CTW E5 EIP Comms Configuration EDS Installation


CONTROL/COMPACTLOGIX COMMS

GMCCUTCHEON NOTES 10/30/2025

Files and Hardware

- This example uses a CompactLogix 1769-L24ER-QBFC1B (v36) and Studio 5000 Logix Designer Mini Edition to show how to connect a CasTemp Wireless E5 with an Anybus M40 EtherNet/IP option module to the PLC.

- The Anybus ABCC CompactCom 40 EtherNet/IP EDS File '005A002B00370100.eds' for EIP communication.
  - Anybus CompactCom M40 EDS File 005A002B00370100.zip
    - Download the EDS file from the link above.
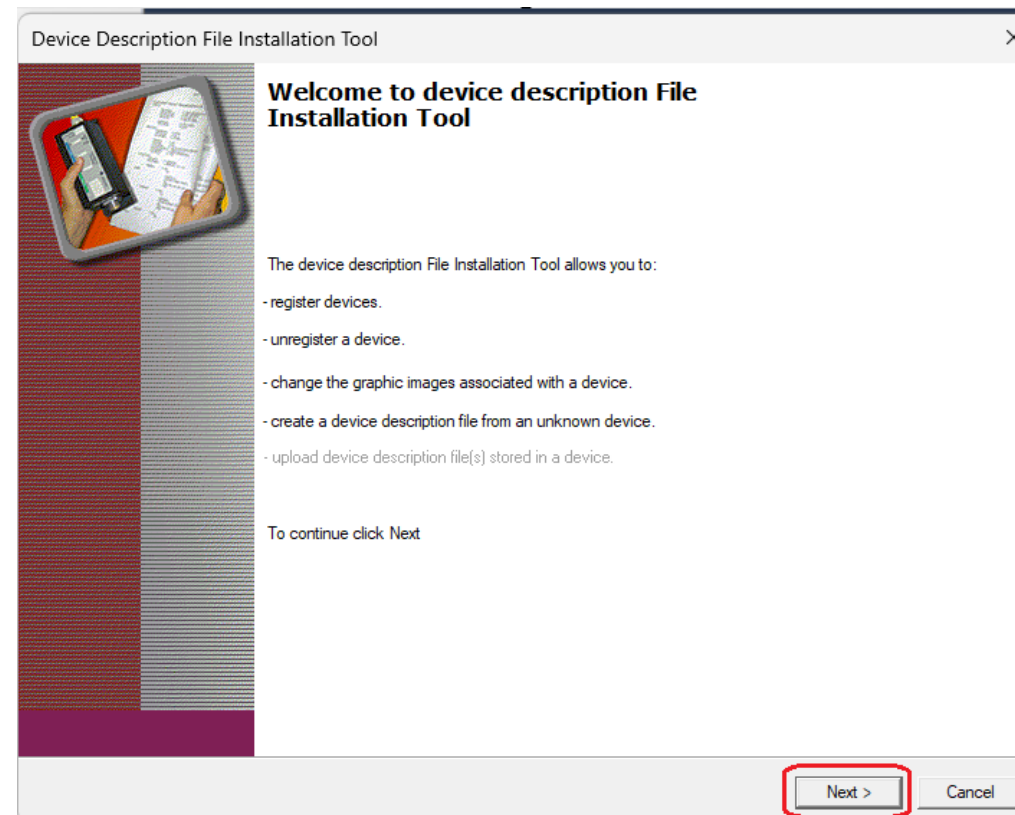   - Unzip the file to a convenient location for installation as Studio5000 will need to import this file.

EIP Hardware Installation Tool

- In Studio5000, open the 'EIP Hardware Installation Tool' menu item from the 'Tools' menu.
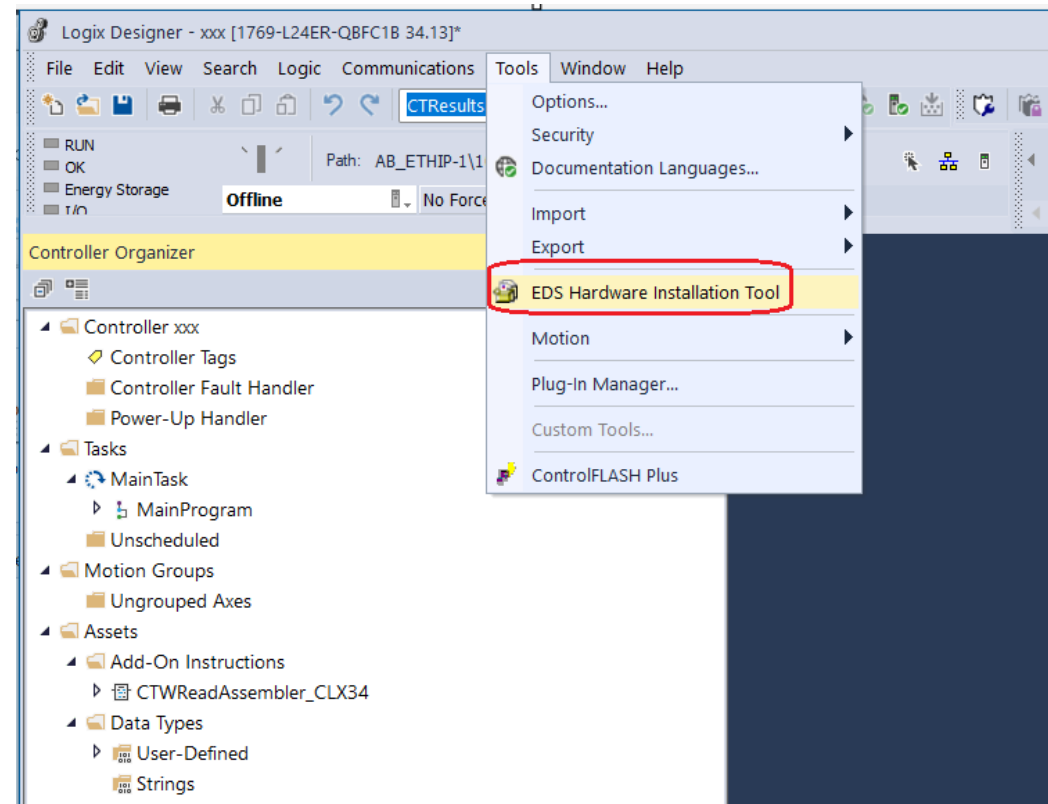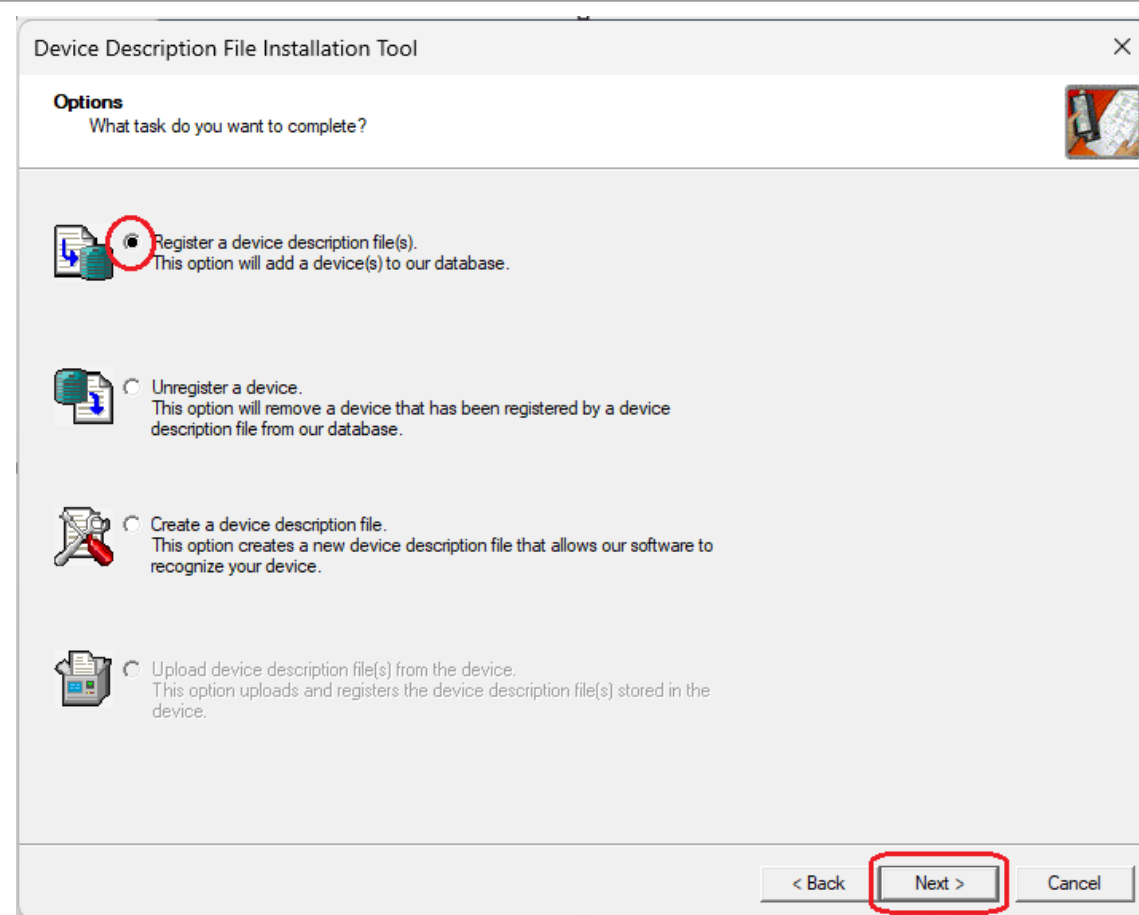
EIP Hardware Installation Tool
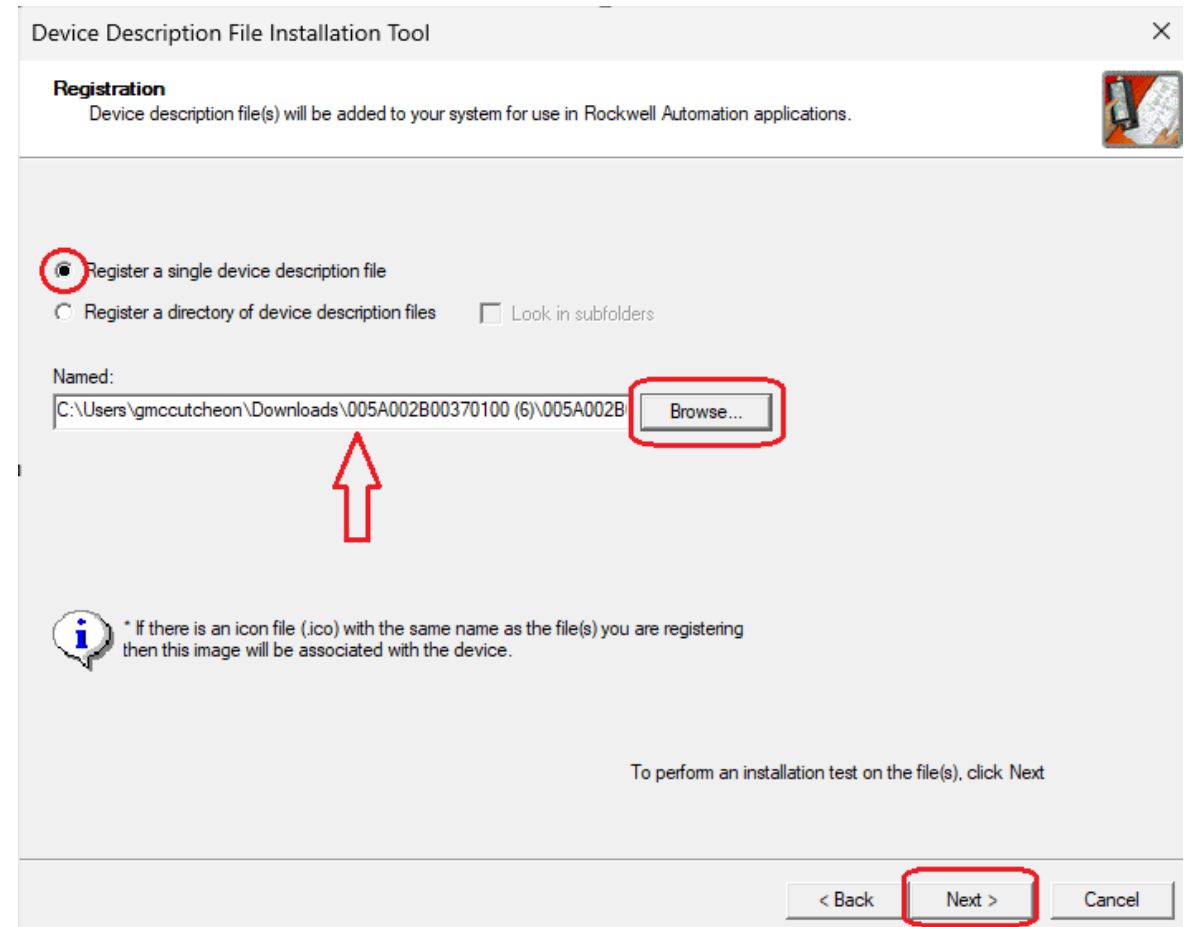
- Once the 'Welcome Screen' opens, click <Next>.

EIP Hardware Installation Tool

• Select 'Register a device description file(s).' then click <Next>.
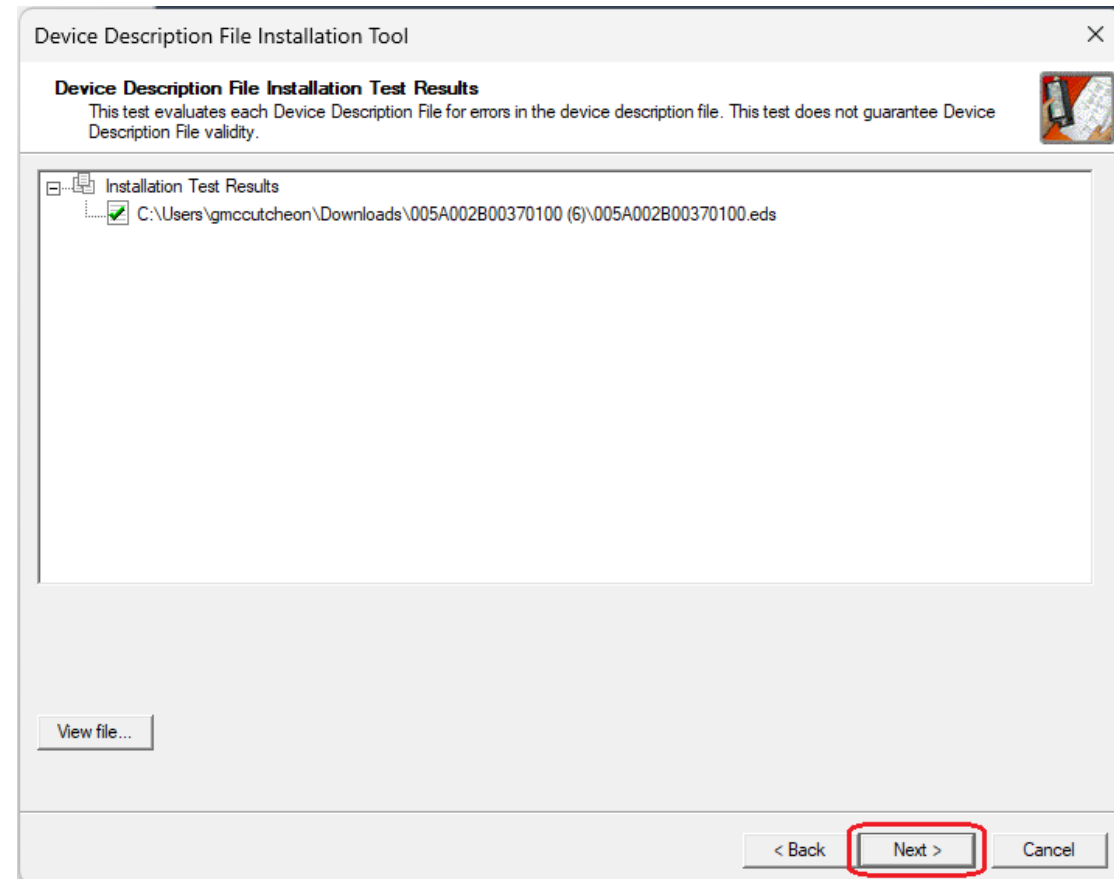
EIP Hardware Installation Tool

- Select 'Register a single device description file'.

- Click <Browse>.
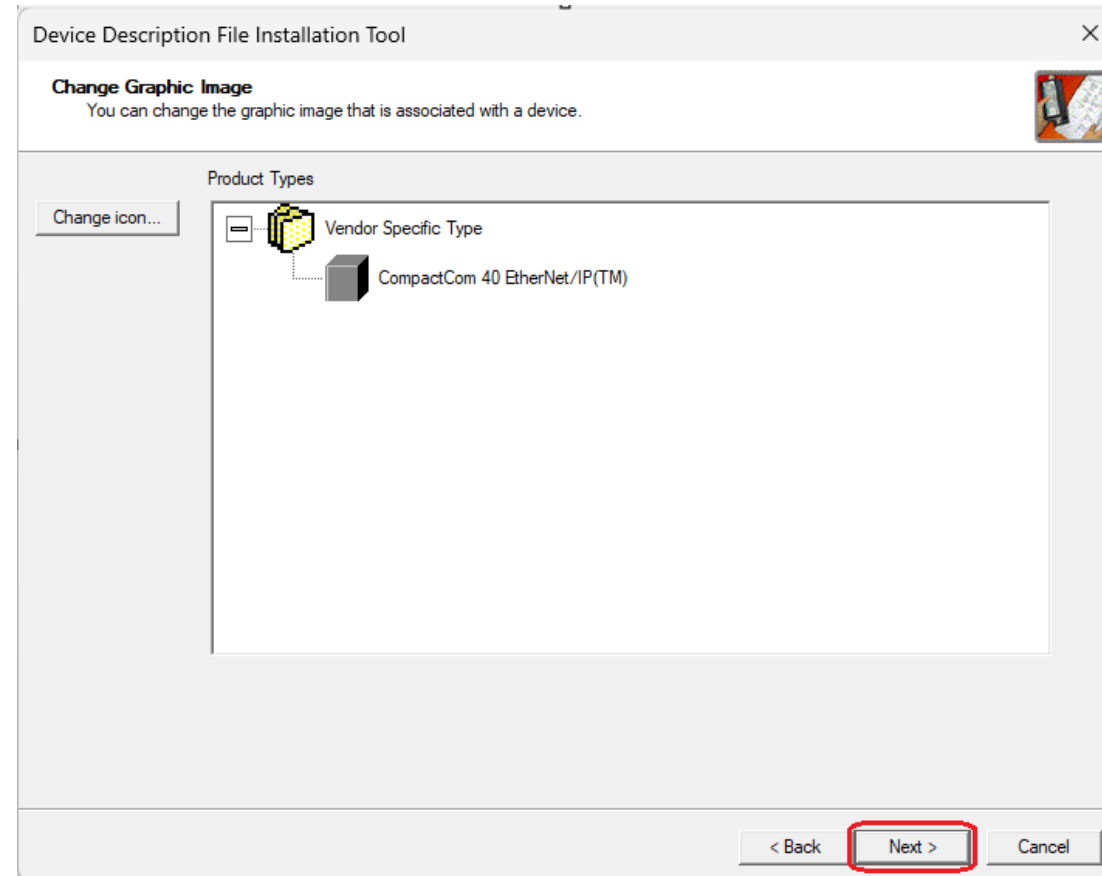
- Navigate to and select the .EDS file.

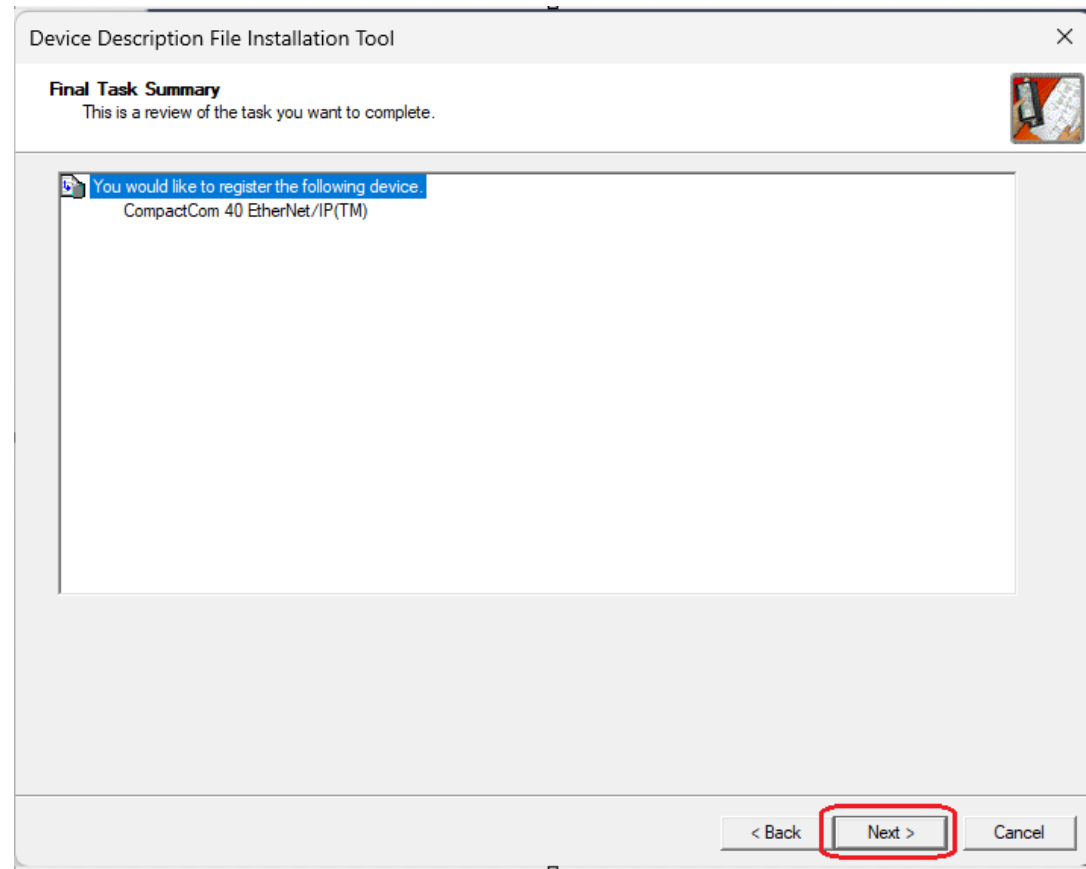- Click <Next>.

EIP Hardware Installation Tool

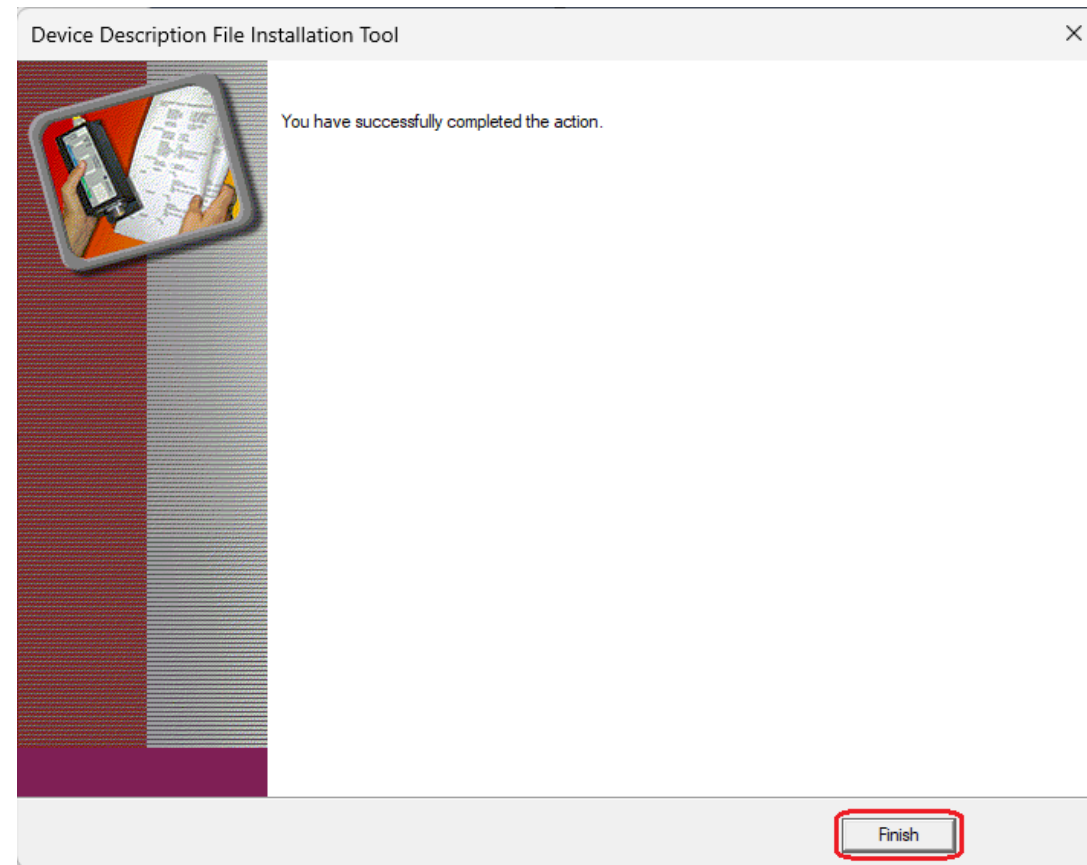
- Click <Next>.

EIP Hardware Installation Tool

- Click <Next>.

EIP Hardware Installation Tool
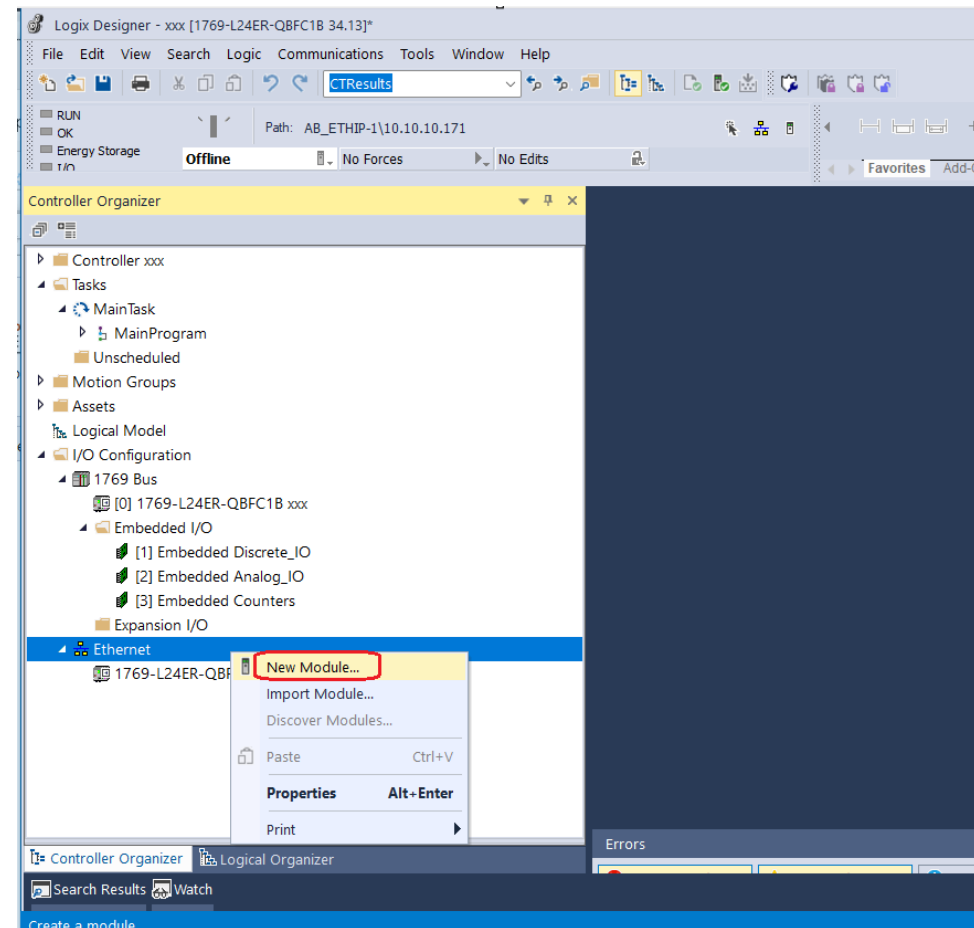
- Click <Next>.

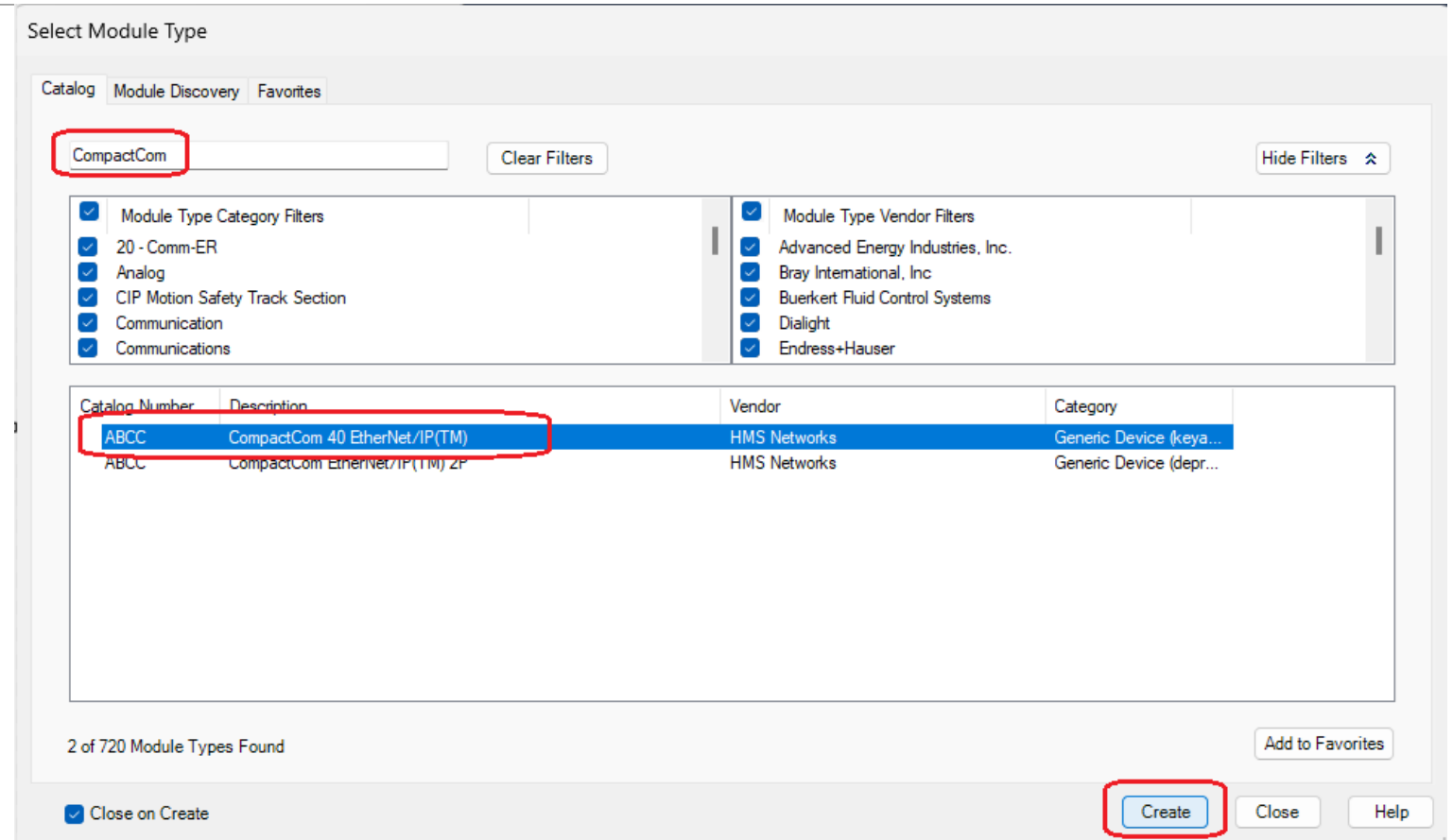# EIP Hardware Installation Tool

• Click <Finish>.

Module Creation and Configuration

- Right-click 'Ethernet' in the Studio5000 Controller Organizer.

- Select the 'New Module' menu item

Module Creation and Configuration

- Type "CompactCom" into the search textbox.
- Select "CompactCom 40 EtherNet/IP(TM)".
- Click <Create>

Module Creation and Configuration

- Add the EIP IP address for the Celox Lab E4.
  - In this example '10.10.10.169' .

- Name the module.
  - In this example 'CTWE5'.
  - The controller tags created to manage the data from this module will use this name (ie CTWE5 :I.Data).

- Click <Change>

Module Creation and Configuration

- Set the Input Assembly size to 128

- Set the Output Assembly size to 64.

- Set the data type to SINT.

- Click <OK>.

Module Creation and Configuration

- A warning window will come up.

- Click <Yes> then <OK> to Close the New Module window.

- The module creation is completed.

- In most cases the program must be uploaded to the PLC at this point.
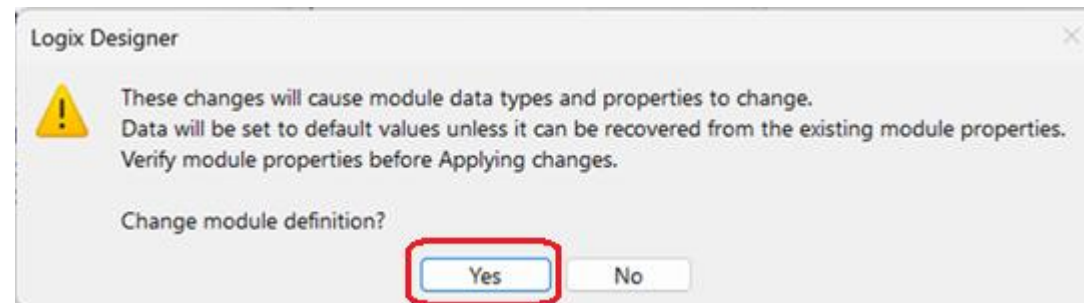
Controller Tags

- Open the 'Controller Tags' window and find the Input and output tags associated with the module that was created.
  - In this case:
    - CTWE5:I
    - CTWE5:O
  - Use the ConnectionFaulted input BOOL to monitor communications status with the CasTemp Wireless E5
  - CTWE5:I.Data is the 128-byte SINT array that carries data from the CasTemp Wireless E5 into the PLC.