MFP	Technical Tip
TT-052421_1	

Models: **All MX Models**

Priority Medium

Date: May 2021

Subject: **Universal Print from Microsoft**

In March of this year, Microsoft announced a new cloud printing service called "Universal Print".

**What is Universal Print from Microsoft?**

Universal Print is a modern print solution that organizations can use to manage their print infrastructure through cloud services from Microsoft.
Sharp will launch a new Universal Print compatible product in late 2021. In addition, Universal Print can be deployed with existing Sharp MFPs by using the Universal Print connector software from Microsoft.

For detailed license conditions of Universal Print Service, refer to: https://aka.ms/UP_TryNow

There are two ways of printing through Universal Print:

1) Via Universal Print connector
2) Using Universal Print Compatible MFP
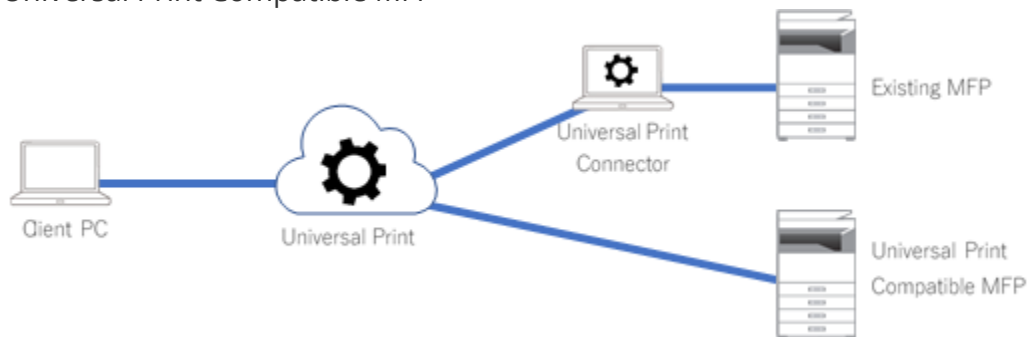
Print via Universal Print connector

Setup

1. Based on the table below, install the Printer Driver for the target MFP onto the PC where the Universal Print connector is installed, and make sure that the driver is ready to print.

2. Download and install the Universal Print connector.

3. Register the Printer Driver installed at step 1 with the Universal Print portal. Launch the Universal Print connector, select the Printer Driver from the "Available Printers" list, and click the "Register" button.

4. Grant user permissions to the registered driver.

1. Access the Microsoft Azure portal website.

2. Select Universal Print > Manage Printers.

3. Select the Printer Driver and then click Share Printer.

4. Select the user you want to allow access to and then click Share Printer.

For detailed procedures, refer to: https://docs.microsoft.com/universal-print/fundamentals/universal-print-getting-started

Supported Models and Printer Drivers

Category	Supported Models	Printer Driver
A3 Color	BP-30C25	"SHARP PCL6 V4 Printer Driver for Universal Print"
	MX-2630N, MX-3070N, MX-3570N, MX-4070N, MX-3060N, MX-3560N, MX-3050N, MX-3550N, MX-4050N, MX-4060N, MX-5070N, MX-6070N, MX-5050N, MX-6050N, MX-3070V, MX-3570V, MX-4070V, MX-3060V, MX-3560V, MX-4060V, MX-3050V, MX-3550V, MX-4050V, MX-5050V, MX-5070V, MX-6050V, MX-6070V	
	MX-3061, MX-3071, MX-3561, MX-3571, MX-4061, MX-4071, MX-2651, MX-3051, MX-3551, MX-4051, MX-5071, MX-6071, MX-5051, MX-6051	
	MX-6580N, MX-7580N	
	MX-7081, MX-8081	
	MX-7090N, MX-8090N,	
A3 Monochrome	MX-M2630, MX-M3070, MX-M3050, MX-M3570, MX-M3550, MX-M4070, MX-M4050, MX-M5070, MX-M5050, MX-M6070, MX-M6050	
	MX-M2651, MX-M3071, MX-M3051, MX-M3571, MX-M3551, MX-M4071, MX-M4051, MX-M5071, MX-M5051, MX-M6071, MX-M6051	
	MX-M6570, MX-M7570	

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	MX-M905	
A4	MX-C304W, MX-C303W	
	MX-B355W, MX-B455W	
	MX-B356W, MX-B376W, MX-B456W, MX-B476W	
	MX-C357F, MX-C407F, MX-C507F, MX-C557F, MX-C607F	Please use PCL6(XL) printer driver of each model
	MX-C407P, MX-C507P, MX-C607P	
	MX-B427W, MX-B467F	
	MX-B557F, MX-B707F	
	MX-B427PW, MX-B467P	
	MX-B557P, MX-B707P	

Supported Print Functions List

The print functions that can be used are as follows:

Color Mode	Available
Copies/Collate	Available
Orientation	Available
2-Sided Printing	Available
Paper Size	Available
Paper Type	Available
N-up	Available
N-up Order	No
Paper Tray	Available
Output	No
Staple	Available
Position	Available
Punch	No
Resolution	Available

Appendix1 [Universal Print] Print settings supported by the printer driver

Driver Name: SHARP PCL6 V4 Printer Driver for Universal Print - Version: 01.01.09.07

Items	Values		Supported
Color	Auto / Color / Grayscale		✓
Paper type	Auto / Plain / Letter head / Label / OHP		✓
	Color paper / Heavy paper / Envelope / Photo paper		
Paper size	A3 / A4 / A5 / B4 / B5		✓
	Letter / Legal / Executive / Invoice		✓
	JapanHagakiPostcard		✓
	A0 / A1 / A2 / A3 wide / A4 Wide / A6 / Long Paper		
	13x19 / 12x18 / 8.5x13.4 / Foolscap / 8K / 16K / 216x343 / 320x450 (SRA3) / 225 x 320 (SRA4)		
	DL / C4 / C5 / C6 / COM9 / COM10 / Monarch		
	Japanese envelope Kaku2 / Kaku3 / Chou3 / Chou4 / Chou40 / You2 / You4		
	JapanHagakiDoublePostcard		
	Custom Paper / User 1 / 2 / 3 / 4 / 5 / 6 / 7		
Paper tray	Auto / Tray 1 / Tray 2 / Tray 3 / Tray 4		✓
	Tray 5 / Tray 6 / Tray 7 / Tray 8 / LCT / Bypass tray		
Output tray			
Finishing	Staple	1 Staple (Left or Top)	✓
		1 Staple (Right)	✓
		2 Staple (Left)	✓
		2 Staple (Right)	✓
		2 Staple (Top)	✓
		Saddle Stitch	✓
	Punch		
	Position	Left / Right / Top	✓
Fit to page			Depends on the app
Number of copies			✓
Collate			✓
Printing range			Depends on the app
Orientation	Portrait / Landscape		✓
N-up	1-up / 2-up / 4-up / 6-up / 8-up / 9-up / 16-up		✓
	Order		
Duplex	Long edge / Short edge		✓
Quality	Draft / Normal / High		
Resolution	600dpi / 1200dpi		

Appendix2: Limitations regarding SHARP v4 Printer Driver for Universal Print

Driver Name: SHARP PCL6 V4 Printer Driver for Microsoft Universal Print - Version: 01.01.09.07

Limitation #1

Phenomenon: Specifying staple position ([Left edge], [Right edge], [Top edge]) in [Document binding] does not work.

Cause: The selection in [Document binding] will not be reflected since specification of

staple position is included in [Stapling].

How to mitigate: If you specify staple position, use selection in [Stapling].

Limitation #2

Phenomenon: [Back to Front] in [Page Order] does not work.

Cause: Factory guesses this is because of the behavior of OS module.

Limitation #3

Phenomenon: There is no exclusive restriction on UI between features.

Cause: Due to the specifications of Universal Print, there is no exclusive restriction

between features. A feature that is exclusive with other ones can be specified,

however, all the specified features cannot be processed in the job.

Limitation #4

Phenomenon: Devices with the same model and the same port name cannot be registered on

Universal Print Connector.
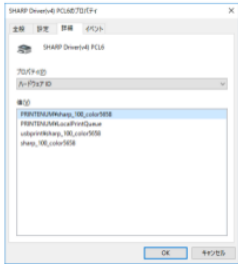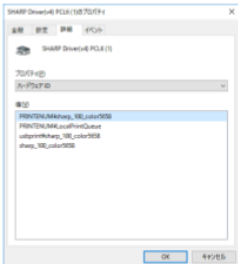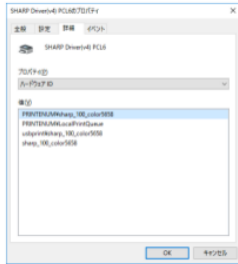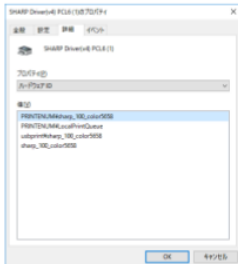
Cause: Devices with the same model and the same port name cannot be registered due

to the specifications of Universal Print.

For the detail, see Page 8.

How to mitigate: If you register devices with the same IP address, change port names for each

device according to Page 9 and after.

[Reference] Limitation #4

Devices with the same model and the same port name cannot be registered on Universal Print Connector.

	pattern (1) Two v4 drivers Same driver name (same hardware ID) Different printer name Same IP address / Port name		pattern (2) Two v4 drivers Same driver name (same hardware ID) Different printer name Same IP address / Different Port name	
	SHARP		SHARP	
	SHARP Driver(v4) PCL6	SHARP Driver(v4) PCL6 (1)	SHARP Driver(v4) PCL6	SHARP Driver(v4) PCL6 (1)
Hardware ID				
	PRINTENUM¥sharp_100_color5658	PRINTENUM¥sharp_100_color5658	PRINTENUM¥sharp_100_color5658	PRINTENUM¥sharp_100_color5658
	PRINTENUM¥LocalPrintQueue	PRINTENUM¥LocalPrintQueue	PRINTENUM¥LocalPrintQueue	PRINTENUM¥LocalPrintQueue
	usbprint¥sharp_100_color5658	usbprint¥sharp_100_color5658	usbprint¥sharp_100_color5658	usbprint¥sharp_100_color5658
	sharp_100_color5658	sharp_100_color5658	sharp_100_color5658	sharp_100_color5658
Port name	10.36.102.21	10.36.102.21	10.36.102.21	10.36.102.21_1
IP address	10.36.102.21	10.36.102.21	10.36.102.21	10.36.102.21
Registration result to Universal Print	Only one printer driver is registered in UP.		Both printer drivers are registered in UP.	

[Reference] Limitation #4

How to mitigate:

If you register devices with the same IP address, change port names for each device

according the following steps.

e.g.

(1) MFP-A(IP Address : 10.36.102.100) - Printer Name: MX-4071-1 (Port Name: 10.36.102.100_1)

(2) MFP-A(IP Address : 10.36.102.100) - Printer Name: MX-4071-2 (Port Name: 10.36.102.100_2)

(3) MFP-B(IP Address : 10.36.102.200) - Printer Name: MX-M4071 (Port Name: 10.36.102.200)

1. Execute [setup.exe] to start the installer.
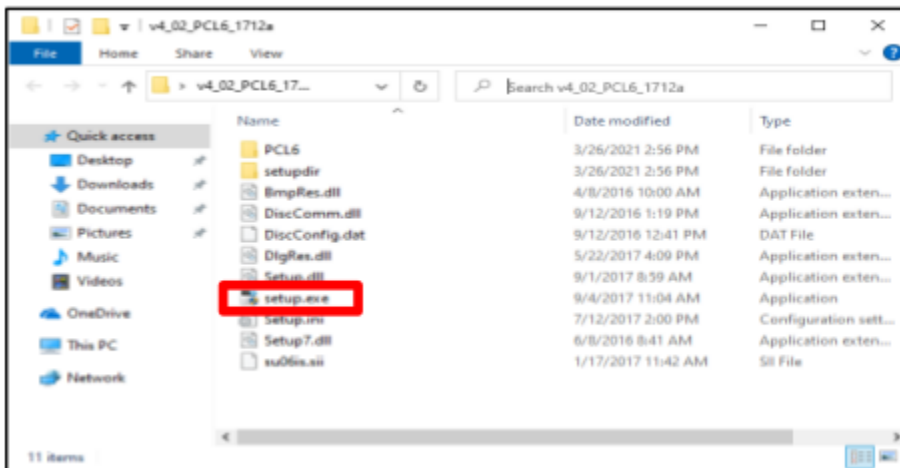
2. Select [Custom installation].

3. Select [Use an existing port] and [Next].
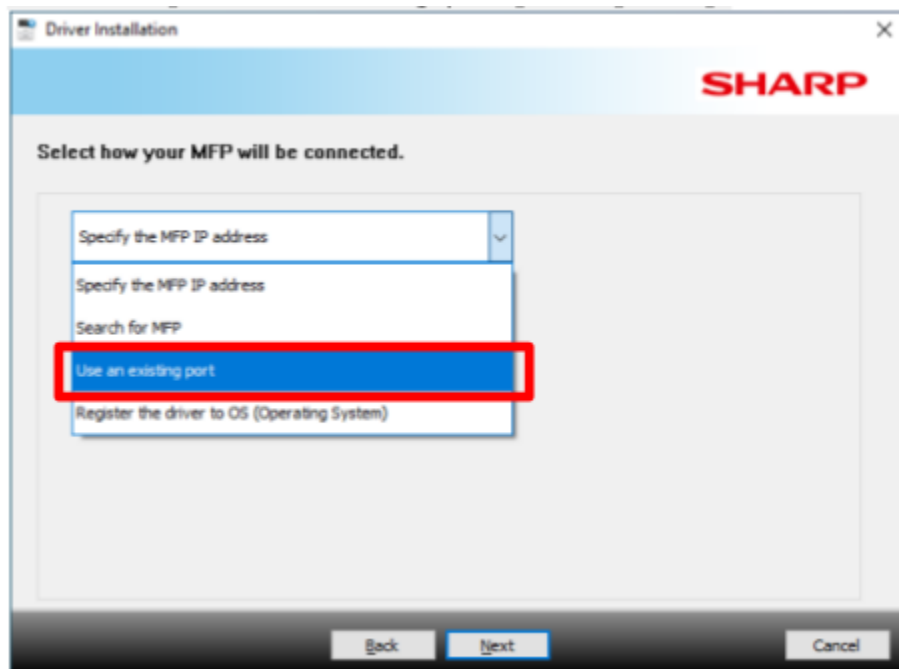
4. Select [SHARP Driver(v4)] and click [Add a printer].
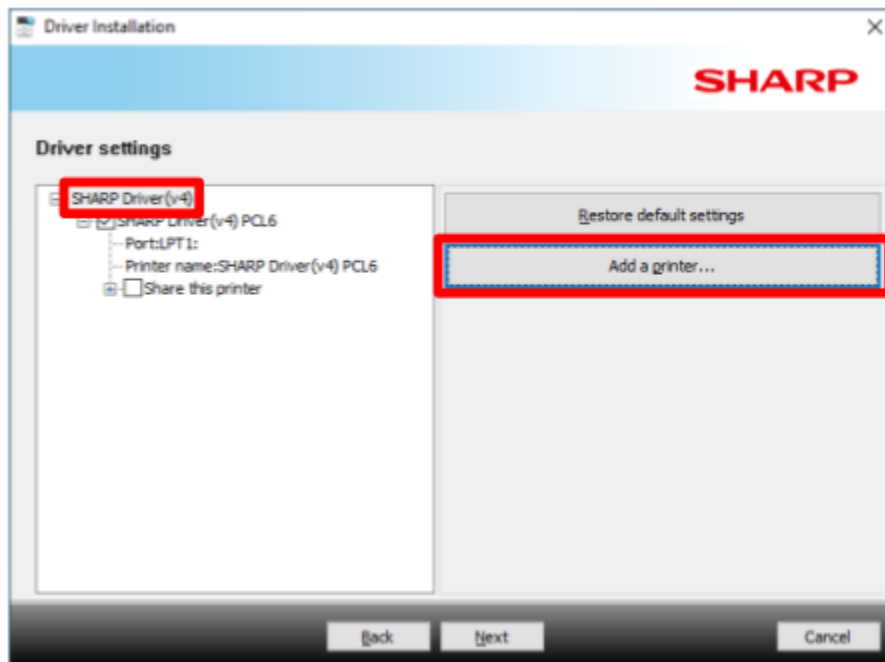
In this example, click [Add a printer] twice to create three trees.
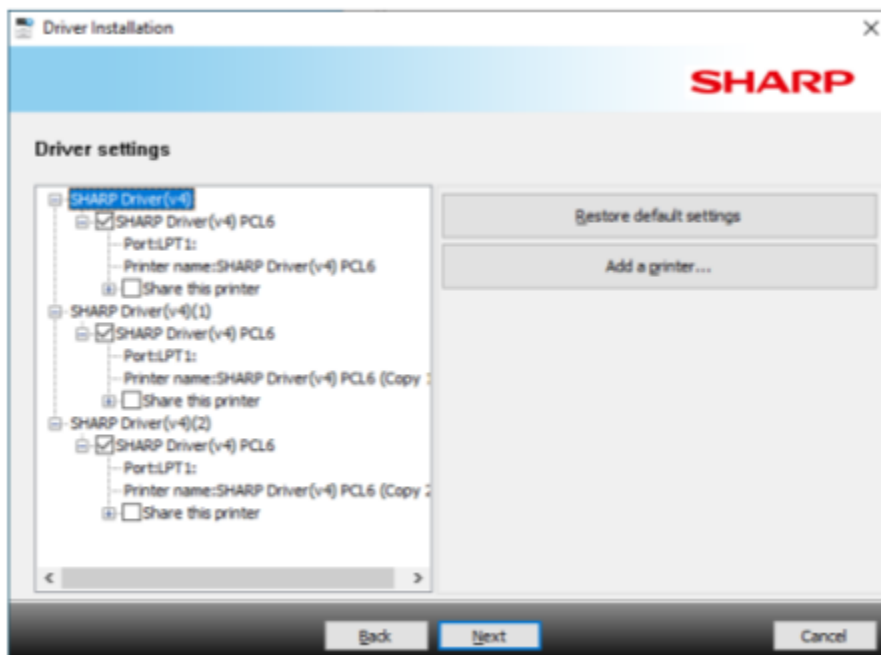
5. Select [Port] in the first tree and click [Add Port].
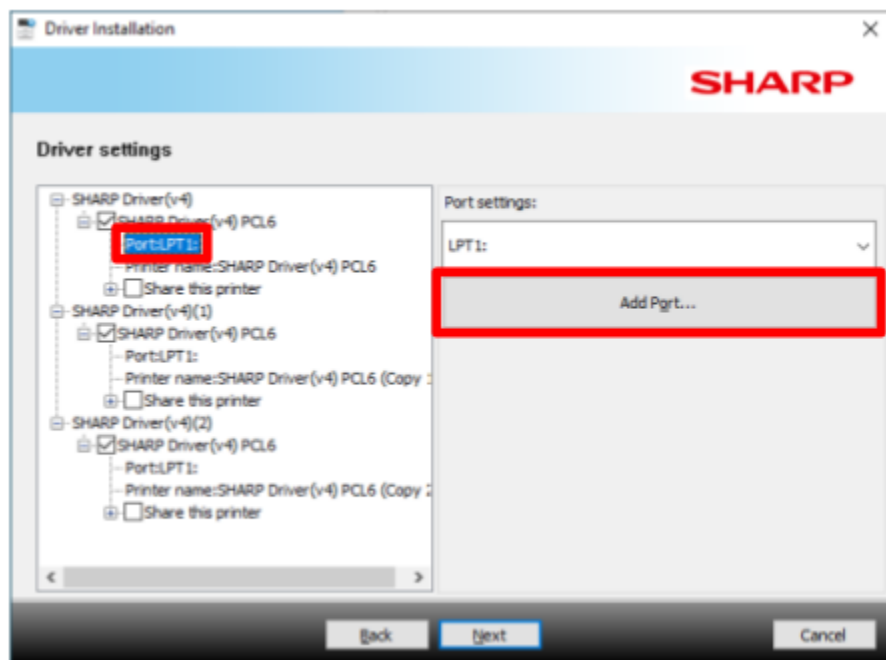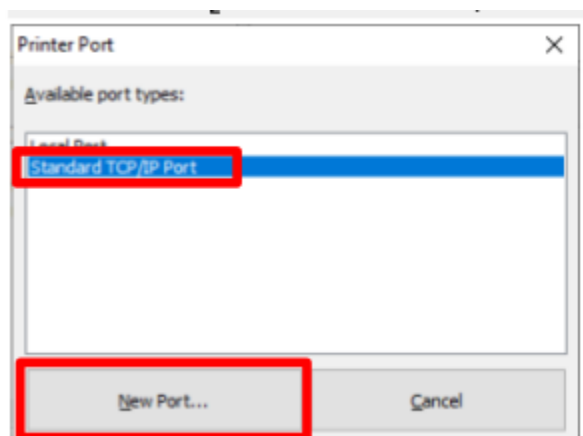

6. Select [Standard TCP/IP Port] and click [New Port].
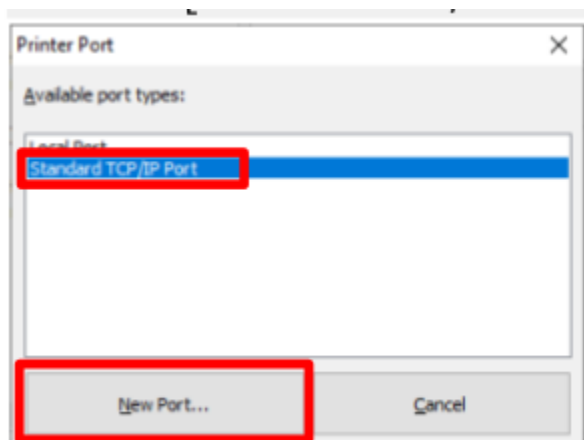
7.Enter the IP address of the MFP-A in the [Printer name or IP Address] field, and enter a name

such as [IP Address + "_1"] in the [Port Name] field.

8. Select [Port] in the second tree and click [Add Port].

9. Select [Standard TCP/IP Port] and click [New Port].
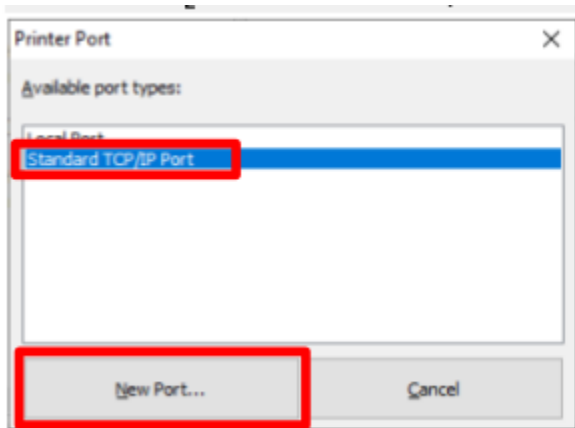
10. Enter the IP address of the MFP-A in the [Printer name or IP Address] field, and enter a

name such as [IP Address + "_2"] in the [Port Name] field.
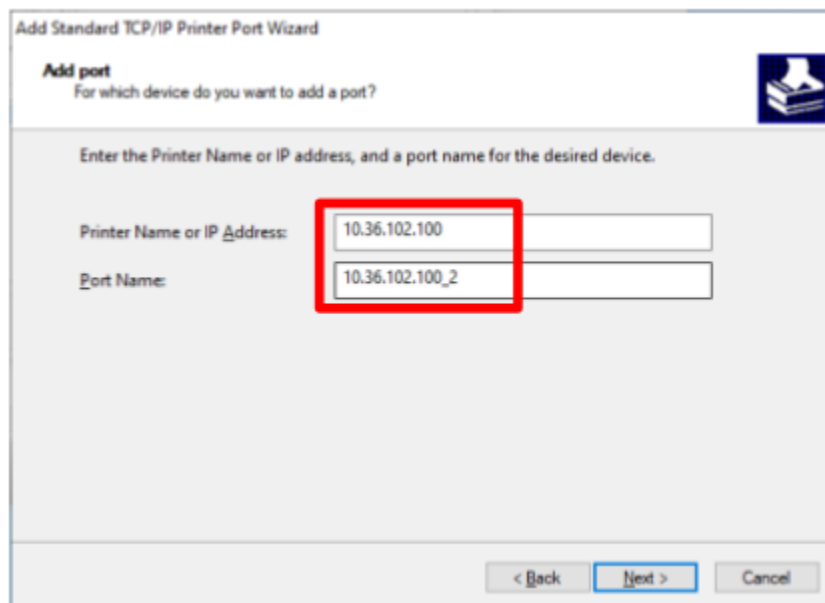
11. Select [Port] in the third tree and click [Add Port].
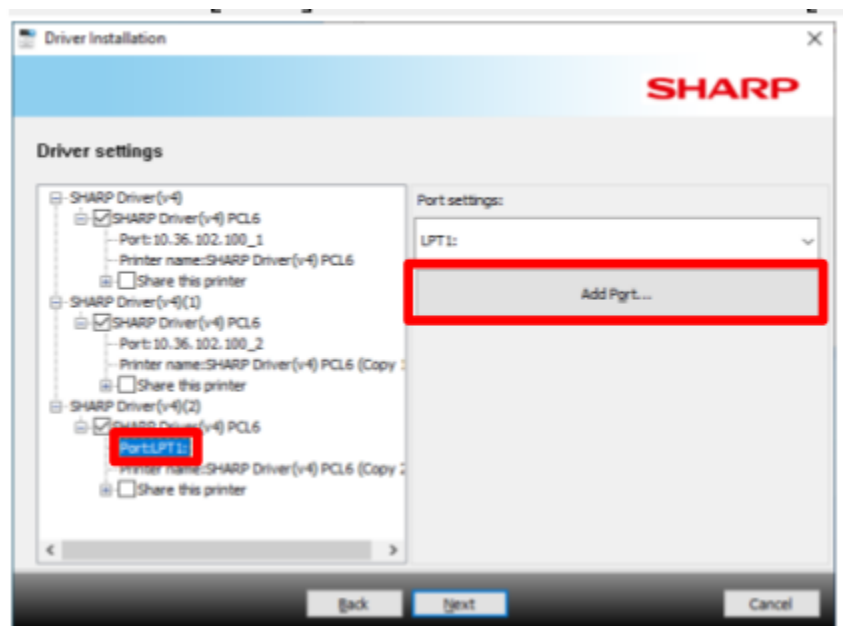
12. Select [Standard TCP/IP Port] and click [New Port].

13. Enter the IP address of the MFP-B in the [Printer name or IP Address] field, and enter a name in the [Port Name] field.

14. Select [Printer name] of each tree and enter an arbitrary name in the [Printer Name] field.

15. After #14, click [Next].

16. Check the registered value and click [Next].
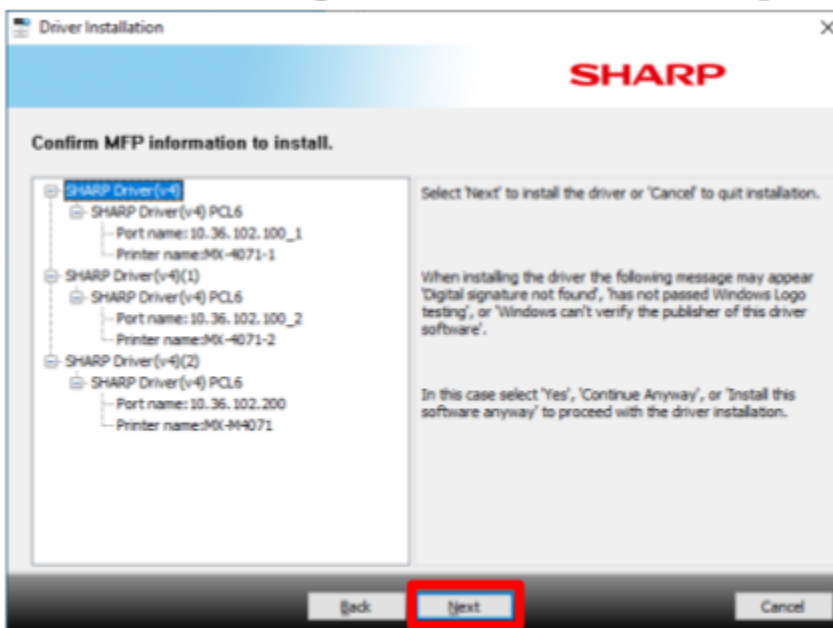
17. Installation is complete when the following screen is displayed.

Universal Print Compatible MFP

Universal Print compatible products are now in preparation. Sharp will support them beginning with new product introductions in Q4 2021 and will gradually expand the compatible models.

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