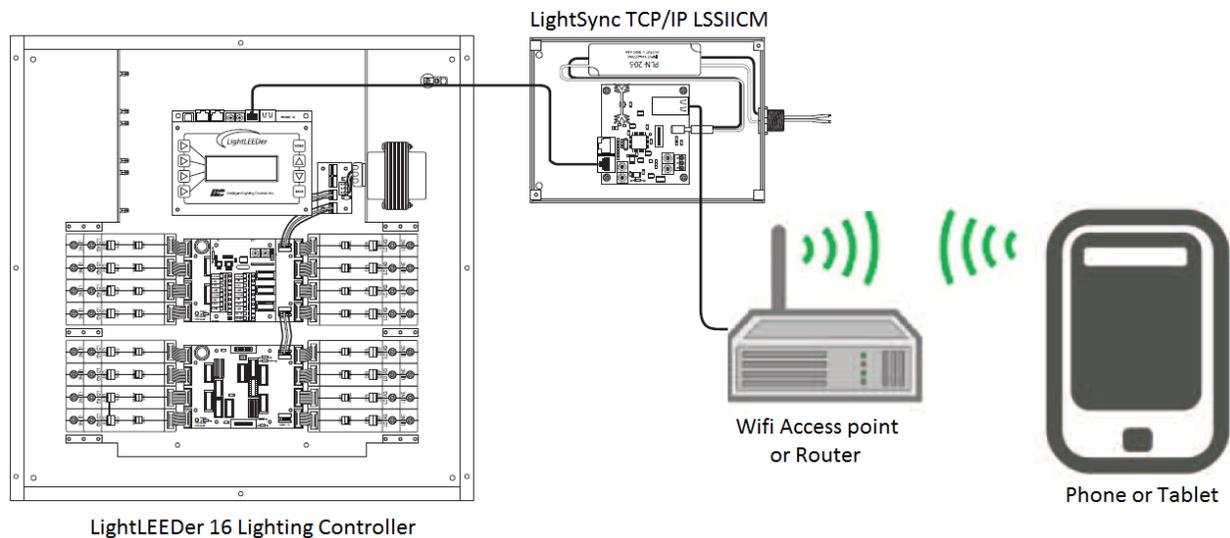


## LightSync TCP/IP LSSIICM Interface Installation



### Example Installation:

When Installing the LightSync Wifi interface module, first verify a location where all the required connections can be made, and the device is accessible for possible adjustment or maintenance. Verify that a building LAN connection or Wifi Router can be located nearby for creating the wireless link to the customer's smart phone or tablet utilizing the ILC Mobile Link Wifi App.

- Install the NEMA-1 enclosure in an indoor location
- Connect 120VAC power to the provided power supply
- Install a CAT-5e data cable from the out port of the LightLEEDer panel to the "IN" port of the LSSIICM
- Set the LightSync device address (Base address)
- Set the dip switches for the address count settings (See PD0622A)
- Verify that the LightLEEDer panel can read the LSSCCIM device using the Diagnostic Tool in the LightLEEDer-Pro software or at the panel keypad
- Connect a CAT-5e data cable from the building LAN or Wifi router to the TCP/IP port on the LSSIICM
- Setup the TCP-IP port on the LSSIICM for the LAN network or Router/Access point address (Figure 1 and 2 )
- Verify the Modbus configuration (Figure 3) within the Lantronix XPort, this will be factory set
- You may test the interface using a Modbus test software like ModScan 32 (Figure 4)
- Download the Mobile LightSync Link Wifi App from the Google Play Store or Apple App Store
- Configure and test the Mobile LightSync Link Wifi App with your system

### TCP/IP port Settings:

The standard setting for the Lantronix XPort TCP/IP interface is shown below in figure 1

The screenshot displays the 'Network' settings page for a Lantronix device. On the left is a vertical navigation menu with the following items: Network (highlighted), Server, Serial Tunnel (with sub-items Hostlist), Channel 1 (with sub-items Serial Settings and Connection), Email (with sub-items Trigger 1, Trigger 2, and Trigger 3), Configurable Pins, Apply Settings, and Apply Defaults. The main content area is titled 'Network Mode: Wired Only' with a dropdown arrow. Below this is the 'IP Configuration' section, which includes a radio button for 'Obtain IP address automatically' (which is unselected) and a sub-section for 'Auto Configuration Methods'. These methods are: BOOTP (radio buttons for Enable and Disable, with 'Enable' selected), DHCP (radio buttons for Enable and Disable, with 'Enable' selected), and AutoIP (radio buttons for Enable and Disable, with 'Enable' selected). There is a text input field for 'DHCP Host Name:'. Below this is another radio button for 'Use the following IP configuration:' (which is selected). This section contains text input fields for 'IP Address: 65.124.130.148', 'Subnet Mask: 255.255.255.248', 'Default Gateway:', and 'DNS Server:'. The 'Ethernet Configuration' section at the bottom has a checked checkbox for 'Auto Negotiate', and radio buttons for 'Speed: 100 Mbps' (selected) and '10 Mbps', and 'Duplex: Full' (selected) and 'Half'. An 'OK' button is located at the bottom right of the configuration area.

Figure 1 - Lantronix Network Settings

### Connection Settings

**Channel 1**

**Connect Protocol**  
Protocol: TCP

**Connect Mode**

**Passive Connection:**  
 Accept Incoming: Yes  
 Password Required:  Yes  No  
 Password:   
 Modem Escape Sequence Pass Through:  Yes  No

**Active Connection:**  
 Active Connect: None  
 Start Character: 0x0D (In Hex)  
 Modem Mode: None  
 Show IP Address After RING:  Yes  No

**Endpoint Configuration:**  
 Local Port: 502  
 Remote Port: 0  
 Remote Host: 0.0.0.0  
 Auto increment for active connect

**Common Options:**  
 Telnet Com Port Cntrl: Disable  
 Connect Response: None  
 Terminal Name:   
 Use Hostlist:  Yes  No  
 LED: Blink

**Disconnect Mode**  
 On Mdm\_Ctrl\_In Drop:  Yes  No  
 Hard Disconnect:  Yes  No  
 Check EOT(Ctrl-D):  Yes  No  
 Inactivity Timeout: 0 : 0 (mins : secs)

OK

Figure 2 - Connection Settings

### Serial Settings

**Channel 1**

Disable Serial Port

**Port Settings**  
 Protocol: RS232  
 Baud Rate: 38400  
 Data Bits: 8  
 Parity: None  
 Stop Bits: 1  
 Flow Control: None

**Pack Control**  
 Enable Packing  
 Idle Gap Time: 12 msec  
 Match 2 Byte Sequence:  Yes  No  
 Match Bytes: 0x00 0x00 (Hex)  
 Send Frame Immediate:  Yes  No  
 Send Trailing Bytes:  None  One  Two

**Flush Mode**

**Flush Input Buffer**  
 With Active Connect:  Yes  No  
 With Passive Connect:  Yes  No  
 At Time of Disconnect:  Yes  No

**Flush Output Buffer**  
 With Active Connect:  Yes  No  
 With Passive Connect:  Yes  No  
 At Time of Disconnect:  Yes  No

Figure 3 - Modbus Serial Settings

Testing the interface can be done using a Modbus test software to verify operation of the TCP/IP ports communication, setting for ModScan 32 test software are shown in Figure 4

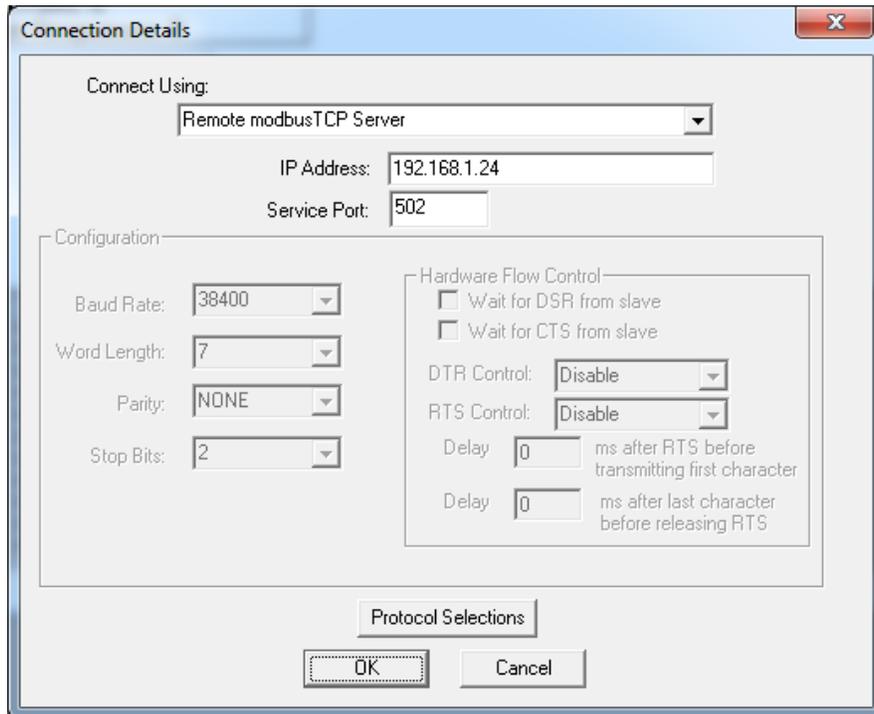


Figure 4 - ModScan 32 Settings