# **How-to Configure PLC Ethernet Communications**

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### Contents:

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### References

- Ethernet Device Network Settings for LCLS Subnets
- How-to Download PLC Ladder Logic
- LCLS How-to Release Software
- [How-to Recover Software from CVS]
- PLC Users at SLAC

# **DHCP: Network Settings**

The protocols used by the 1756 Model PLC's and the Touch Panels are TCP/IP. DHCP is support in both devices.

The touch panel has the following parameters:

- 1. IP
- 2. Subnet Mask
- 3. Gateway
- 4. DNS
- 5. WINS

The PLC has the same and:

- 1. Domain Name
- 2. Host Name

# Part I: Configuring IP Address for PLC using RSLINX

# Step 1: Open RSLINX

Open RSLINX and configure driver to communicate with the PLC.

Refer to How-to Download PLC Ladder Logic if you need help.

### Step 2: Open Properties Window

Expand the device tree and right-click on the Ethernet module. Then click on the Module Configuration.



### Step 3: Configure the Ethernet Port

Click on the Port Configuration tab and enter the necessary information and click OK.

File Edit View Communications So	1756-ENBT Configura	ation	-
Autobrowse Refresh P.	General Port Configuration		
Hard Sateways, Ethernet  Hard AB_DF1-1, DF1  10, 1756-L61 LOGIX5561, Lt  10, 1756-L61 LOGIX5561, Lt  10, 1756-L61 LOGIX  00, 1756-L61 LOGIX  01, 1756-0B16I/A, 1  02, 1756-IB16I/A, 1  03, 1756-OF6VI/A,  04, 1756-IF6I/A, 17  05, 1756-IF6I/A, 17  06, 1756-ENBT/A, 1  Hard AB_ETHIP-1, Ethernet	C Use DHCP to o C Use BOOTP to IP Address: Network Mask: Gateway Address: Primary Name Server: Secondary Name Server: Domain Name: Host Name: IV Auto-negotiate Current Port Speed: Current Duplex: (Changes to Port Speed Status: Network International Content of Content o	btain network configuration.      obtain network configuration.      192    168    1    200      255    255    255    0      0    0    0    0    0      0    0    0    0    0      0    0    0    0    0      0    0    0    0    0      0    0    0    0    0      port speed and duplex	02 03 04 6-IB16I 1756-OF6V 1756-IF

# Part II: Configuring IP Address for PLC using RSLogix5000.

# Step 1: Open RSLogix5000

Open RSLogix5000 and the applicable ladder logic file. Then go online with the PLC.

Refer to How-to Download PLC Ladder Logic if you need help.

# Step 2: Open the Properties Window

Right-click on the Ethernet module and click on Properties.



### Step 3: Configure the Ethernet Port

Click on the Port Configuration tab and enter the necessary information. Click Ok.



# Part III: Configuring IP Address for a PanelView Plus

Configuring the IP address for a touch panel is done directly on unit.

### Step 1: Configuration Screen

Navigate to the Configuration screen. If the application is running, look for a button that says TCHPNL CONFIG.

### Step 2: Navigate to Settings

- 1. Push Terminal Settings
- 2. Push and highlight Network and Communications. Push Return button.
- 3. Push and highlight Network Connections. Push Return button.

There are two directions you can go: Network Adapters and Device Name

### Step 3: Device Name

- 1. Push and highlight Device Name. Push return button.
- 2. Push Device Name and enter the name.

#### Step 4: Network Adapters

From Step 2:

- 1. Push and highlight Network Adapters. Push Return button.
- 2. Built-in Ethernet Controller should be highlighted.

There are two items here to set: Name Servers and IP Address.

# Step 5: Name Servers

- 1. Push Name Servers
- 2. Under Name Servers, push buttons to set the DNS and WINS.

### Step 6: IP Address

From Step 4:

- 1. Push IP Address.
- 2. Push the buttons to set the IP, Subnet and Gateway.

# Step 6: Reboot

- Push the OK button when you are done with each step
  The touch panel will prompt you to do a reset. Push OK.
  Push Close until you get back to the main screen in Step 1 and push Reset.