

Zebra Printer ZT411 Setup Manual

OEM Sub-Label Configuration for I-Con Software

GEN 4.3 CIM Firmware

Revision 003

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1. Purpose

This document provides step-by-step instructions for setting up a Zebra ZT411 thermal transfer printer for use with Infinitum I-con software to print OEM sub-labels. It covers hardware requirements, printer calibration, driver installation, configuration via Zebra Setup Utilities, and optional Ethernet printing configuration.

2. Hardware and Software Requirements

The following items are required before proceeding:

Item	Details
Windows Laptop	Running a supported version of Windows
Zebra Printer ZT411	Thermal transfer label printer
Zebra Windows Printer Driver	V10 (zddriver-v1062628275-certified.exe)
Zebra Setup Utilities	For Windows (zsu-1191327.exe)
I-con Software	v2.100.912.0 or later. Installer: ICon_Installer_v2.100.912.0_Customer.msi. Installed to C:\Program Files (x86)\Infinitum-Icon

3. Install I-con Software

- Run **ICon_Installer_v2.100.912.0_Customer.msi**
- Follow the on-screen installation instructions. Upon completion, **MotorControl.Engineer.exe** will be installed to **C:\Program Files (x86)\Infinitum-Icon**

4. Calibrate the Zebra ZT411 Printer

Calibrate the printer before configuring software settings. Perform the following steps on the printer itself:

- Press and hold **Pause** and **Cancel** simultaneously — the Pause light will flash to confirm calibration mode is active
- Adjust the media sensor to align with the label gap
- Navigate through the printer menu and configure the following settings:
 - **Print Mode:** Thermal Transfer
 - **Media Type:** Gap/Notch
 - **Print Width:** 2 inches (203 dpi → dot width 406, tear-off)
- Press **Feed** to advance a label and verify calibration is correct

5. Install Zebra Windows Printer Driver

- Download the Zebra Windows Printer Driver V10 from the Zebra support website
- Run **zddriver-v1062628275-certified.exe** and follow the on-screen instructions
- When prompted for port selection, choose the USB port
- Click **Finish** when installation is complete

6. Install and Configure Zebra Setup Utilities

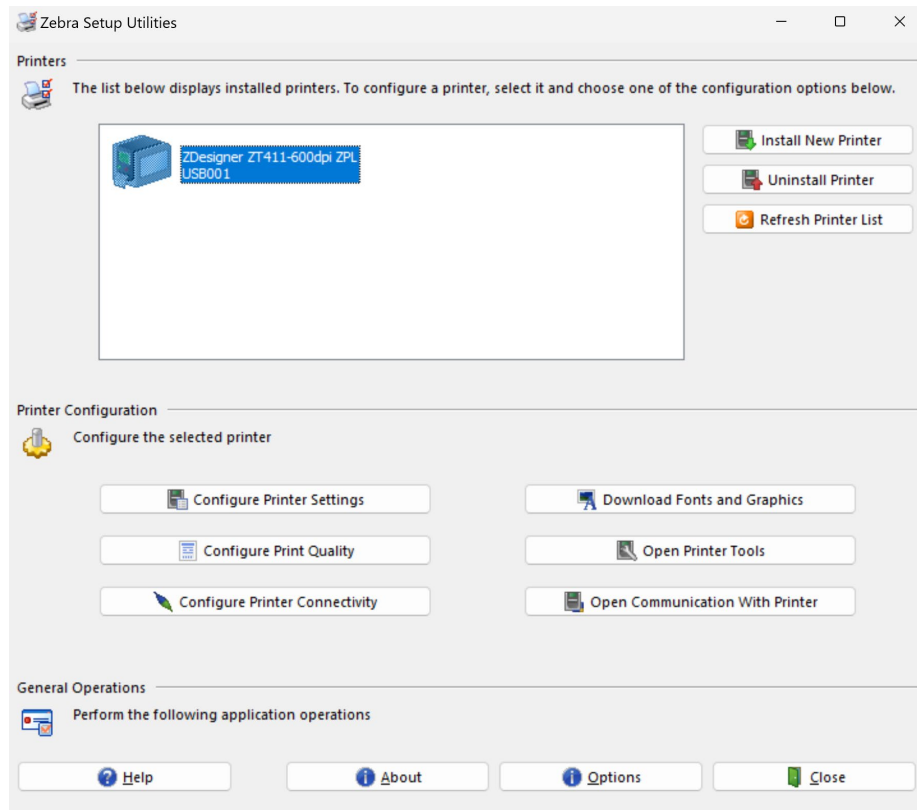
6.1 Installation

- Download Zebra Setup Utilities from the Zebra support website
- Run **zsu-1191327.exe** and follow the on-screen instructions for the ZT411

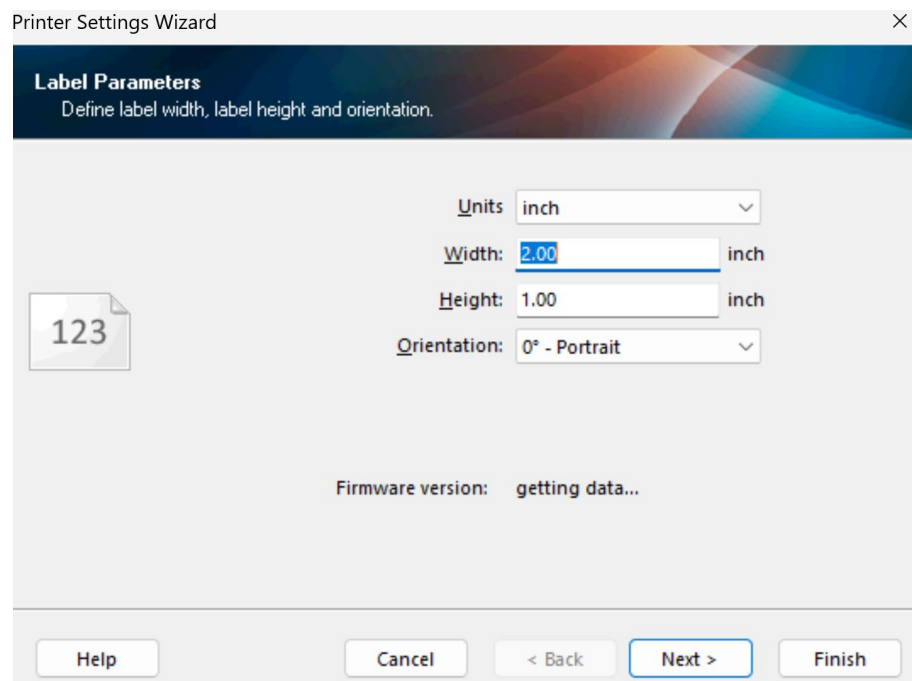
6.2 Configure Printer Settings

Important: Ensure the ZT411 is powered on and connected via USB before opening Zebra Setup Utilities.

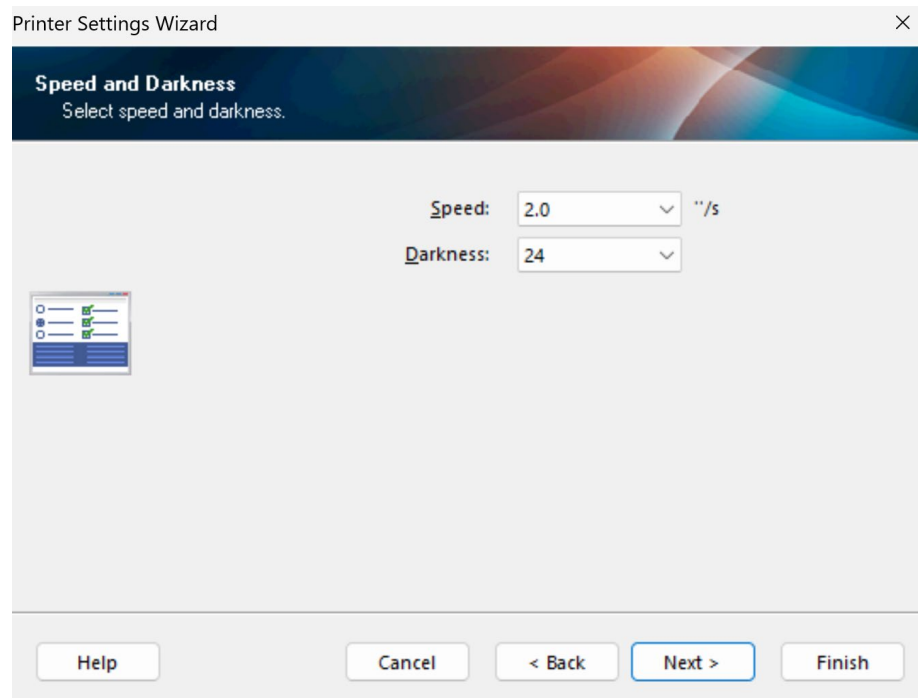
- Open Zebra Setup Utilities
- Select **ZDesigner ZT411** from the printer list, then select **Configure Printer Settings**



- Set **Width** to **2.00"** and **Height** to **1.00"**, then click Next



- Set **Print Speed** to **2.0 in/s** and **Darkness** to **24–28** (adjust based on print quality for your specific unit)



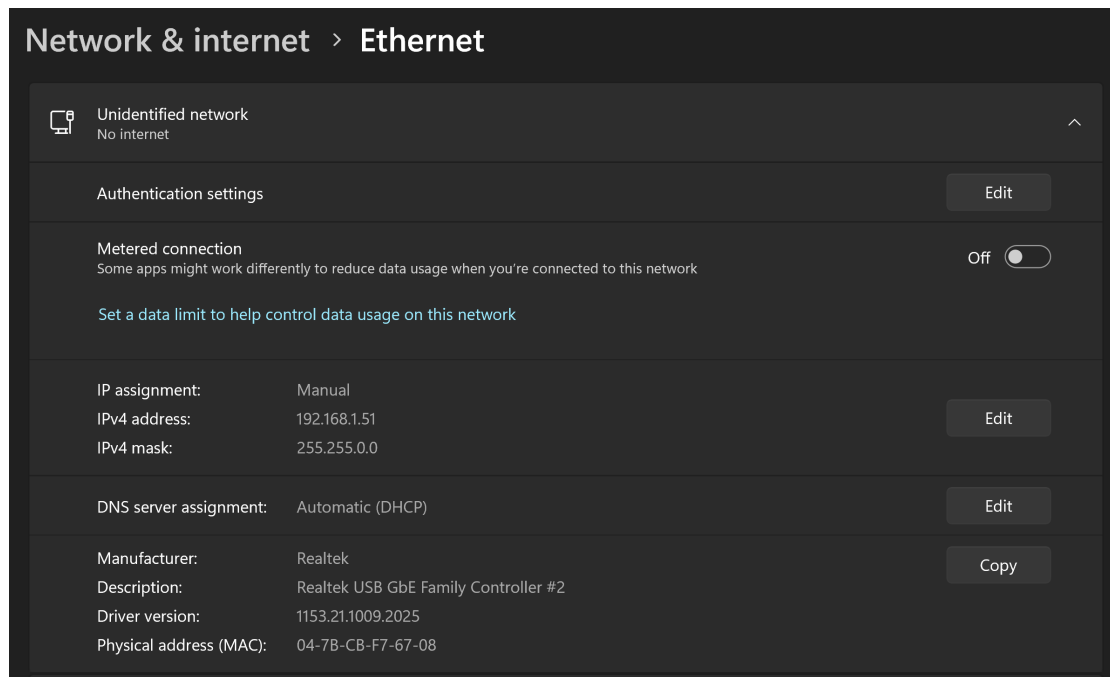
- Click **Finish**, then close Zebra Setup Utilities. The printer is now configured for USB printing.

7. Ethernet (Network) Printing Setup

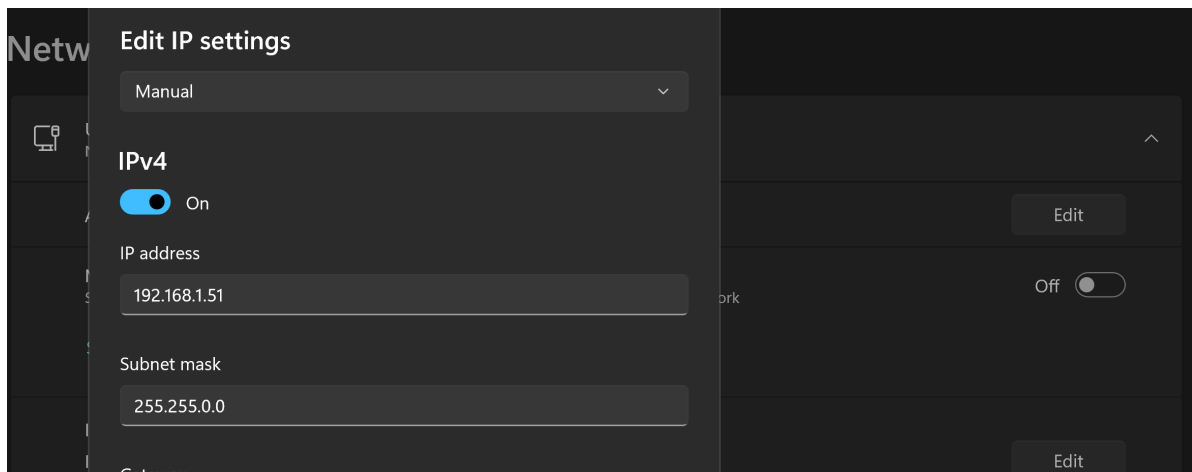
Note: This section is only required for Ethernet printing. For USB-only printing, skip to Section 8. Sections 5 and 6 must be completed first.

7.1 Connect and Assign Printer IP Address

- Connect the ZT411 to the network router via an Ethernet cable and verify the network indicator light on the printer is green
- On the laptop, navigate to **Ethernet Settings** → select the Unidentified Network (connected printer) → **Edit IP Settings**

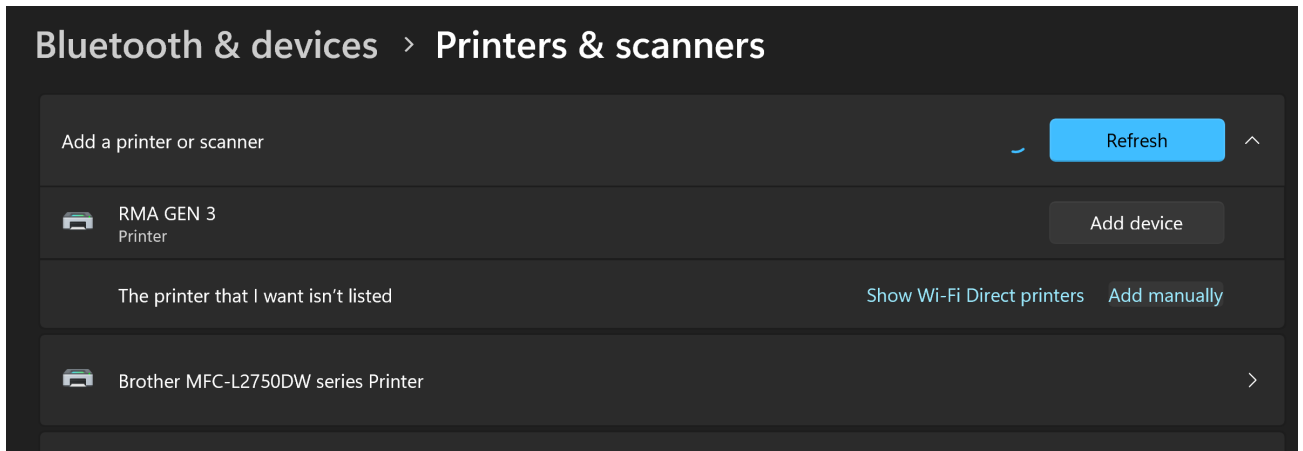


- Select **Manual**, set IP Address to **192.168.1.51** and Subnet Mask to **255.255.0.0**, then click **Save**

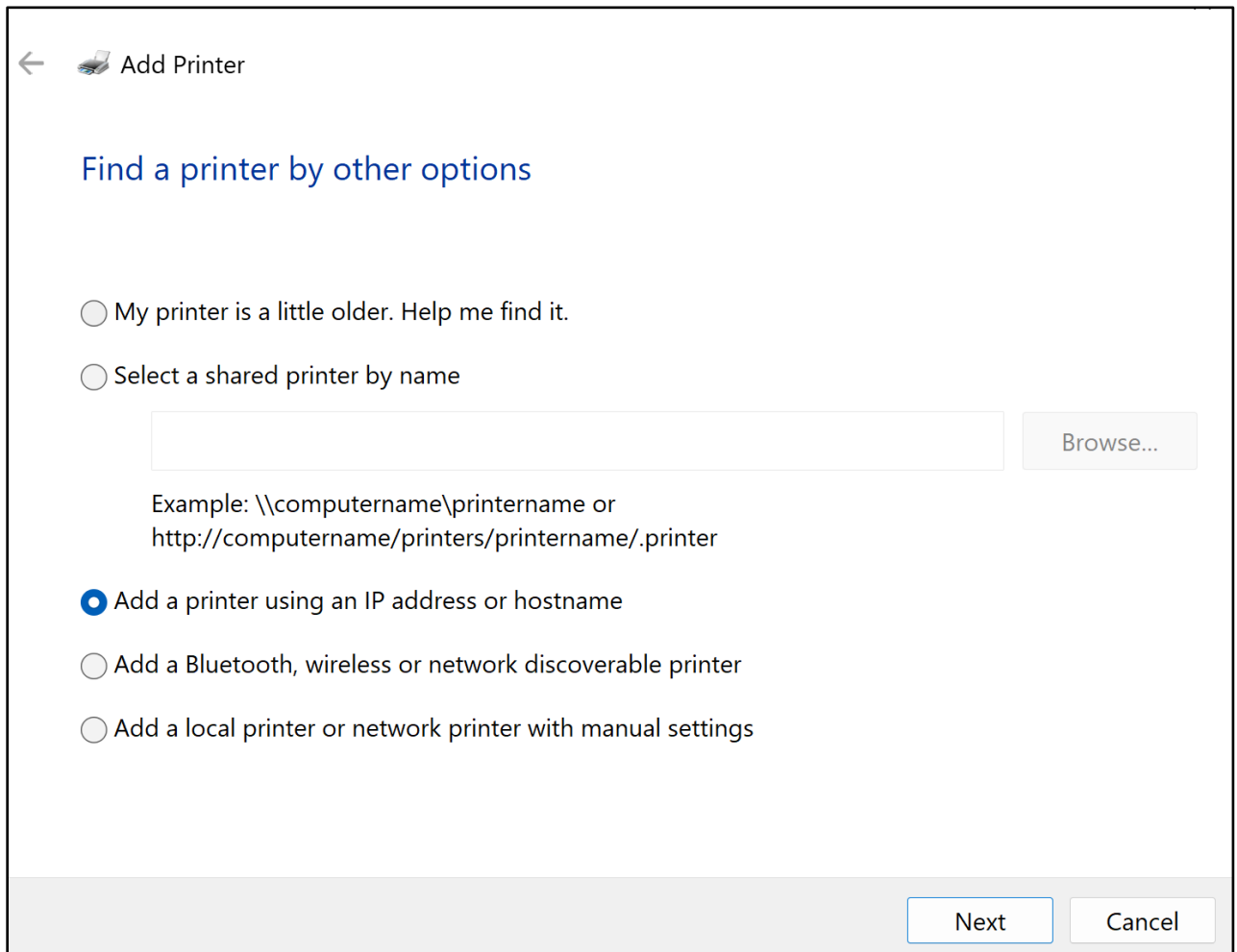


7.2 Add Printer via IP Address

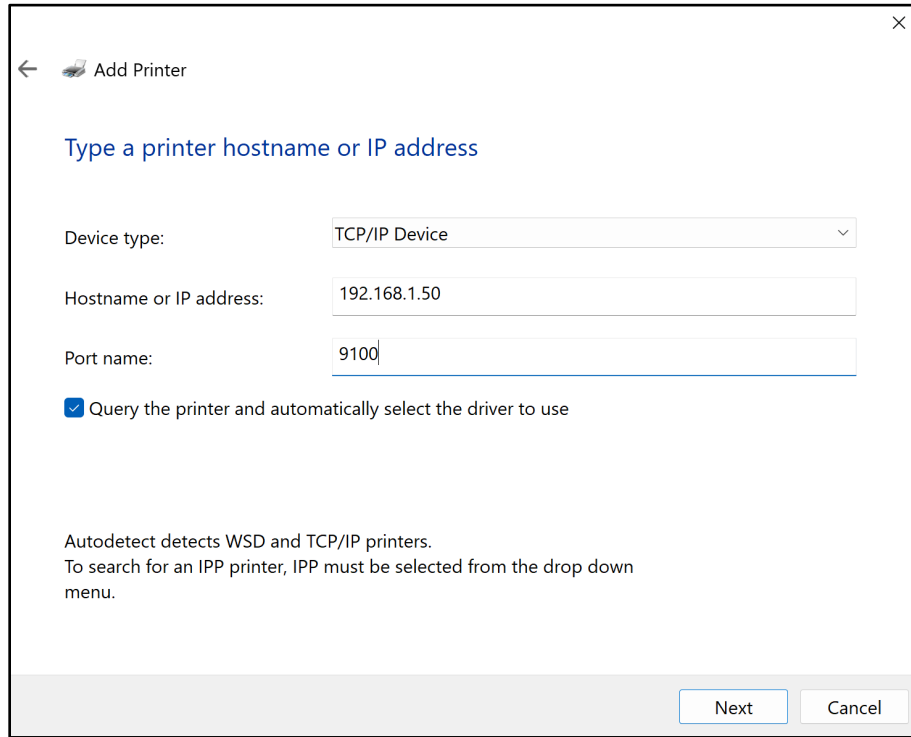
- Navigate to **Printers and Scanners** → **Add a device** → **Add Manually**



- Select **Add a Printer using an IP address or hostname**, then click Next



- Set Device Type to **TCP/IP Device**, Hostname/IP to **192.168.1.50**, Port Name to **9100**, then click Next



← Add Printer

Type a printer hostname or IP address

Device type: TCP/IP Device

Hostname or IP address: 192.168.1.50

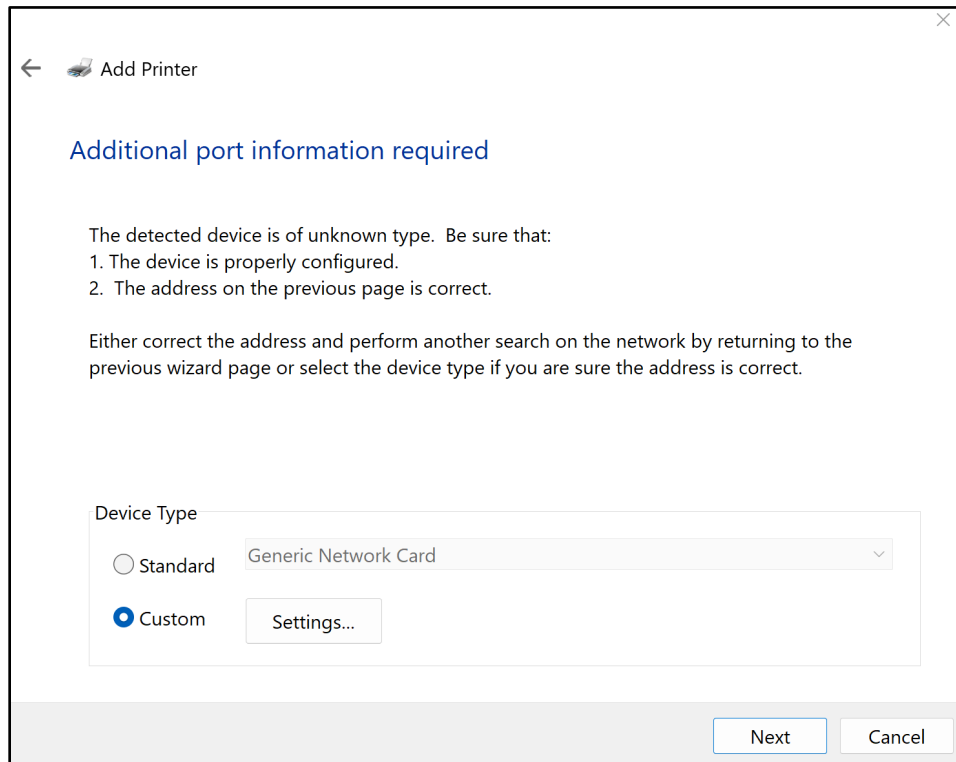
Port name: 9100

☒ Query the printer and automatically select the driver to use

Autodetect detects WSD and TCP/IP printers.
To search for an IPP printer, IPP must be selected from the drop down menu.

Next Cancel

- Select **Custom**, then click Next



← Add Printer

Additional port information required

The detected device is of unknown type. Be sure that:

1. The device is properly configured.
2. The address on the previous page is correct.

Either correct the address and perform another search on the network by returning to the previous wizard page or select the device type if you are sure the address is correct.

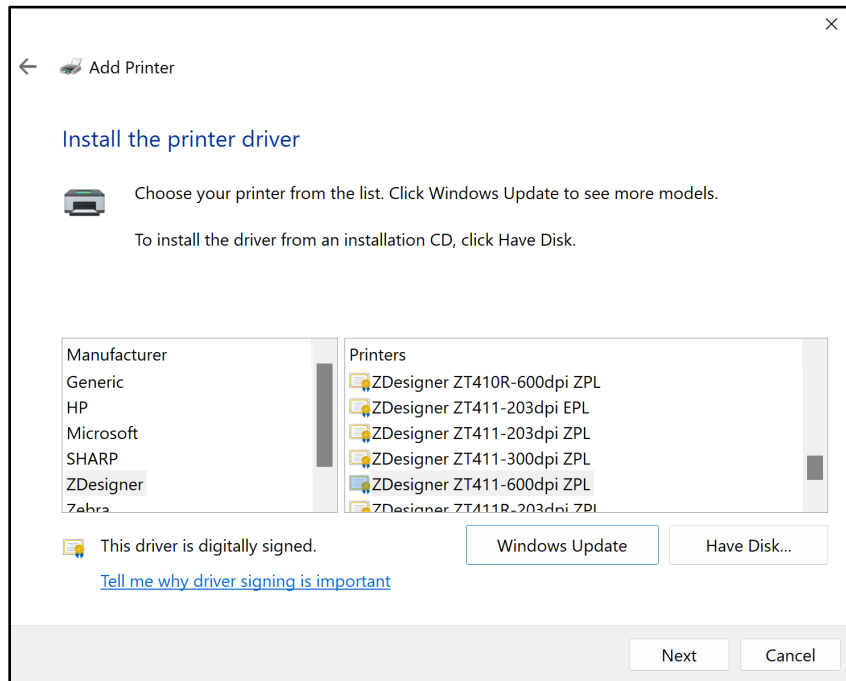
Device Type

☐ Standard Generic Network Card

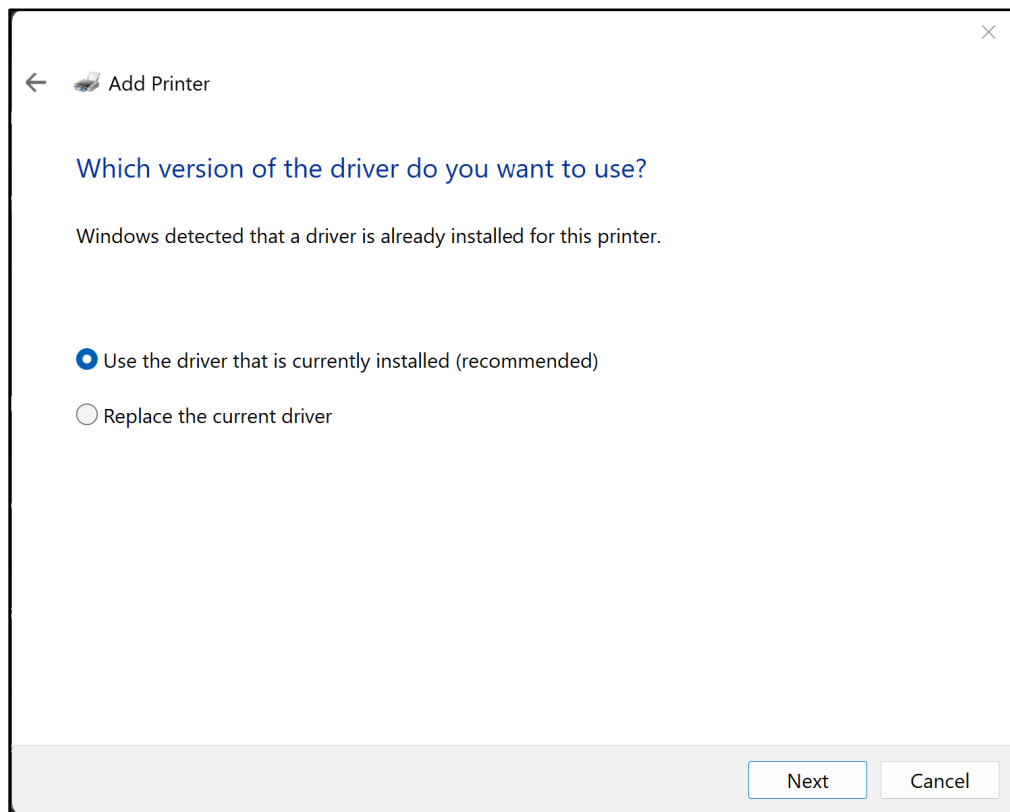
☒ Custom Settings...

Next Cancel

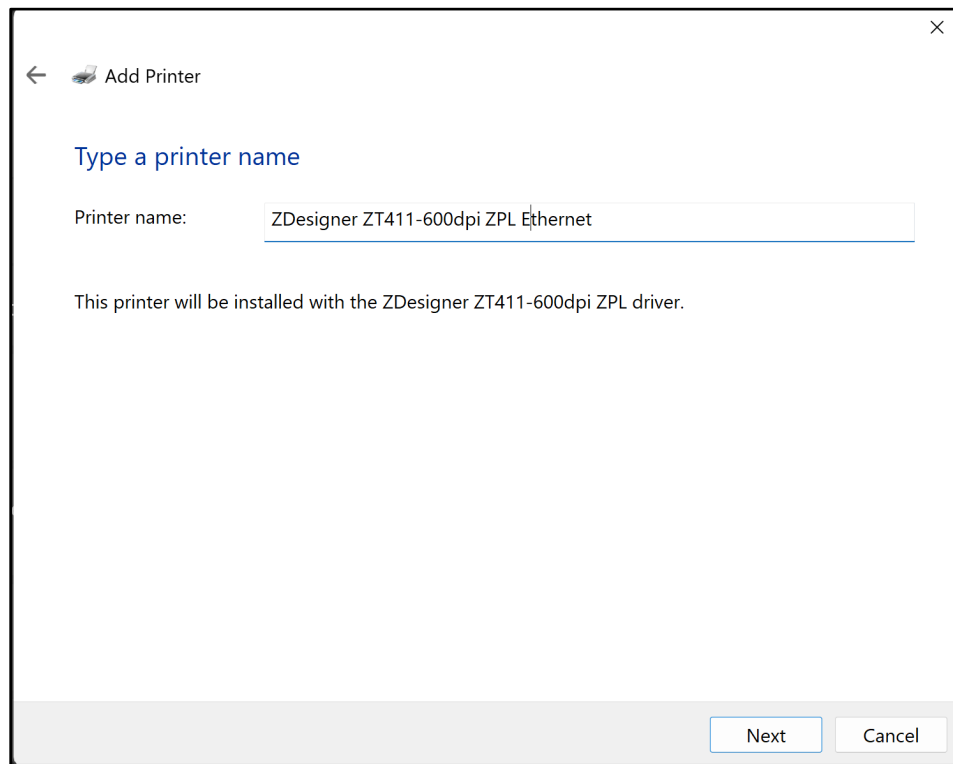
- Select **ZDesigner** → **ZDesigner ZT411-600dpi ZPL**, then click Next



- Select **Use the driver that is currently installed** (installed in Section 5), then click Next



- Enter printer name: **ZDesigner ZT411-600dpi ZPL Ethernet** → select **Do not share this printer**



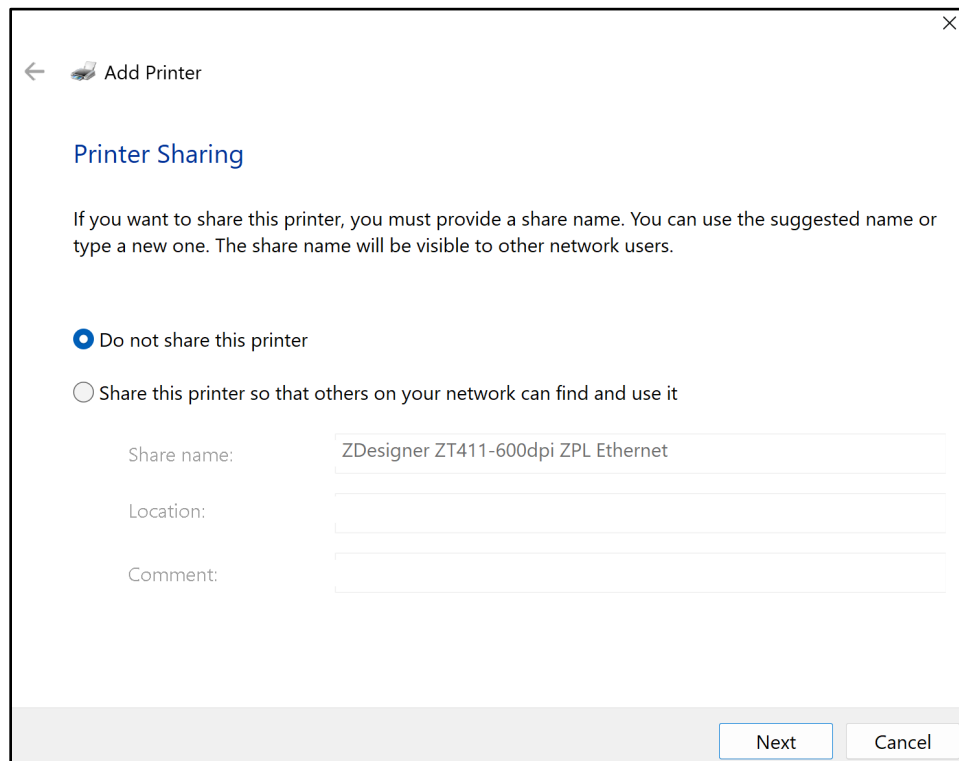
← Add Printer

Type a printer name

Printer name: ZDesigner ZT411-600dpi ZPL Ethernet

This printer will be installed with the ZDesigner ZT411-600dpi ZPL driver.

Next Cancel



← Add Printer

Printer Sharing

If you want to share this printer, you must provide a share name. You can use the suggested name or type a new one. The share name will be visible to other network users.

☒ Do not share this printer

☐ Share this printer so that others on your network can find and use it

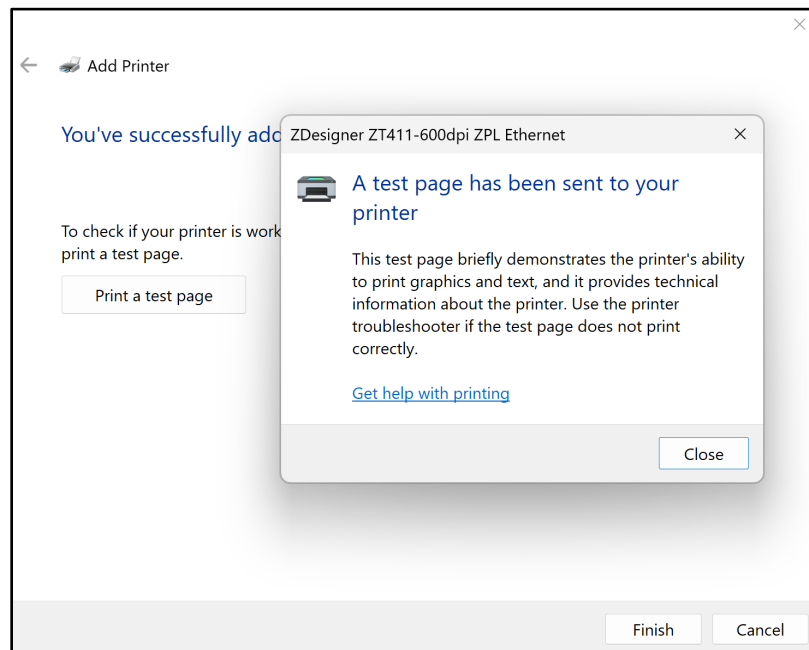
Share name: ZDesigner ZT411-600dpi ZPL Ethernet

Location:

Comment:

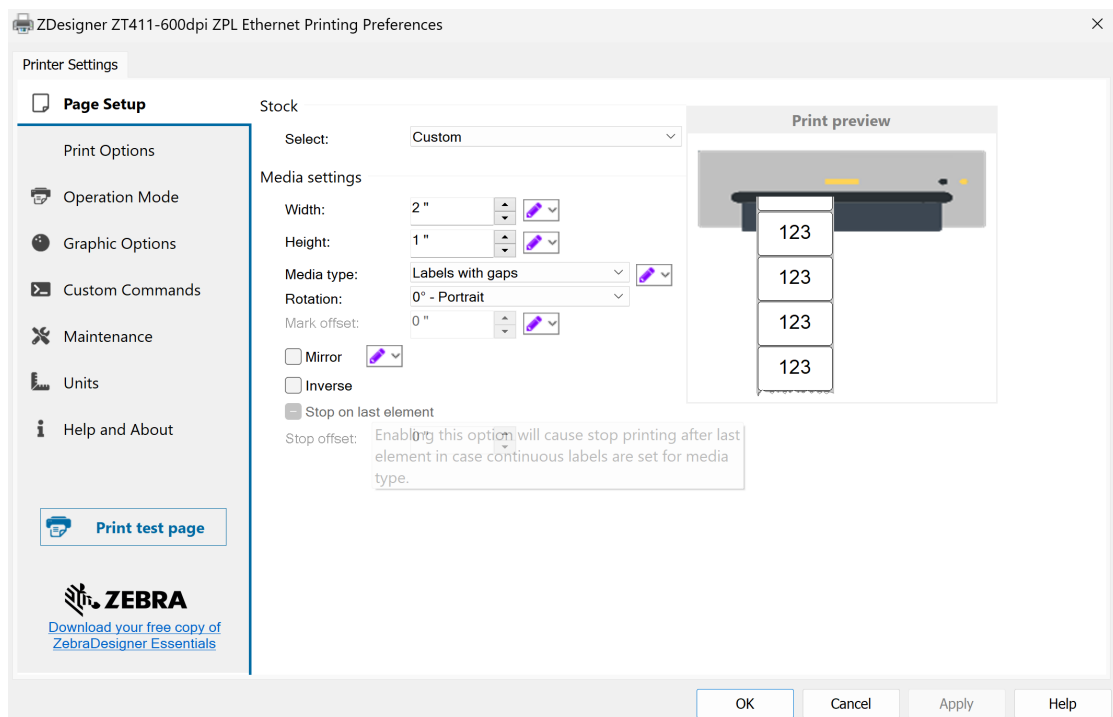
Next Cancel

- Select **Print a Test Page**, verify the printer produces output, then click Finish

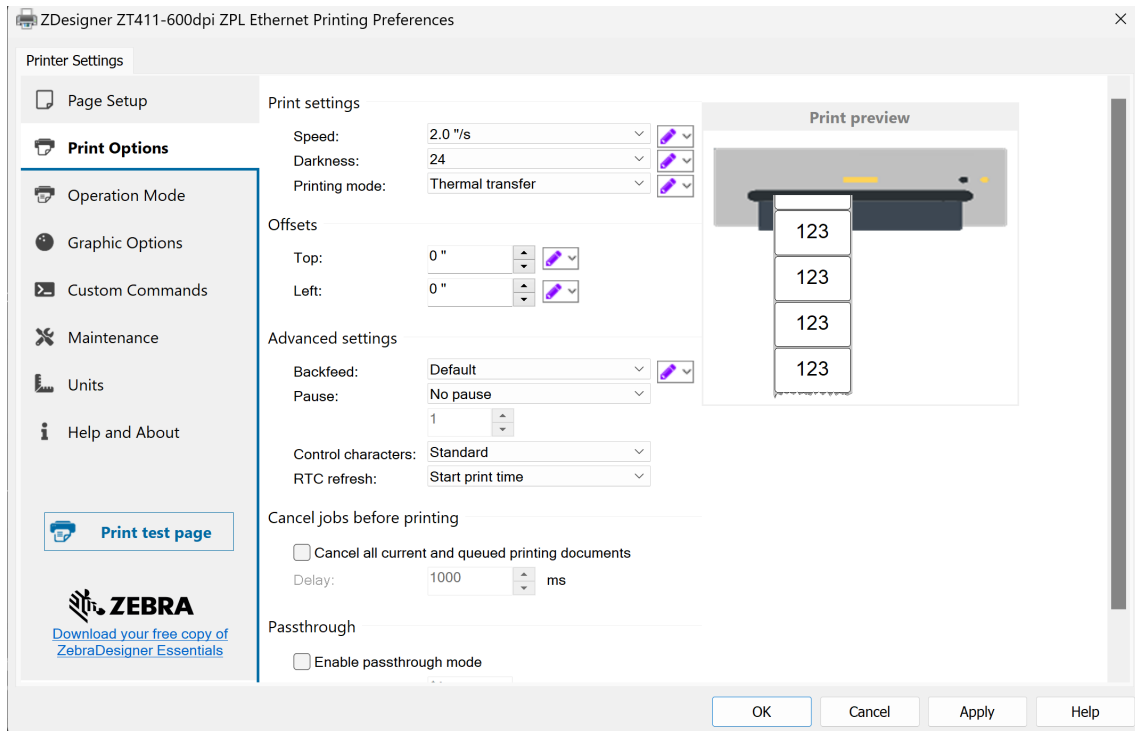


7.3 Configure Ethernet Printer Preferences

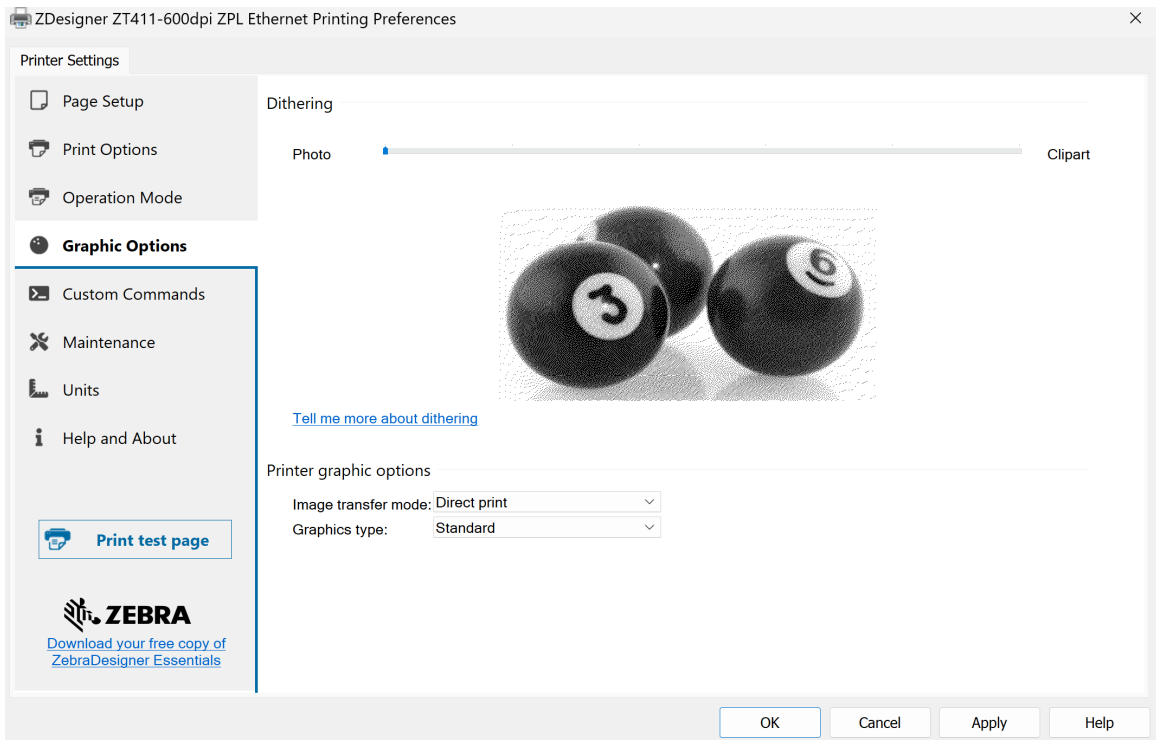
- Go to **Printers and Scanners** → select **ZDesigner ZT411-600dpi ZPL Ethernet** → **Printer Preferences**
- Go to **Page Setup** → set Width to **2"** and Height to **1"**



- Under **Print Options**, set Speed to **2.0 in/s** and Darkness to **24–26**



- Under **Graphic Options** → **Image Transfer Mode**, select **Direct Print**



- Click **Apply**, then **OK** to exit Printer Preferences

8. Printing Labels from I-con

8.1 USB Printing

- Open **I-con v2.100.912.0 or later**
- Validate a duty point, enter a serial number, and generate a label
- Select **USB** as the connection method, print the label, and verify the output is correct



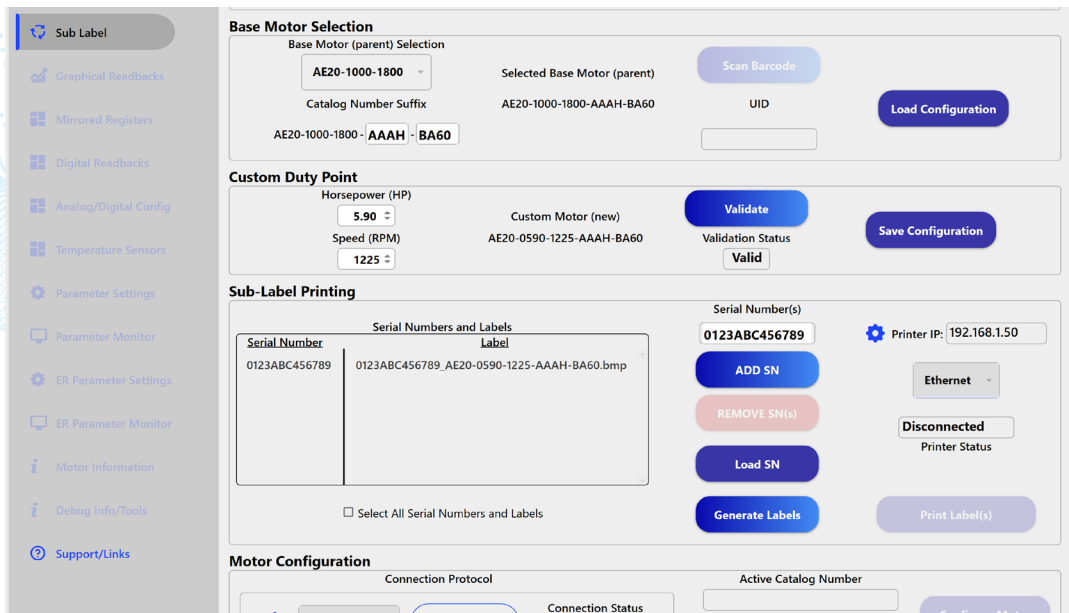
The screenshot shows the 'Sub Label' configuration page in the I-con software. The left sidebar contains navigation options: Graphical Readbacks, Mirrored Registers, Digital Readbacks, Analog/Digital Config, Temperature Sensors, Parameter Settings, Parameter Monitor, ER Parameter Settings, ER Parameter Monitor, Motor Information, Debug Info/Tools, and Support/Links. The main content area is divided into several sections:

- Base Motor Selection:** Includes 'Base Motor (parent) Selection' with a dropdown set to 'AE20-1000-1800', 'Selected Base Motor (parent)' set to 'AE20-1000-1800-AAAAH-BA60', 'Catalog Number Suffix' set to 'AE20-1000-1800-AAAAH-BA60', and a 'Scan Barcode' button.
- Custom Duty Point:** Includes 'Horsepower (HP)' set to '5.90', 'Speed (RPM)' set to '1225', 'Custom Motor (new)' set to 'AE20-0590-1225-AAAAH-BA60', and buttons for 'Validate', 'Valid', and 'Save Configuration'.
- Sub-Label Printing:** Includes a table for 'Serial Numbers and Labels' with columns 'Serial Number' and 'Label'. The 'Serial Number' column contains '0123ABC456789' and the 'Label' column contains '0123ABC456789_AE20-0590-1225-AAAAH-BA60.bmp'. Below the table is a checkbox 'Select All Serial Numbers and Labels'. To the right are buttons for 'ADD SN', 'REMOVE SN(s)', 'Load SN', and 'Generate Labels'. A 'Serial Number(s)' field contains '0123ABC456789'.
- Motor Configuration:** Includes 'Connection Protocol', 'Connection Status', and 'Active Catalog Number' fields.

On the right side of the 'Sub-Label Printing' section, there is a 'USB' dropdown menu, a 'Disconnected' printer status indicator, and a 'Print Label(s)' button.

8.2 Ethernet Printing

- Open **I-con v2.100.912.0 or later**
- Validate a duty point, enter a serial number, and generate a label
- Select **Ethernet** and enter Printer IP **192.168.1.50**



The screenshot shows the 'Sub Label' configuration page in the I-con software, similar to the previous one, but with the 'Ethernet' connection method selected. The 'Sub-Label Printing' section is identical to the previous screenshot. However, the 'Printer IP' field is now set to '192.168.1.50', and the 'Ethernet' dropdown menu is selected. The 'Disconnected' printer status indicator remains.

- I-con will automatically connect if the printer is reachable. Once connected, print a label and verify the output is correct

9. Quick Reference — Key Settings Summary

Parameter	Value
Label Width	2.00"
Label Height	1.00"
Print Speed	2.0 in/s
Darkness (USB setup)	24–28 (printer-dependent)
Darkness (Ethernet preferences)	24–26
Laptop Static IP	192.168.1.51
Printer IP (Ethernet)	192.168.1.50
Subnet Mask	255.255.0.0
Ethernet Port	9100
Image Transfer Mode	Direct Print