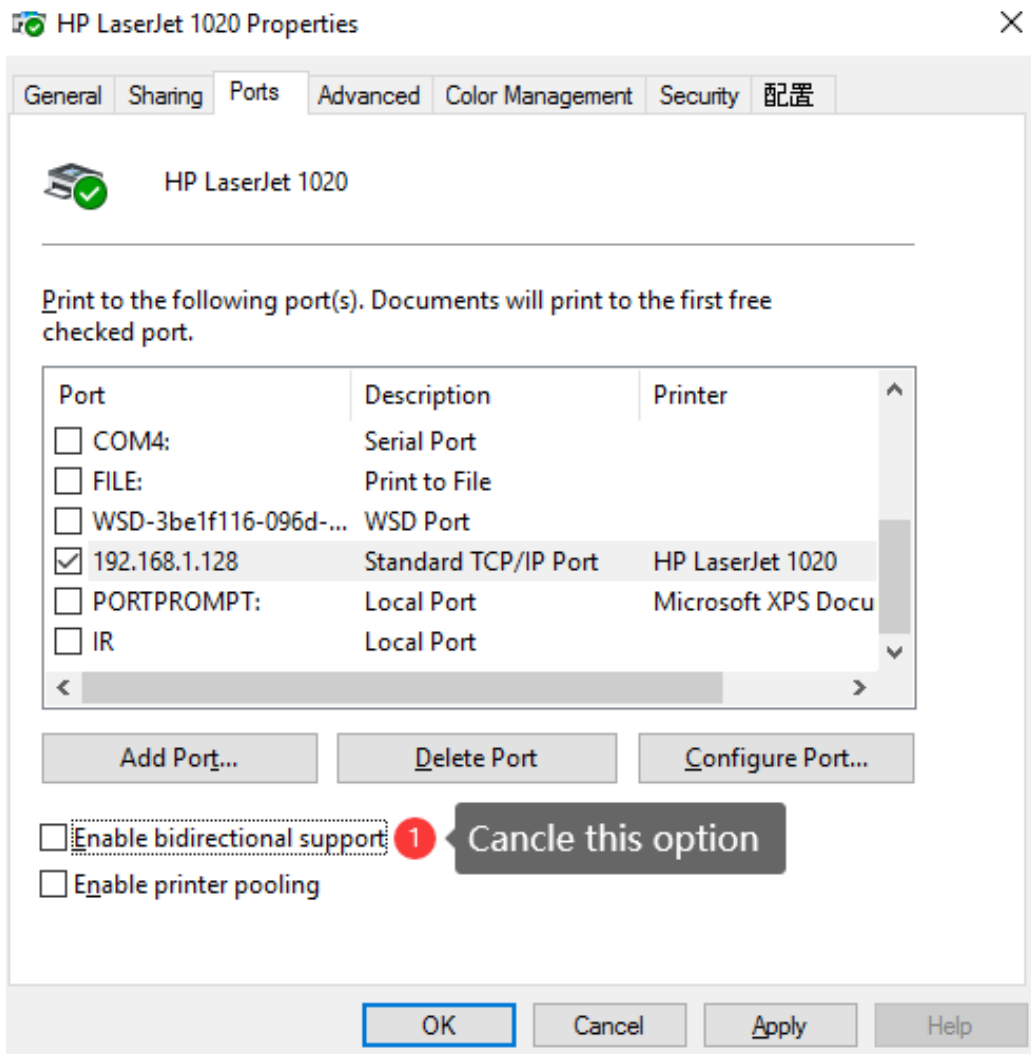


Image 19



After installing the printer driver, some printers come with the default **IMF** data format, so we need to change it into **RAW** data format. Please refer to the **Image 20**:

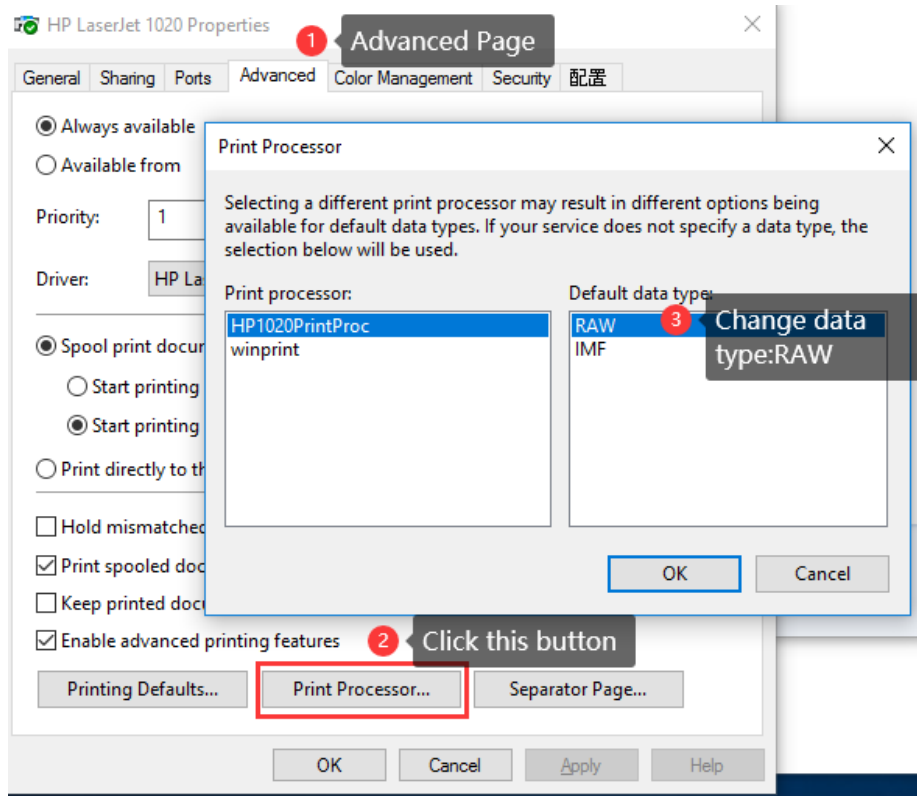


Image 20

Now all settings have been completed, we can start to print a test page.

