

10/100Mbps Ethernet to Parallel Network Print Server



**Actual product may vary from photos*

User Manual

SKU: PM1115P3

For the latest information and specifications visit
www.StarTech.com/PM1115P3

Manual Revision: 08/09/2024

Compliance Statements

FCC Compliance Statement

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 to 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.

Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the device. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulation

CAN ICES-3 (B)/NMB-3(B)

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) L'appareil ne doit pas produire de brouillage, et (2) L'utilisateur de l'appareil

doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CE EMC/EMI

StarTech.com hereby declares that this device complies with the Electromagnetic Compatibility Directive (EMC).

A copy of the EU Declaration of Conformity is available at: www.startech.com/PM1115P3 under the Product Support tab.

EU CE RoHS Environmental

StarTech.com hereby declares that this product complies with the Restriction of Hazardous Substances (RoHS) directive of the European Parliament and the Commission Delegated Directive (EU).

A copy of the EU Declaration of Conformity is available at: www.startech.com/PM1115P3 under the Product Support tab.

EU REACH Declaration

This product complies with the Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC) of the European Parliament and the Council. The product does not contain any of the Substances of Very High Concern (SVHC) or Restricted Substances above the threshold values declared by the European Agency for Chemicals (ECHA) on their website's documented/maintained lists.



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Safety Statements

Safety Measures

- Wiring terminations should not be made with the product and/or electric lines under power.
- Cables (including power and charging cables) should be placed and routed to avoid creating electric, tripping or safety hazards.

Veiligheidsmaatregelen

- De bedrading mag niet worden aangesloten terwijl het product en/of de elektrische leidingen onder stroom staan.
- Kabels (inclusief stroom- en oplaadkabels) moeten zo worden geplaatst en geleid dat er geen gevaar ontstaat voor elektriciteit, struikelen of veiligheid.

Mesures de sécurité

- Les terminaisons de câblage ne doivent pas être effectuées lorsque le produit et/ou les câbles électriques sont sous tension.
- Les câbles (y compris les câbles d'alimentation et de chargement) doivent être placés et acheminés de façon à éviter tout risque électrique, de chute ou de sécurité.

Sicherheitsmaßnahmen

- Die Verdrahtung darf nicht mit dem Produkt und/oder elektrischen Leitungen unter Strom erfolgen.
- Kabel (einschließlich Strom- und Ladekabel) sollten so verlegt werden, dass sie keine Strom-, Stolper- oder Sicherheitsgefahren darstellen.

Misure di Sicurezza

- I terminali dei fili elettrici non devono essere realizzate con il prodotto e/o le linee elettriche sotto tensione.
- I cavi (inclusi i cavi di alimentazione e di ricarica) devono essere posizionati e stesi in modo da evitare pericoli di inciampo, rischi di scosse elettriche o pericoli per la sicurezza.

Medidas de seguridad

- Las terminaciones del cableado no deben realizarse con el producto y/o las líneas eléctricas bajo tensión.
- Los cables (incluidos los de alimentación y carga) deben colocarse y tenderse de forma que no creen riesgos eléctricos, de tropiezo o de seguridad.

安全対策

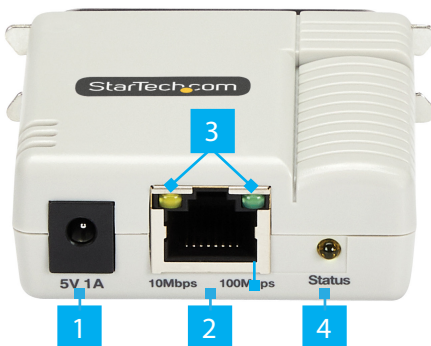
- 電源が入っている状態の製品または電線の終端処理を行わないでください。
- ケーブル(電源ケーブルと充電ケーブルを含む)は、適切な配置と引き回しを行い、電気障害やつまづきの危険性など、安全上のリスクを回避するようにしてください。

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Product Diagram

Front View



Rear View

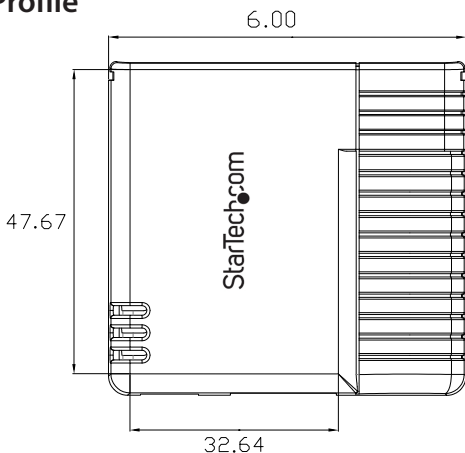


**Actual product may vary from photos*

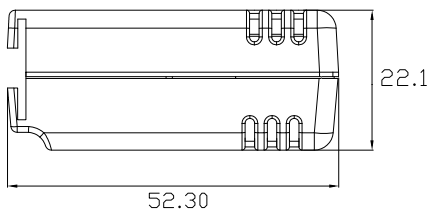
	Components	Function
1	DC Power Port	<ul style="list-style-type: none"> Used to power the Print Server with the included 5V 1A Power Adapter
2	RJ45 Port	<ul style="list-style-type: none"> Used to connect the Print Server to a Network
3	RJ45 LEDs	<ul style="list-style-type: none"> Left LED illuminates Yellow when connected at 10Mbps Right LED illuminates Green when connected at 100Mbps
4	Status LED	<ul style="list-style-type: none"> Flashes Yellow when power is supplied Turns Solid Yellow until a network link has been established
5	Reset Button	<ul style="list-style-type: none"> Press once to Restart the Print Server Press and Hold for 5 Seconds to send a Test Page to the connected Parallel Printer To restore the Factory Default settings, Press and Hold for 10 Seconds, then Release <p><i>Note: The Reset Button is recessed. Use a fine object to press it</i></p>
6	Parallel Port	<ul style="list-style-type: none"> Centronics 36-Pin Parallel Port use to connect to a Parallel Printer

Product Dimensions

Top Profile



Side Profile



Product Information

Requirements

For the latest product information, technical specifications, manuals, and Declarations of Conformance, please visit:

www.StarTech.com/PM1115P3

- Printer with a Centronics 36-Pin Parallel Port
- Host Computer with an RJ45 Ethernet Port. Built-in or Using an External Adapter
- RJ45 Ethernet Cable

Package Contents

- Parallel Print Server x 1
- Power Adapter x 1
- Quick-Start Guide x 1

Installation

Setting Up the Print Server

Windows

1. Ensure that the **Host Computer** is connected to the **Network** to which the **Print Server** will be connected.
2. **Right-Click** on the **Start Menu** and select **Command Prompt** or **Terminal**, depending on the Windows version. Alternatively, type **CMD** in the **Search Bar** and select **Command Prompt**. (Figure 1)

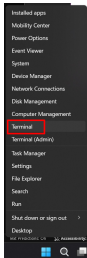


Figure 1

3. In the **Command Prompt** or **Terminal**, type the command **ipconfig** and press **Enter**. (Figure 2)

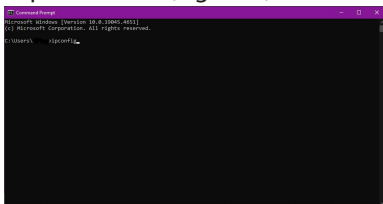


Figure 2

- Take note of the **Existing Network** details, **IPv4 Address**, **Subnet Mask**, and **Default Gateway** addresses, as they will be referenced later in the setup. (Figure 3)

```
Windows IP Configuration

Ethernet adapter Ethernet:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Ethernet adapter Ethernet 3:

    Connection-specific DNS Suffix  . : startech.com
    Link-local IPv6 Address . . . . . : fe80::f3d8:820a:d5a2:7c4f%6
    IPv4 Address. . . . . : 192.168.209.6
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.209.1
```

Figure 3

- Navigate to **System Settings** and select **Network & Internet**. (Figure 4)

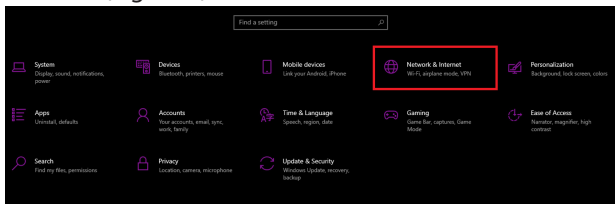


Figure 4

- Click **Change adapter options**. (Figure 5)

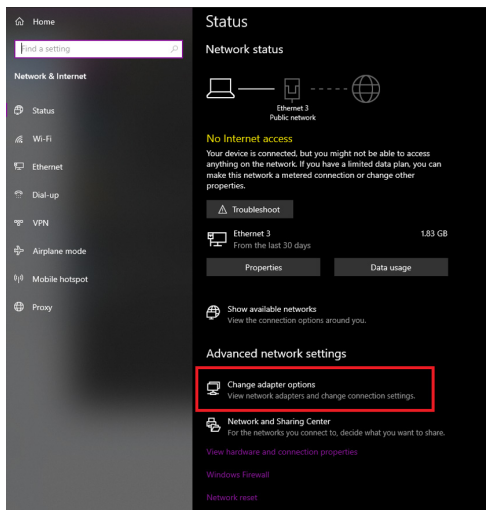


Figure 5

- On the next screen, **Right-Click** the **RJ45 Ethernet Device** that will be connected to the **Print Server** and select **Properties**.

Note: The Host Computer must have an RJ45 Ethernet Port, either built-in or via an external adapter.

- In the **Properties Window**, select **Internet Protocol Version 4 (TCP/IPv4)** and then click **Properties** to the lower right. (Figure 6)

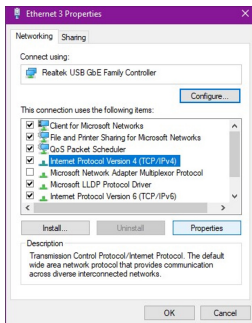


Figure 6

9. Set the following settings. (Figure 7)

- **IP address:** 192.168.0.15
- **Subnet mask:** 255.255.255.0
- **Gateway:**

(blank)

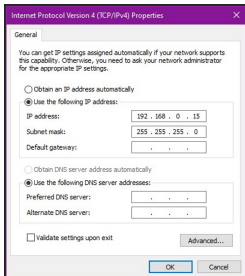


Figure 7

10. Continue on the **Hardware Installation** section of this

macOS

1. Ensure that the **Host Computer** is connected to the **Network** to which the **Print Server** will be connected.
2. Navigate to **Settings** and select **Network** from the **Left Pane**. Click on the **Network Interface** that is currently connected to the **Existing Network**. (Figure 8)

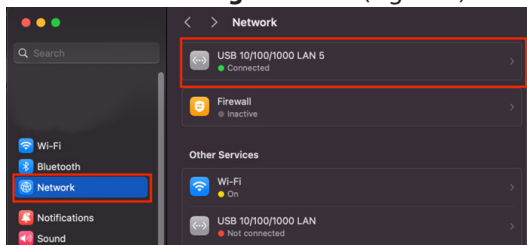


Figure 8

3. Take note of the **Existing Network** details, **IP address**, **Subnet mask**, and **Router** addresses, as they will be referenced later in the setup. (Figure 9)

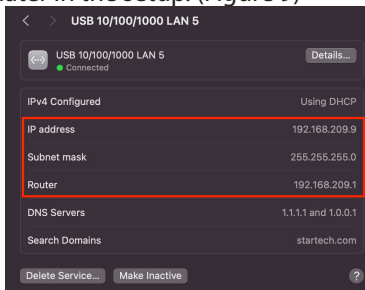


Figure 9

4. Navigate to **Settings** and select the **RJ45 Ethernet Device** that will be connected to the **Print Server**. (Figure 10)

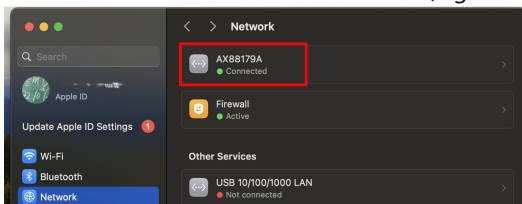


Figure 10

5. In the interface screen, click **Details**. (Figure 11)

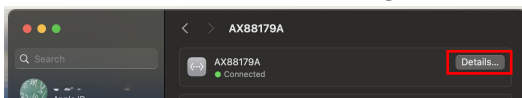


Figure 11

6. Select **TCP/IP** on the **Left Pane**. On the **Configure IPv4** field, change it from **Using DHCP** to **Manually**. (Figure 12)

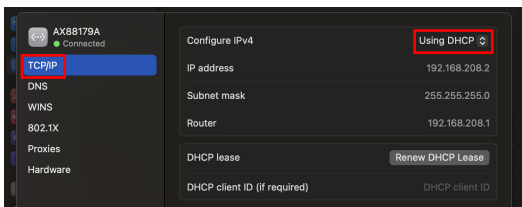


Figure 12

7. Set the following settings. Click **OK** when ready. (Figure 13)

- **IP address:** 192.168.0.15
- **Subnet mask:** 255.255.255.0
- **Router:** (blank)

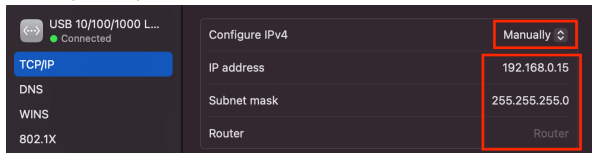


Figure 13

8. Continue on the **Hardware Installation** section of this document.

Hardware Installation

Default Settings

- **DHCP client:** off
- **IP address:** 192.168.0.10
- **Subnet mask:** 255.255.255.0

1. Turn **Off** the **Parallel Printer**.
2. Disconnect the **Host Computer** from the **Existing Network**.
3. Connect the **Print Server** to a **Parallel Printer** with an appropriate **Centronics 36-pin Parallel Printer Cable** or directly onto the **Printer's Parallel Port**.
4. Turn **On** the **Parallel Printer**.
5. Connect an **RJ45 Ethernet Cable** between the **Print Server** and the **Host Computer**.
6. Plug the **Power Adapter** into the **DC Power Port** on the **Print Server**.
7. Wait until the **Status LED** has stopped flashing.
8. Continue on the **Configure the Print Server via a Web Browser** section of this document.

Configure the Print Server via a Web Browser

1. Access the **Web Interface** of the **Print Server** by entering **192.168.0.10** (default IP address) in the **Address Bar** of a **Web Browser**.

Note: If the Print Server has been configured before, use the IP address set at that time instead of the default.

2. Log into the **Web Interface** with the default credentials (if prompted).
 - **Username:** admin
 - **Password:** (blank)
3. Click the **Setup** tab, then click **TCP/IP**. (Figure 14)

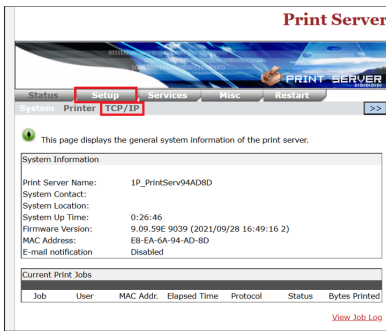


Figure 14

4. Select **Use the following TCP/IP settings**. (Figure 15)

Note: Use the previously gathered information of the Existing Network [as shown in Step 4 (Windows) on Page 6 or Step 3 (macOS) Page 9] from the Manually Setting Up the

Print Server section.

- a. Set the **IP address** to an available one within the default range of the **Existing Network**.
 - In this example, **xxx.xxx.xxx.99** was used because it is unlikely to cause a conflict. Use the **IP address 99** if preferred or a different one. Take note of this **New IP address**.
 - Ensure the leading **Three Octets** of the **IP address** entered match the **Existing Network/Gateway**, e.g., **192.168.209.xxx**.
- Note:** This is the Print Server's New IP address. In the future, this will be used to connect to it and change settings.
- b. Set the **Subnet mask** to match the **Existing Network**. Typically, **255.255.255.0**.
- c. Set **Gateway** to the **Default Gateway/Router** address of the **Router** or **Modem** from the **Existing Network**.

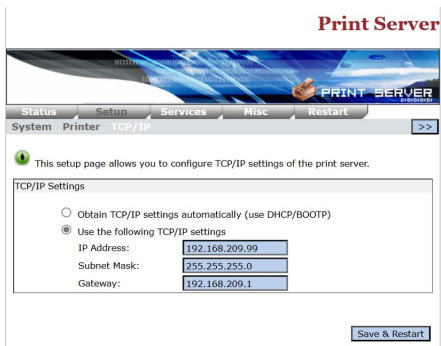


Figure 15

5. Click **Save & Restart** at the bottom of the page. Allow the **Print Server** to reboot.
6. Reverse the changes made on [as shown in **Step 9** (Windows) on **Page 8** or **Step 7** (macOS) on **Page 11**] the **Manually Setting Up the Print Server** section. This enables the **Host Computer** to automatically (DHCP) obtain the settings from the **Router** or **Modem**.
 - a. Windows. Enable **Obtain an IP address automatically** and **Obtain DNS server address automatically**. (Figure 16)
 - b. macOS. Enable **Using DHCP**. (Figure 17)

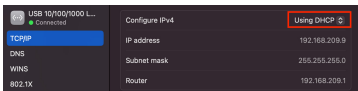
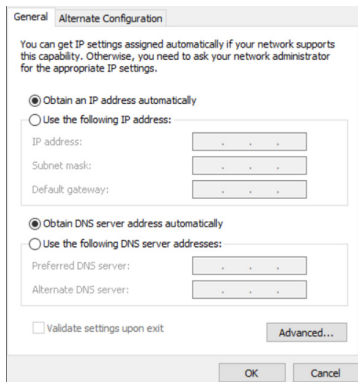


Figure 16 and Figure 17

7. Access the **Web Interface** of the **Print Server** by entering the **Print Server's New IP address**, [as shown in **Step 4.a** on **Page 14**] of this section, in the **Address Bar** of a **Web Browser**.

Note: If the Web Interface is accessible, all settings are working as expected.

- If prompted, login with the default credentials from **Step 2** of this section.
- Navigate to the **Setup** tab, then click the **Printer** sub-tab to ensure the connected **Printer** is being detected. (Figure 18)

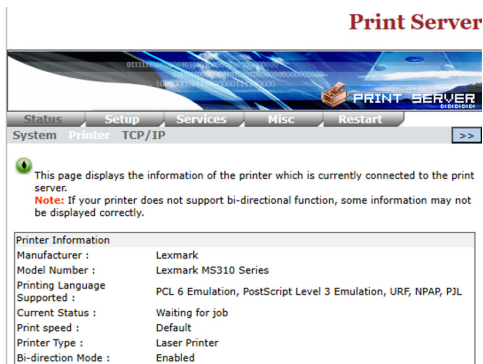


Figure 18

- Disconnect the **RJ45 Ethernet Cable** between the **Print Server** and the **Host Computer**.
- Connect the **Print Server** to the **Existing Network** (e.g., router or modem) with an **RJ45 Ethernet Cable**.
- Connect the **Host Computer** to the same **Network** as the **Print Server** using a **Wireless** (if available) or **Wired** connection with an **RJ45 Ethernet Cable**.

Setting up a Printer

Windows

1. Find the **Printer's Make and Model**. Visit the manufacturer's website to **Download** and **Install** the latest **Drivers** on the **Host Computer**.
2. Navigate to the Windows **Settings** screen and select the **Devices** icon. (Figure 19)

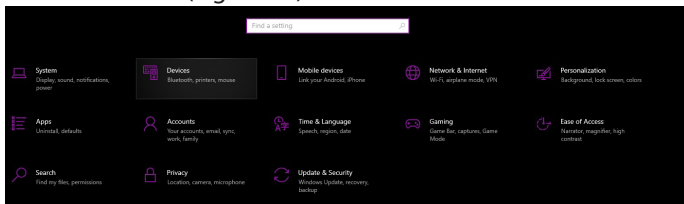


Figure 19

3. Select **Printers & Scanners** on the left pane, then click **Add a printer or scanner**. (Figure 20)

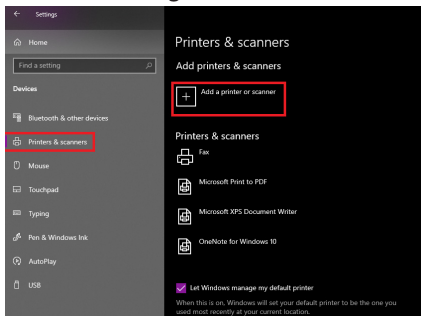


Figure 20

For additional self-service support options and community forums, please visit: www.StarTech.com/support

4. On the **Add printers & scanners** screen, click **The printer that I want isn't listed.** (Figure 21)

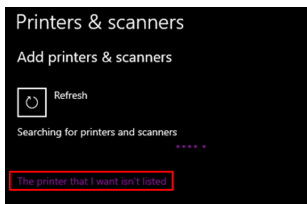


Figure 21

5. On the **Add Printer** screen, select **Add a printer using a TCP/IP address or hostname**, then click **Next.** (Figure 22)

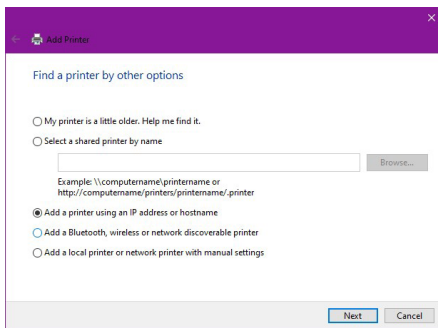


Figure 22

6. On the **Add Printer** screen, on the **Hostname or IP address**, field enter the **New IP address** assigned to the **Print Server** [as shown in **Step 4.a** on **Page 14**] from the **Configure the Print Server via a Web Browser** section. Then click **Next.** (Figure 23)

Note: Leave Query the printer and automatically select the driver unchecked.

Windows will attempt to detect the TCP/IP port and move to the next screen automatically.

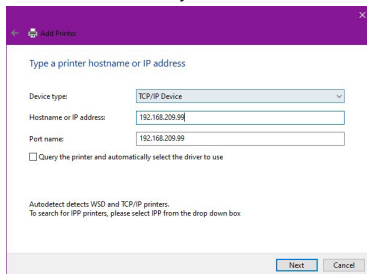


Figure 23

7. On the **Add Printer** screen, select the **Custom** option. Click **Next**. (Figure 24)

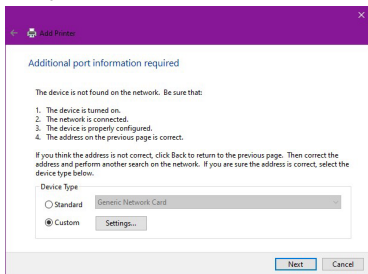


Figure 24

8. On the **Configure Standard TCP/IP Port Monitor** screen, select the **Protocol** to **LPR**. Under **LPR Settings**, enter **lp1**

into the **Queue Name** field. Click **OK**. (Figure 25)

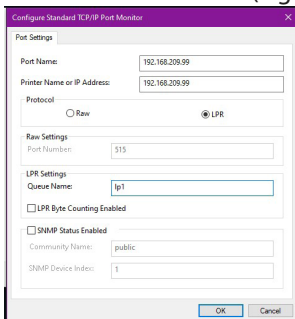


Figure 25

9. The **Add Printer** screen will reappear. Click **Next**.
10. Windows will attempt to detect the **Printer Driver** automatically. If Windows fails to detect the proper **Printer Driver**, select the **Printer's Manufacturer** and **Model** from the **Install the Printer Driver** screen that appears. Click **Next**.(Figure 26)

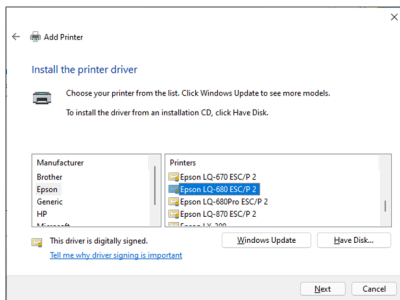


Figure 26

For additional self-service support options and community forums, please visit: www.StarTech.com/support

Note: If the printer Model doesn't appear in the list:

Ensure that the Printer Driver has been downloaded and installed by looking up the Printer Model on the Printer manufacturer's website. This is the preferred method.

Alternatively, try selecting Windows Update (this process may take several minutes) to update the list of Printer Models.

11. If the **Which version of the driver do you want to use?** screen appears, select **Replace the current driver**. Click **Next**. (Figure 27)

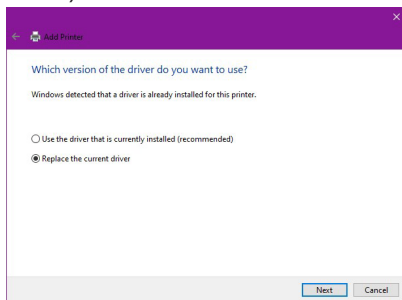


Figure 27

12. On the **Type a printer name** screen, enter a name for the **Printer**. Use any name that helps recognize the **Printer** once it's installed, e.g., PM1115P3 - Lexmark MS310 Series V2 XL. Click **Next**. (Figure 28)

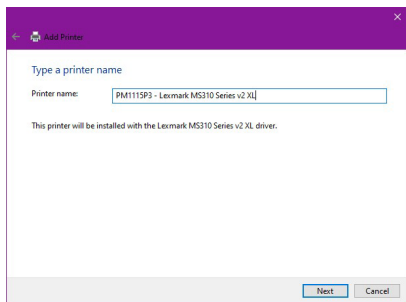


Figure 28

13. Choose whether or not to share the **Printer** with other network users. Click **Next**. (Figure 29)

Note: If unsure of sharing the Printer, select Do not share, as this can also be done later.

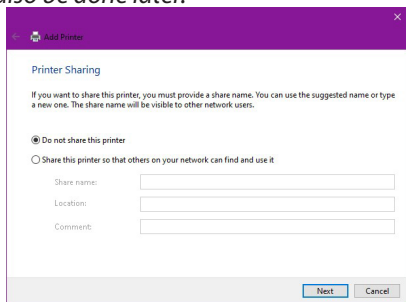


Figure 29

14. Do not **Print a test page**. Choose whether or not to make this the **Default Printer**. Click **Finish**.

15. Navigate to the Windows **Settings** screen and select the **Devices** icon. Select **Printers & Scanners** on the left pane.
16. Click on the recently installed **Printer**. Click on **Manage**. (Figure 30)

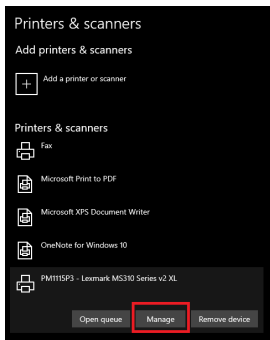


Figure 30

17. On the next screen, click on **Printer Properties**. (Figure 31)

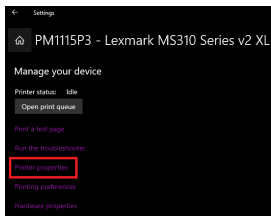


Figure 31

18. Click the **Ports** tab and ensure the **Enable bidirectional support** check box is **Not Checked**, then click **OK**. (Figure 32)

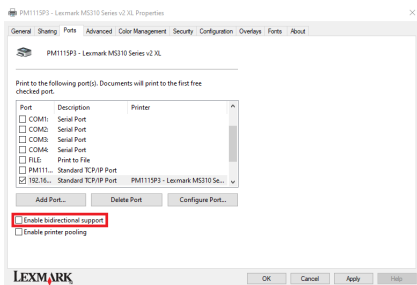


Figure 32

19. Click **Print a test page**. A printout with information about the **Printer** and **Print Server** should be printed to ensure everything is working as expected. (Figure 33)



Figure 33

macOS

1. Find the **Printer's Make** and **Model**. Visit the manufacturer's website to **Download** and **Install** the latest **Drivers** on the **Host Computer**.
2. Navigate to **Settings** and select **Printers & Scanners** on the left (Usually near the bottom) and click **Add Printer, Scanner, or Fax....** (Figure 34)

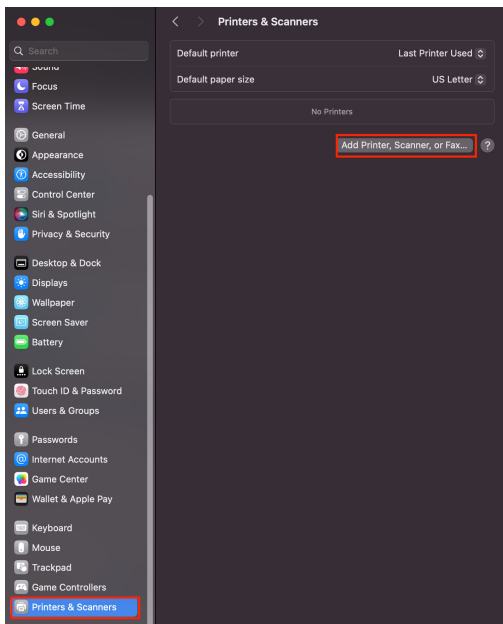


Figure 34

3. Select the **IP** option at the top and use the following information. Once all settings are entered, click **Add** (Figure 35)
 - **Address:** Enter the new **IP address** assigned to the **Print Server** [as shown in **Step 4.a** on **Page 14**] from the **Configure the Print Server via a Web Browser** section.
 - **Protocol:** Line Printer Daemon – LPD
 - **Queue:** lp1
 - **Name:** Use any name that helps recognize the **Printer** once it's installed, e.g., PM1115P3 - Lexmark MS310 Series V2 XL. The default name is the **IP address**
 - **Use:** Select the **Driver** from **Step 1** [as show on **Page 25**]
 - Open the drop-down and choose the **Select Software...** option
 - Look through the list to find the **Printer Make** and **Model**, e.g, Lexmark Universal Mono. (Figure 36)
 - Click **OK**

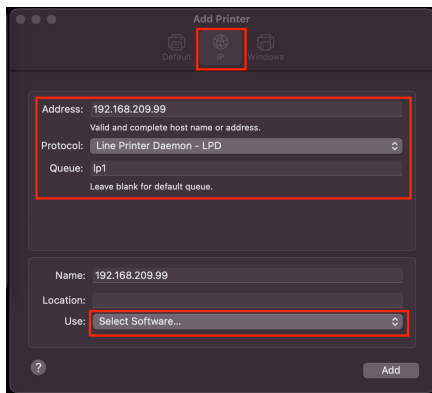


Figure 35

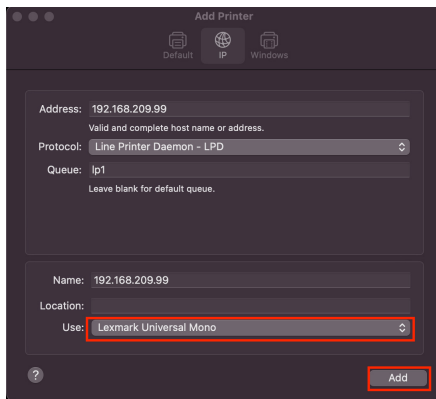


Figure 36

4. Click on the **Printer** entry. (Figure 37)

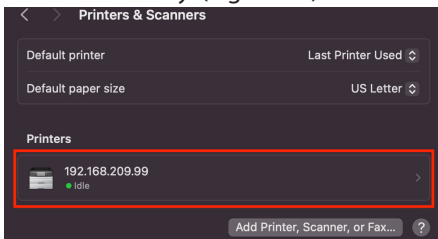


Figure 37

5. Click on **Printer Queue**. (Figure 38)

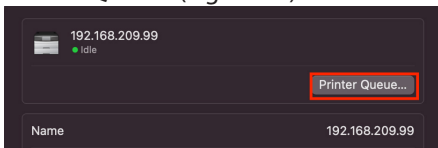


Figure 38

6. Click the **Printer** menu bar and select **Print Test Page**. A printout with information about the **Printer** and **Print Server** should be printed to ensure everything is working as expected. (Figure 39)

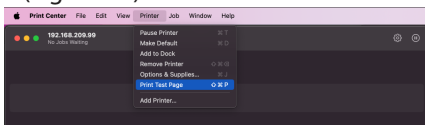


Figure 39

Warranty Information

This product is backed by a two-year warranty.

For further information on product warranty terms and conditions, please refer to www.startech.com/warranty.

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