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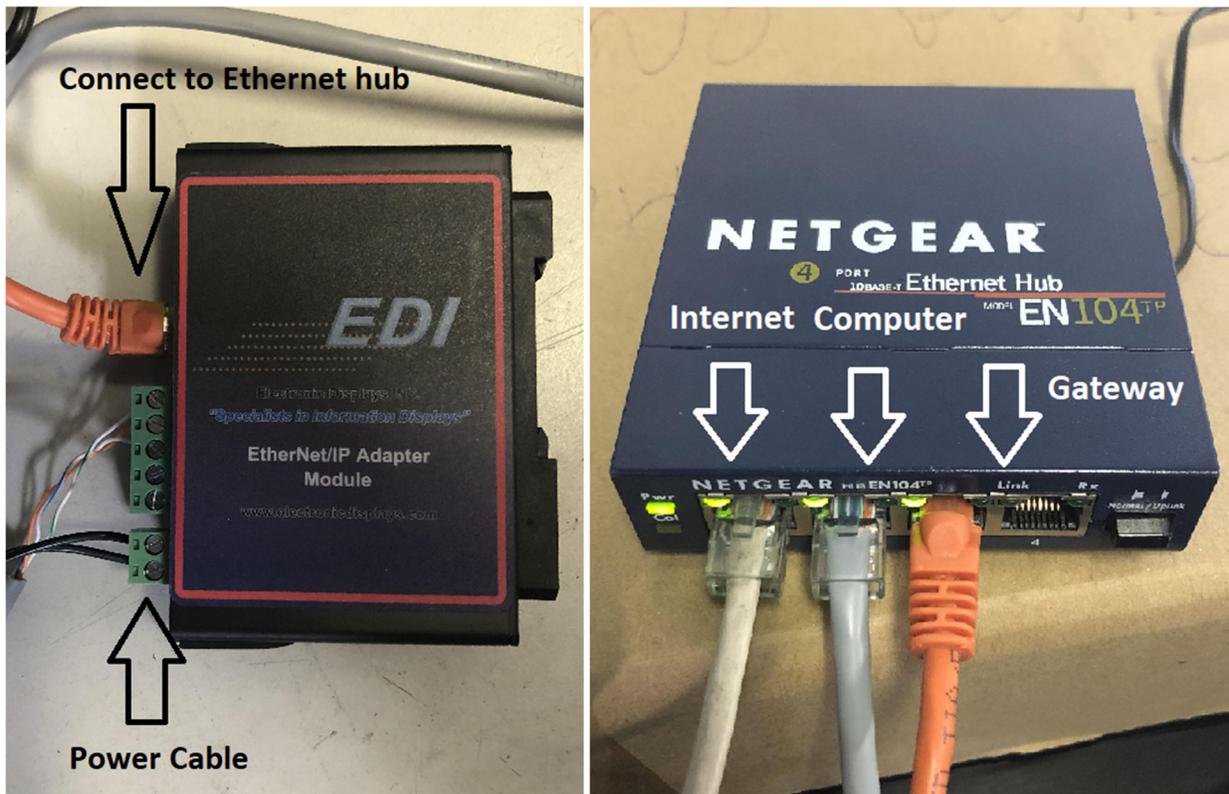
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ED3600 Gateway Device

Necessary Physical Connections

1. Connect ED3600 Gateway to Ethernet hub using CAT6 cable as seen below in Figure 1. Connect hub to computer, then connect wired Internet connection using CAT6 cable. The finished Ethernet hub is shown in Figure 2.



Figures 1 & 2. Necessary connections are shown and outlined. Make sure all connections are secure before moving on to next step.

2. Using the provided power supplies for both the Ethernet hub and the ED3600 Gateway respectively, connect both to a wall outlet. The Ethernet hub will have

green lights signifying that a solid connection has been made and the 'Pwr' indicator will remain lit.

Programming ED3600 Gateway

1. Open a web browser (Internet Explorer, Google Chrome, FireFox, etc...) and in the top address bar type '192.168.1.11', then press enter. You will be brought to the Main Page as seen below in Figure 3.

Step 1: 192.168.1.11 in address bar & enter will lead to this Main Page

Step 2: Configuration mode Main Page

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MODE: RUNNING
ED-3500

Configuration Mode

Main Page

Device Description:

Save Parameters

CONFIGURATION

- Network Configuration
- Port Configuration
- ASCII
- EIP Adapter

DIAGNOSTICS

OTHER

Network Status	Link Status	MAC Address	IP Address
Ethernet Port	10Mbps, Half Duplex	00:03:F4:0D:AF:DF	192.168.1.11

ASCII Status

Device Status: Not Connected
Queued Messages: See Device Level
Last Parsed Error:
LED Status: Connection Status: First Time Scan

Ethernet/IP Adapter Status

Device Status: Not Connected
Last I/O FwdOpen Error:
LED Status: Connection Status: Not Connected

Figure 3. Steps 1 & 2 are shown and Main Page is displayed. Note the 'Running' indicator in the upper right corner.

2. Click on the 'Configuration Mode' indicator on the left side of the screen as shown above. Click 'OK' for any warnings that appear.

3. Once redirected to the Configuration Mode main page as seen in Figure 4, click on 'Port Configuration'.

Main Page

Main Page Device Description:

CONFIGURATION

- Network Configuration
- Port Configuration** ← **Step 3: Port Configuration**
- ASCII
- EIP Adapter
- Restart Now

Network Status

Ethernet Port	Link Status	MAC Address	IP Address
	10Mbps, Half Duplex	00:03:F4:0D:AF:DF	192.168.1.11

DIAGNOSTICS

-Select- **ASCII Status**

Device Status: Configuration Mode... Gateway Restart Needed
 Queued Messages:
 Last Parsed Error:
 LED Status: Connection Status: Configuration Mode

OTHER

-Select- **Ethernet/IP Adapter Status**

Device Status: Configuration Mode... Gateway Restart Needed
 Last I/O FwdOpen Error:
 LED Status: Connection Status: Configuration Mode

Figure 4. Configuration main page is shown. Note the 'Configuring' message in the upper right corner.

4. Click the drop-down menu for 'Mode' and select RS232. This is shown in Figure 5 below.

5. Next, click the drop-down menu for Serial Baud and select '9600'. This is also shown in Figure 5 below.

Comm Ports Configuration

Main Page

CONFIGURATION

- Network Configuration
- Port Configuration
- ASCII** ← **Step 6: Click on ASCII**
- EIP Adapter
- Restart Now

DIAGNOSTICS

-Select-

OTHER

-Select-

Enable Serial Port:

Mode: RS232 ← **Step 4: Set to RS232**

Serial Baud: 9600 ← **Step 5: Set to 9600**

Parity: None

Data Bits: 8

Stop Bits: 1

RS232

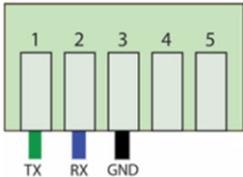


Figure 5. Steps 4, 5, & 6 are shown. **Nothing should be changed besides Mode and Serial Baud.**

6. Click on the 'ASCII' tab on the left side of the screen. This will redirect you to the ASCII Configuration menu.

7. In both the 'Receive Data' and 'Transmit Data' columns, change the Max Message Length to 196 characters. This is shown below in Figure 6.

8. Under both columns again, change the 'Start' and 'End' values to read a value of '1'. This is shown in Figure 6.

ASCII Configuration Help

Main Page -Select- Delete ASCII Device

<< 1 >>
1-1

CONFIGURATION

- Network Configuration
- Port Configuration
- ASCII**
- EIP Adapter
- Restart Now

<input checked="" type="checkbox"/> Enable	ASCII Device 1	
Port	Serial Port	Device Label ASCII01
LED Inactivity		0 0-60000 s

DIAGNOSTICS -Select-

OTHER -Select-

Receive Data (ASCII to 460ESA)

Enable:

Max Message Length: 196 1-1024 chars

Receive Character Timeout: 0 0-60000 ms

Transmit Data (460ESA to ASCII)

Enable:

Max Message Length: 196 1-1024 chars

Transmit Timeout: 0 0-60000 ms

Delay Between Messages: 0 0-60000 ms

Step 7: Change Max Message Length to 196 in both columns

Delimiters

Start	1	[STX] 2 0x02	[NUL] 0 0x00
End	1	[ETX] 3 0x03	[NUL] 0 0x00

Remove Delimiters from ASCII Message:

Step 8: Change Start and End values for both columns to 1

Save Parameters

Figure 6. Steps 7 & 8 are displayed in their completed states. **IMPORTANT: Note that the Receive Data and the Transmit Data match.**

9. For both 'Receive Data' and 'Transmit Data', click on the drop-down menu for Start and select [STX] 2 0x02. This is shown below in Figure 7.

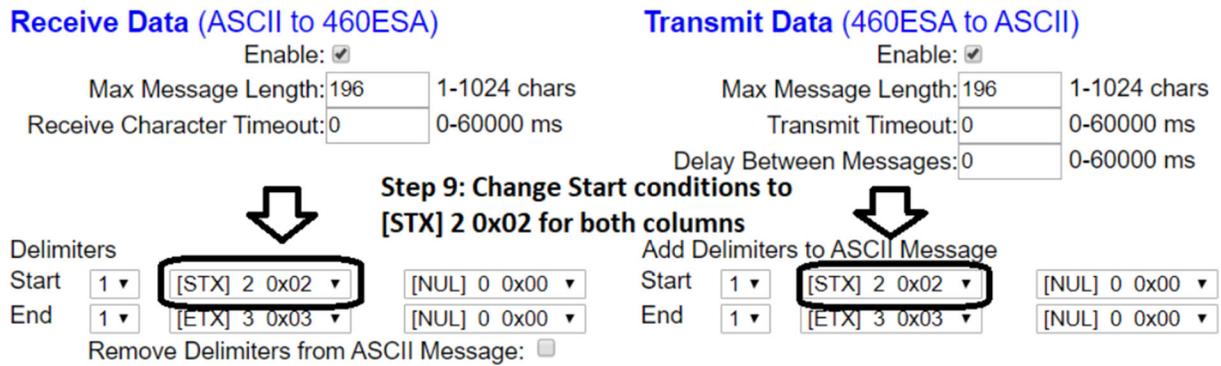


Figure 7. Start conditions are displayed in their final states of [STX] 2 0x02.

10. For both 'Receive Data' and 'Transmit Data' columns, click the drop-down menu for the End conditions and select [ETX] 3 0x03. This is shown in Figure 8.

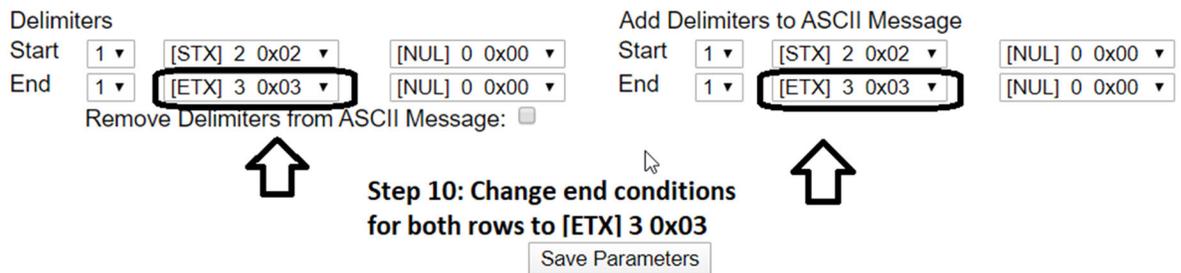


Figure 8. End conditions are displayed in their final states of [ETX] 3 0x03.

10. Click 'Save Parameters' located at the bottom of the screen. This is shown in Figure 9 on the next page.

11. Click 'Restart Now' located at the left side of the screen and click accept to the popup notification.

12. You will then be redirected to the Main Page.

13. Programming process complete!

The screenshot displays the 'ASCII Configuration' web interface. At the top, there is a 'Main Page' button and a 'Delete ASCII Device' button. Below these are navigation tabs for 'CONFIGURATION' (Network Configuration, Port Configuration, ASCII, EIP Adapter, Restart Now) and 'DIAGNOSTICS' and 'OTHER'. The main configuration area is for 'ASCII Device 1', which is currently 'Enable'. It shows 'Port' set to 'Serial Port' and 'Device Label' as 'ASCII01'. The 'LED Inactivity' is set to '0' with a range of '0-60000 s'. Below this, there are two sections: 'Receive Data (ASCII to 460ESA)' and 'Transmit Data (460ESA to ASCII)'. Both sections have 'Enable' checked. For 'Receive Data', 'Max Message Length' is 196 (range 1-1024 chars) and 'Receive Character Timeout' is 0 (range 0-60000 ms). For 'Transmit Data', 'Max Message Length' is 196 (range 1-1024 chars), 'Transmit Timeout' is 0 (range 0-60000 ms), and 'Delay Between Messages' is 0 (range 0-60000 ms). At the bottom, there are 'Delimiters' settings for 'Start' and 'End' with dropdown menus for characters like [STX], [ETX], and [NUL]. There is also a checkbox for 'Remove Delimiters from ASCII Message'. A 'Save Parameters' button is located at the bottom right. An arrow points to the 'Restart Now' button in the left sidebar, and another arrow points to the 'Save Parameters' button.

Step 12: Restart Now

Step 11: Save Parameters

Figure 9. The final steps of Saving Parameters and restarting device are shown.

Updating ED3600 Gateway

1. Connect ED3600 Gateway to computer using CAT6 cable
2. Access the RTA AutoUpdate software already installed on computer, or download at <https://www.rtautomation.com/460-gateway-support/> and select "AutoUpdate.exe".
3. Run the AutoUpdate.exe file and click the Find button as shown in Figure 10.

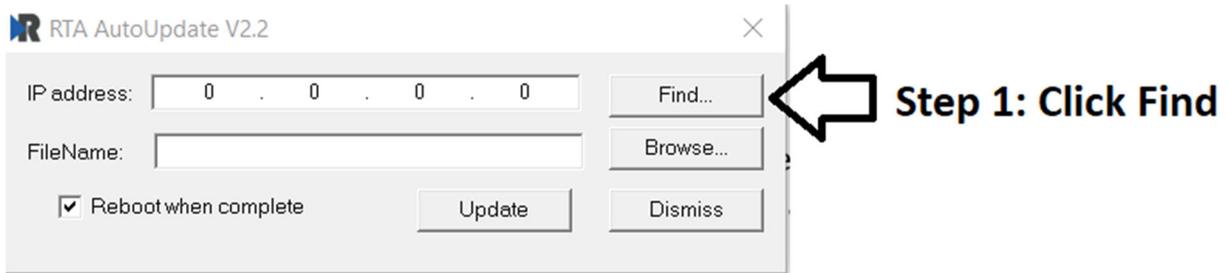


Figure 10. RTA software is displayed and Find, Browse, and Update buttons are shown.

4. Click the Browse button and search for the file named '460_ESA_91_NNA1_APP.s19'
 5. Click the Update button. This will update the software and complete the update process.
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