

# PLC Lab

# Communications Setup

## Lab Objectives

In this lab you will learn the following:

- Opening a new project in the Do-more-Designer
- Establishing a communication link between the PC and the PLC using the USB and Ethernet.

## Lab Duration

10 – 15 minutes

## Lab Procedure

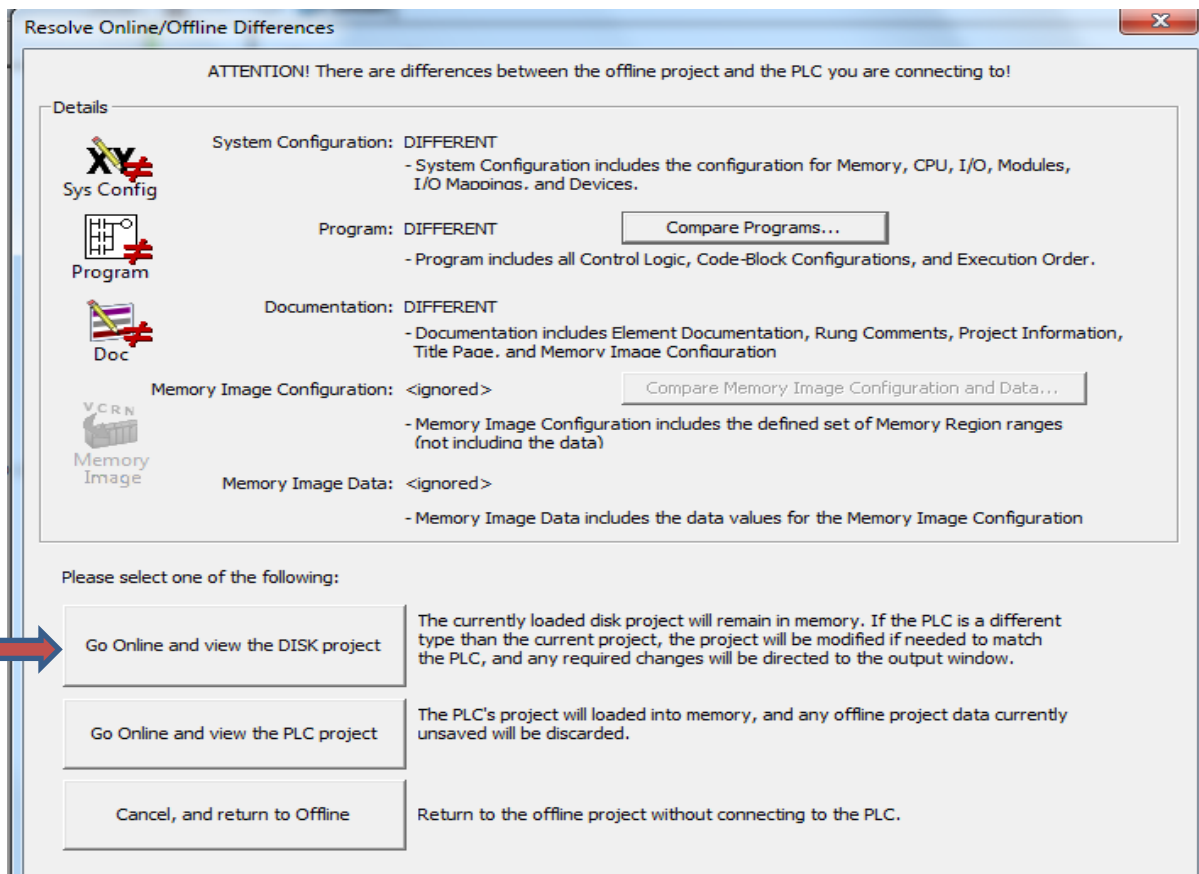
The purpose of this lab is to establish an Ethernet link between the PC and PLC in order to run the HMI program. To do this we must first establish a connection between the PC and PLC through the USB.

### Establishing a Link between the PLC and the PC Using USB:

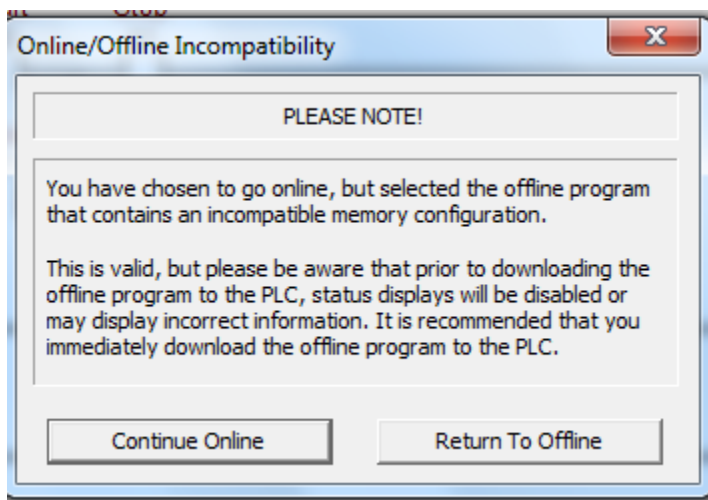
1. Connect the USB cable to the PC.
2. Open the Do-more Designer program
3. Click on the **USB Icon** and click **Open**. A dialog box will appear.



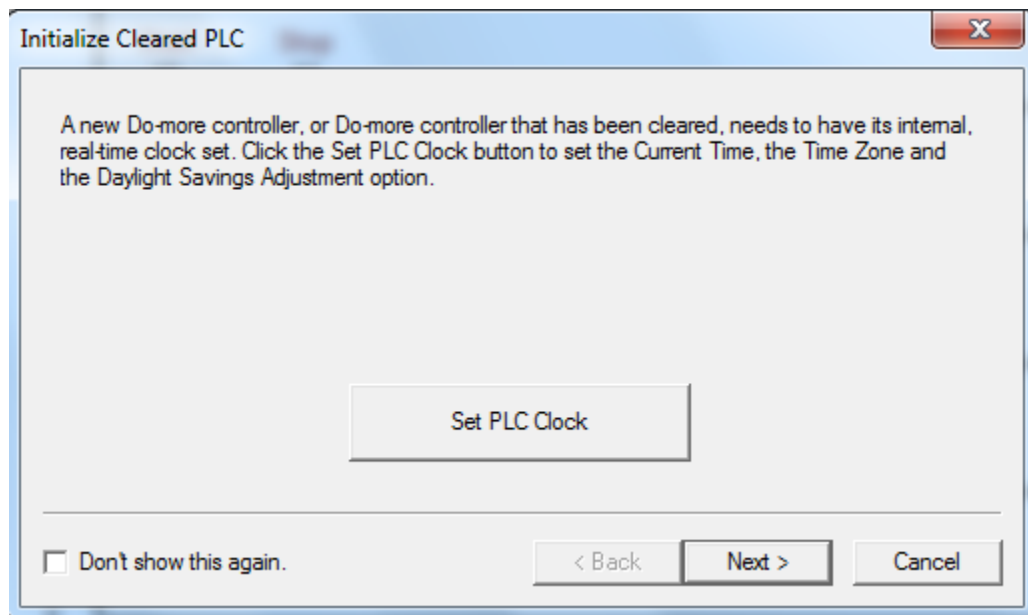
- Click on the **Go Online and View the Disk Project** shown below.



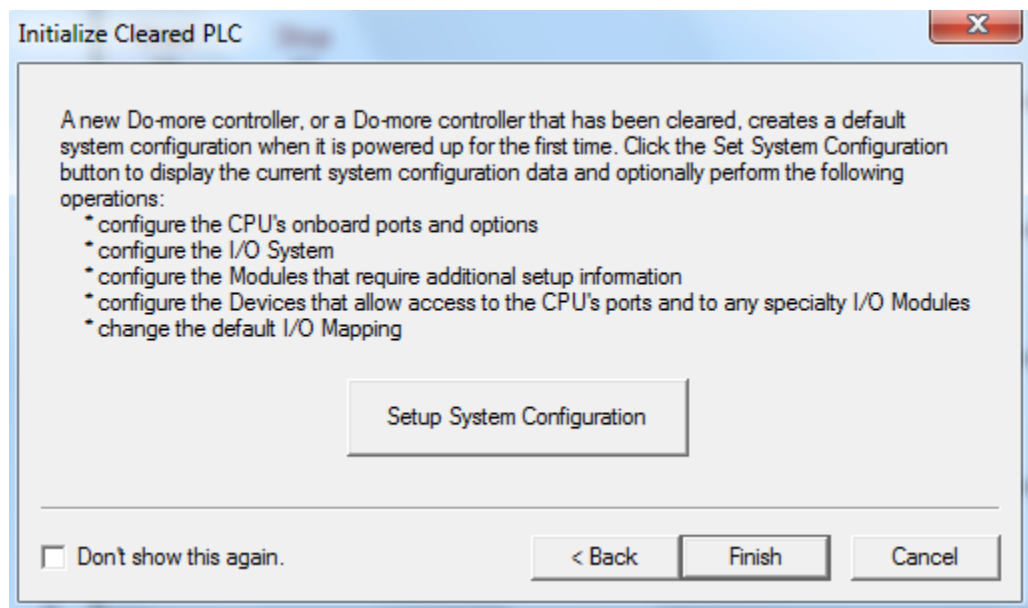
- Select **Continue Online** when the following window appears.



- Select **Next** when the window below appears.



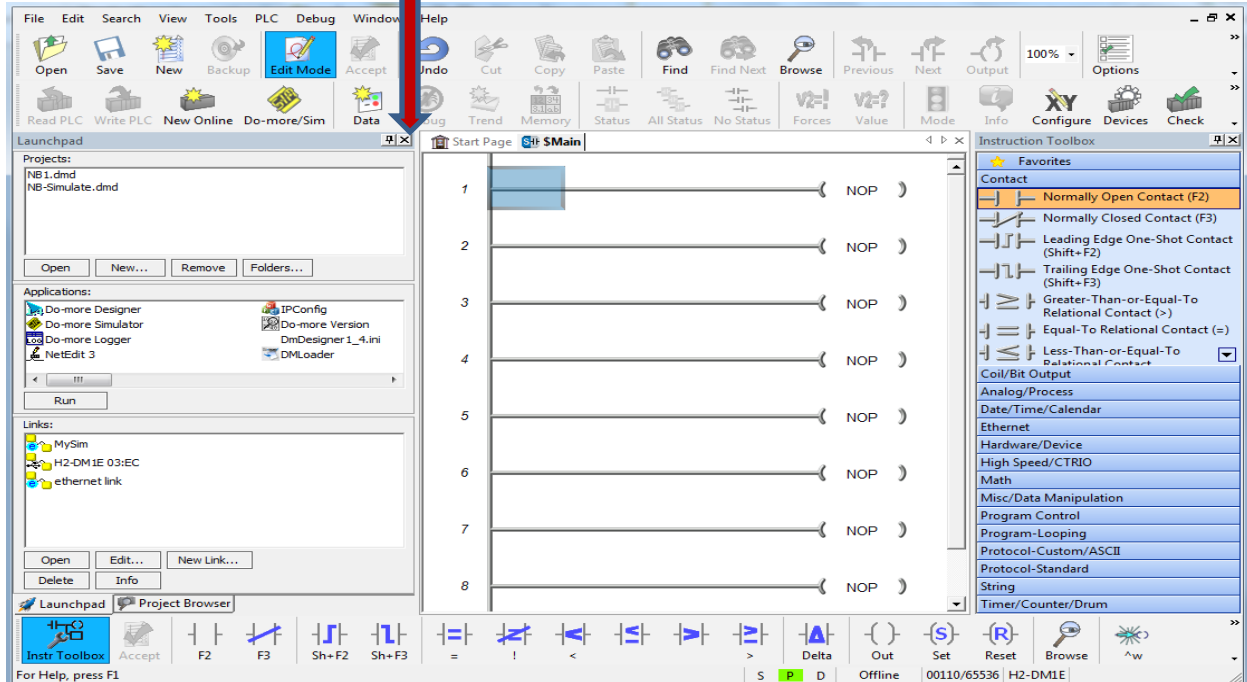
7. Click **Finish** in the window below.



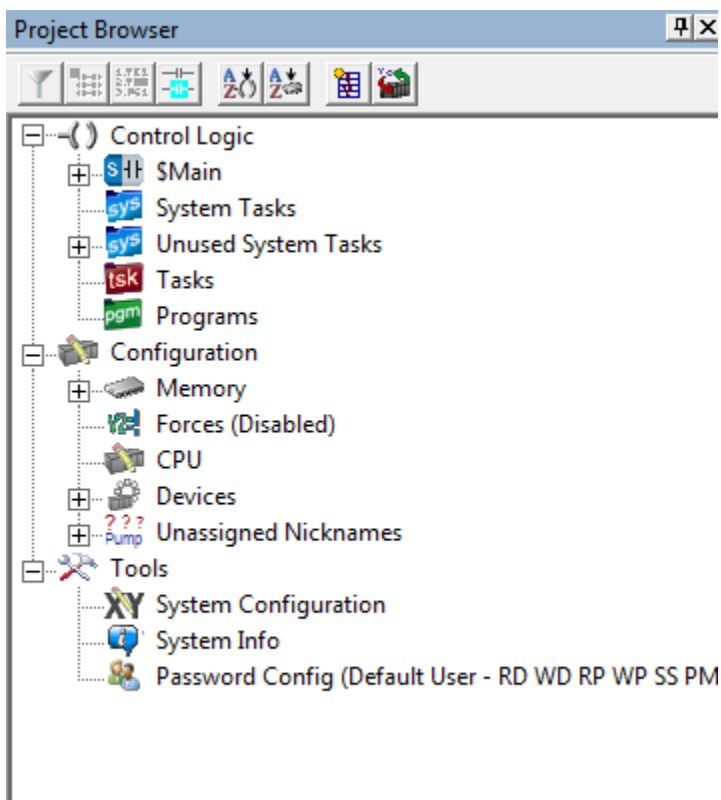
### **Establishing an Ethernet Link between the PLC and the PC:**

1. Close the **Launchpad** window shown below. If it is not available, click on the **PLC/System Configuration** from the menu.P

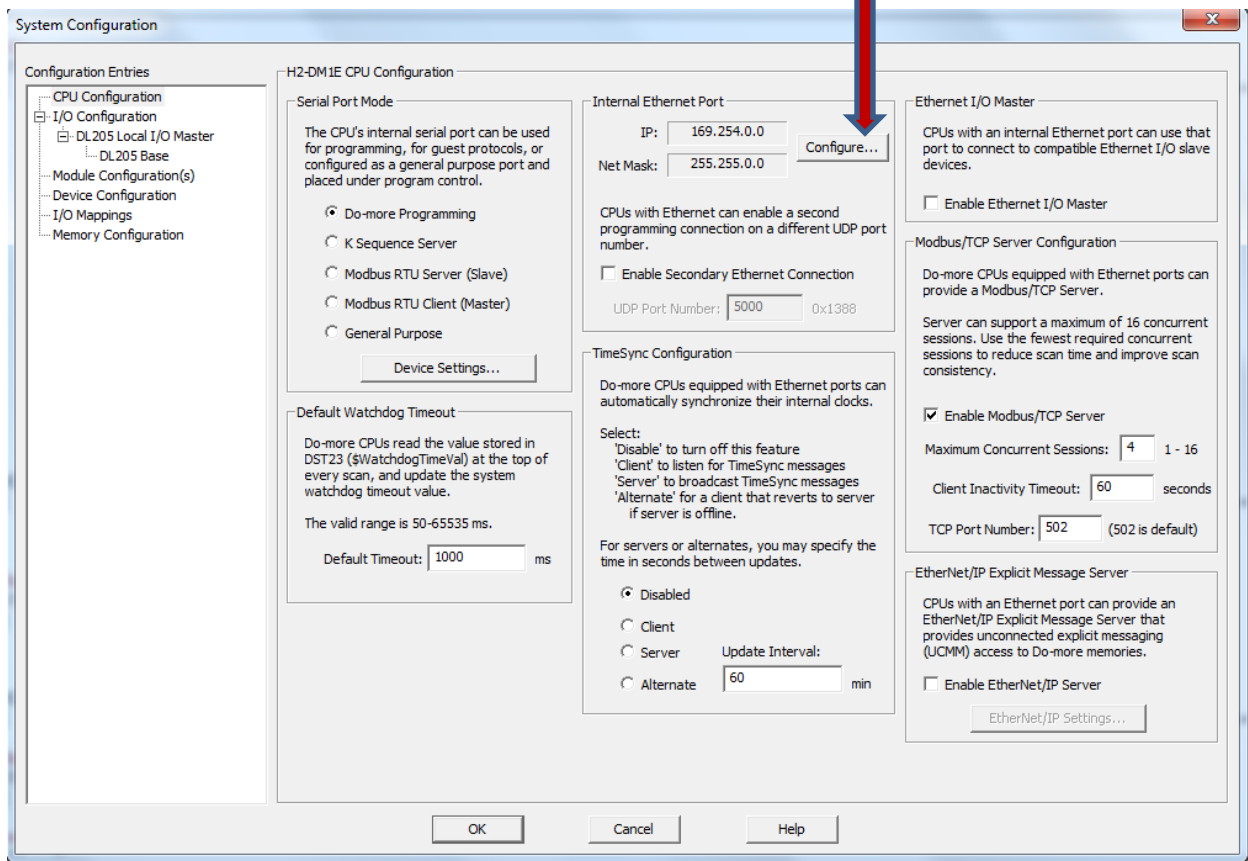
To Close  
Launchpad



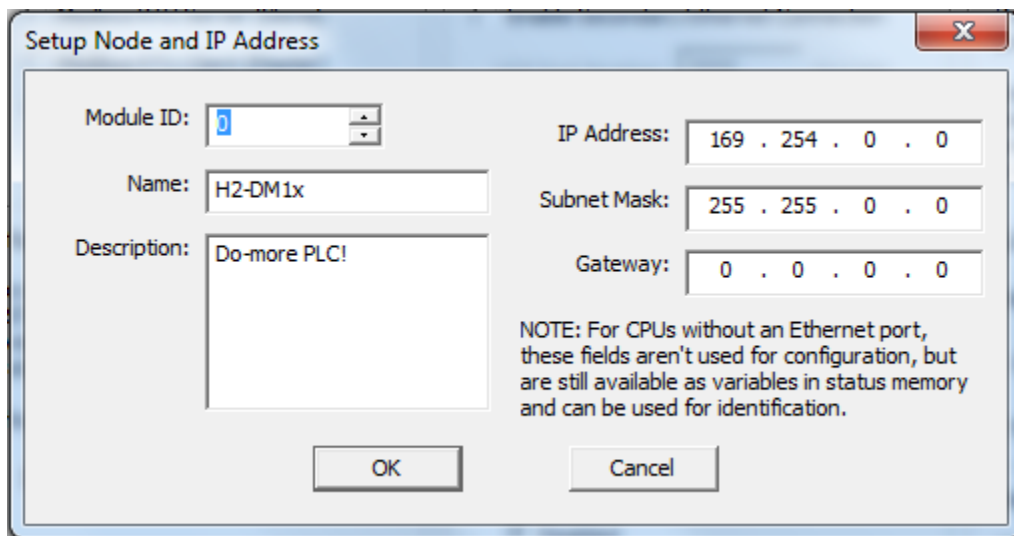
2. In the window below, double click on the **System Configuration**.



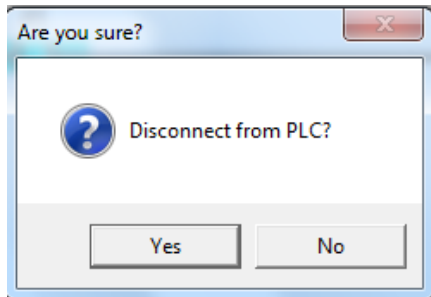
3. When the window below appears, copy the numbers associated with the **IP** address and the **Net Mask**, then click on **Configure**.



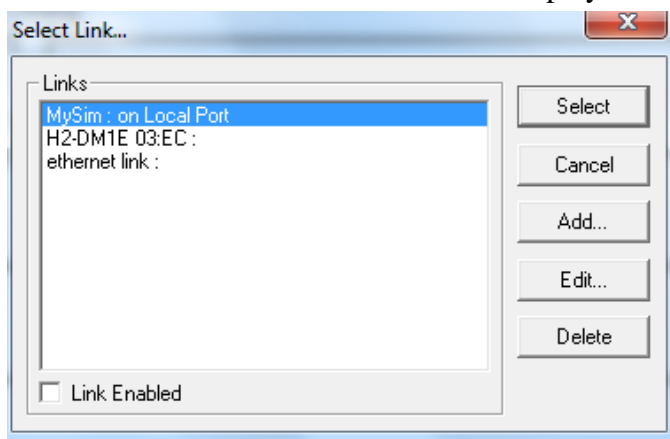
4. Make sure that the numbers that appear in the window below match the ones you wrote otherwise change them accordingly. Then click **OK** on both windows on the screen.



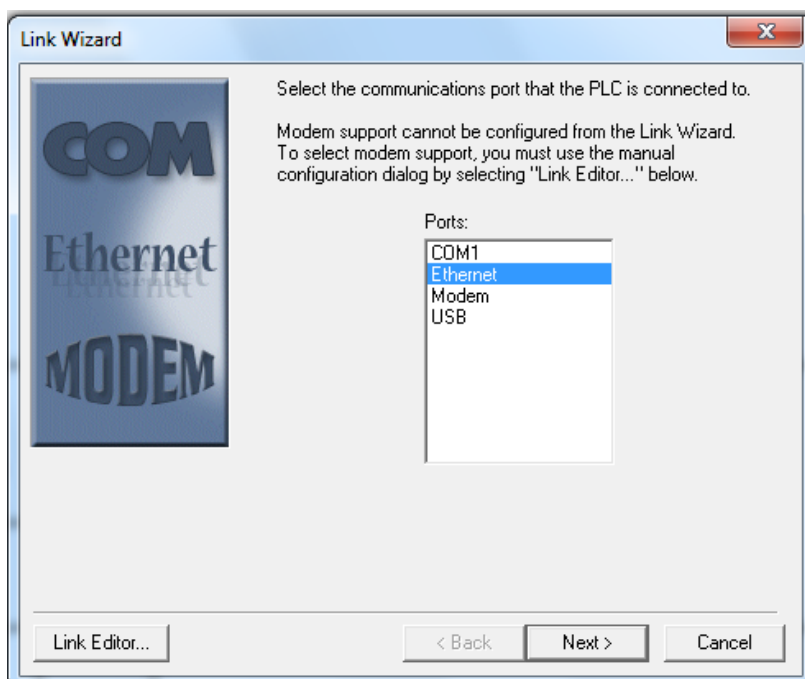
5. Select the **PLC/Disconnect** from the menu, the following window will appear, click **OK**.



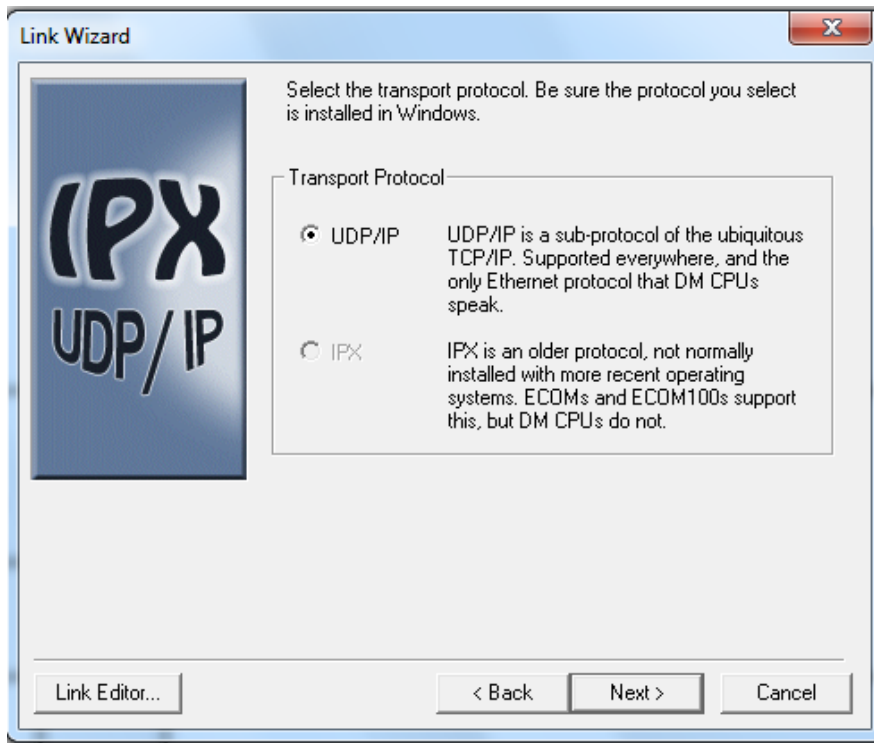
6. Click **PLC/Connect** and in the displayed window and click **Add**.



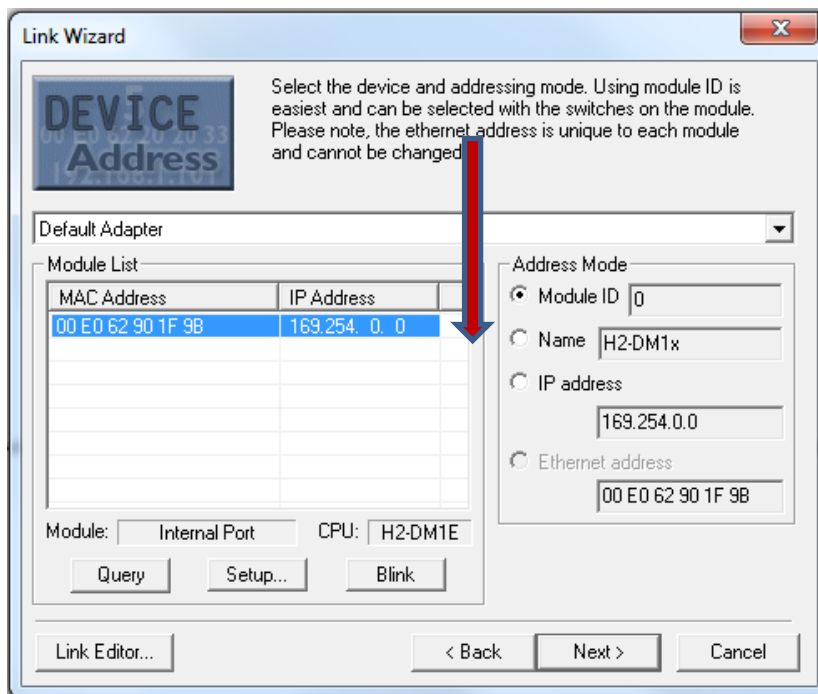
7. Select **Ethernet** in the window below and click **Next**.



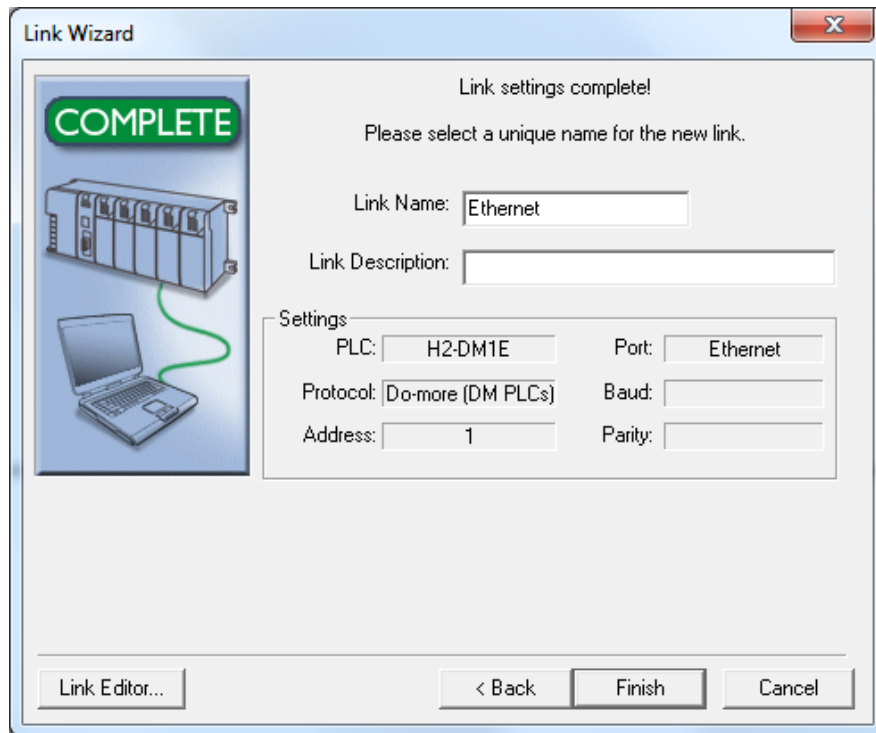
8. In the window below, select **UDP/IP** and click **Next**.



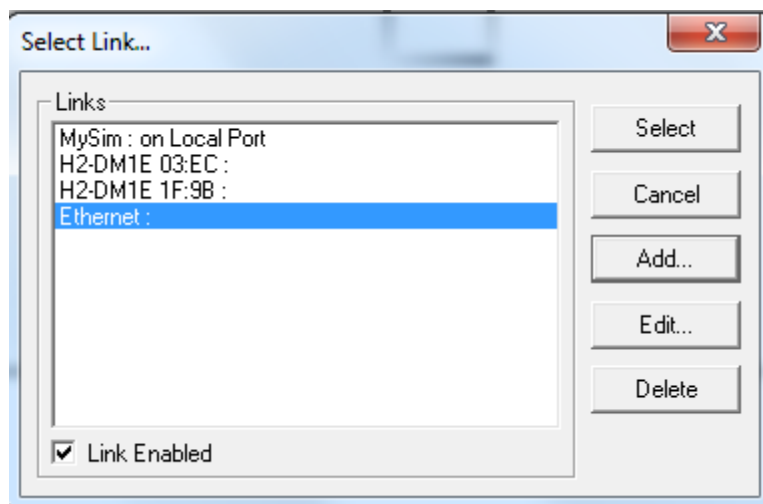
9. Click on the numbers below the **IP address**, they will be automatically copied to the right side of the window below, then click **Next**.



10. In the window below, type any name (e.g Ethernet) in the **Link Name** and click **Finish**.

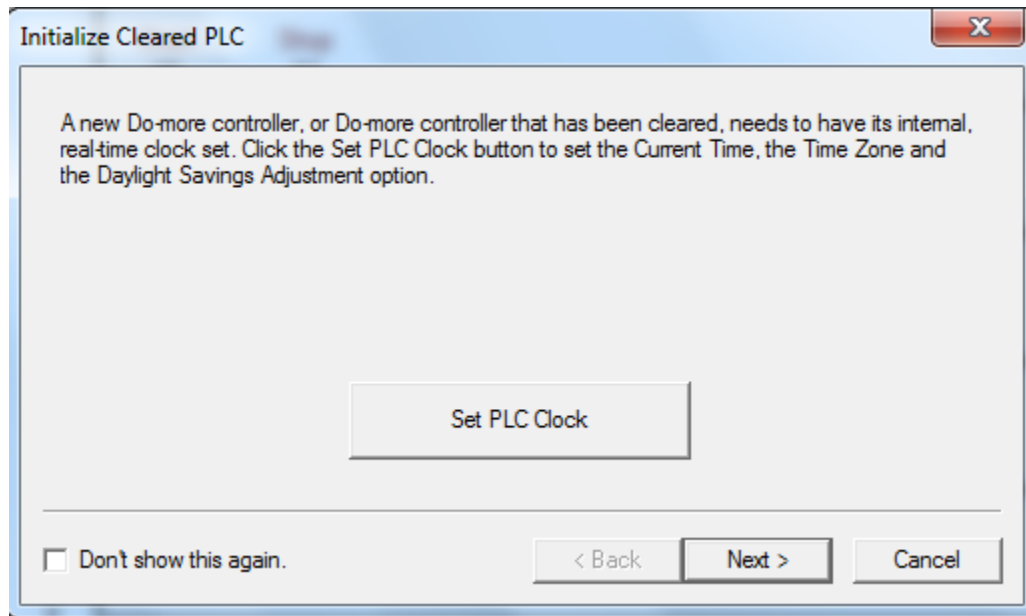


11. In the **Select Link** of the window below, click on the **Ethernet Links** if not highlighted and then click **Select**.





12. Click **Next** in the window below.



13. Click **Finish** in the window below to complete the Ethernet communication between the PC and PLC.

