

Advantech AE Technical Share Document

Date	2015/10/23	SR#	1-2277466558
Category	<input type="checkbox"/> FAQ <input checked="" type="checkbox"/> SOP	Related OS	N/A
Abstract	ADAM-6100-EI, How to configure ADAM-6100EI module in CX-One		
Keyword	ADAM, PLC, RemoteIO, Ethernet I/P, CX-One, EDS, Configuration		
Related Product	ADAM-6117EI, ADAM-6124EI, ADAM-6150EI, ADAM-6151EI, ADAM-6156EI, ADAM-6160EI		

■ Problem Description:

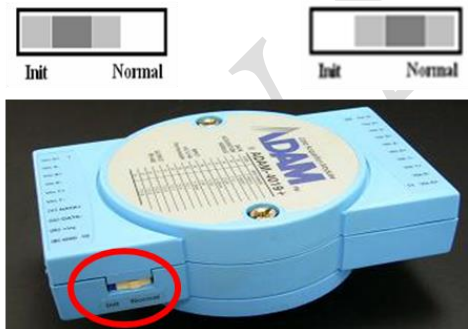
In this document, we will demonstrate how to connect ADAM-6100EI module to OMRON PLC by CX-One

■ Brief Solution - Step by Step:

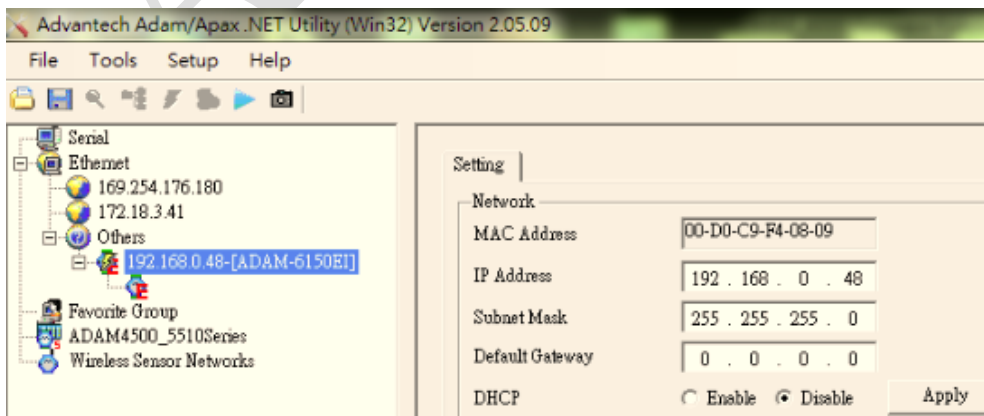
Configure ADAM-6100EI by *AdamApax.NET* Utility

1. Turn the ADAM-6100 EI to Initial Mode

Initial mode Normal mode

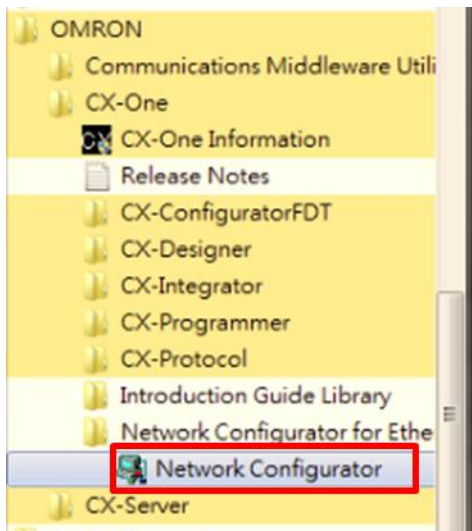


2. Use *AdamApax.NET* Utility to configure the IP of ADAM-6100-EI → turn to Normal Mode → Replug the power

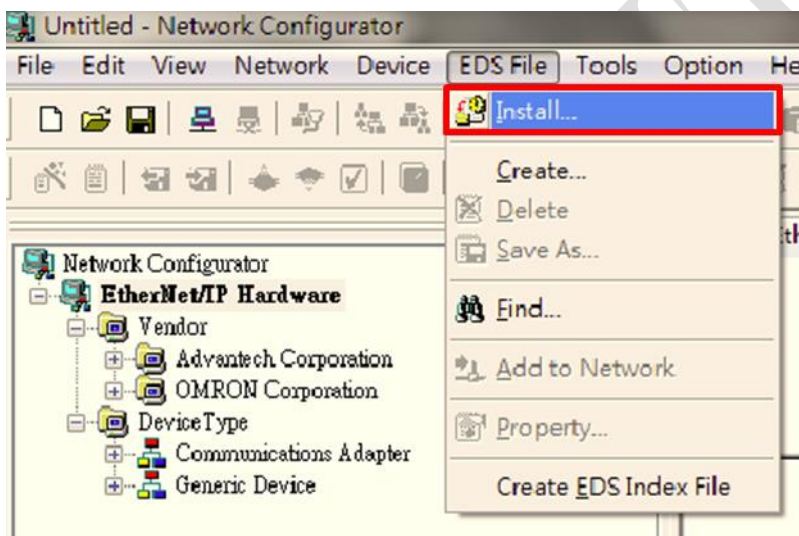


Network Configurator to Setup Network

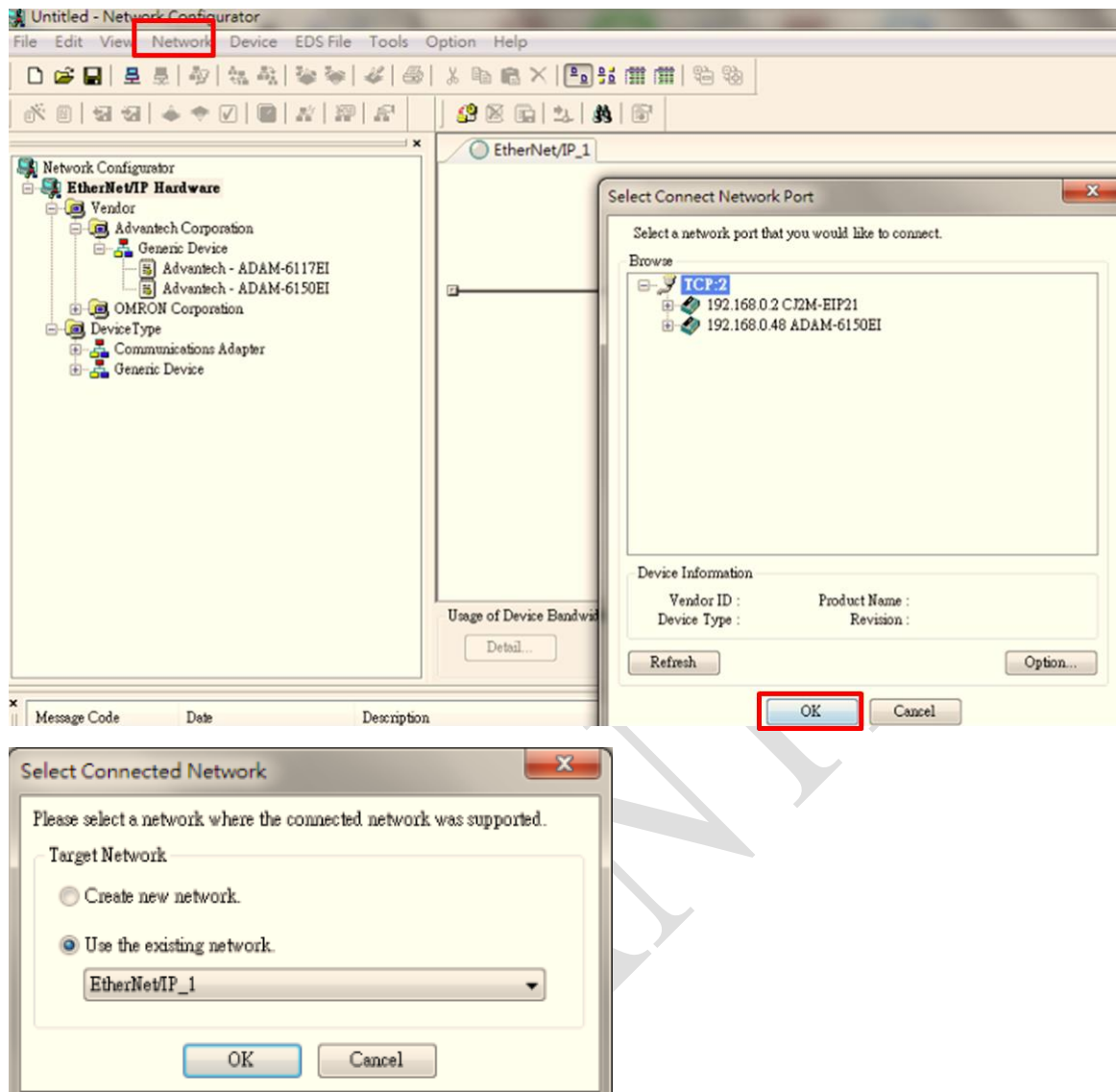
1. Execute the *Network Configurator* from start menu



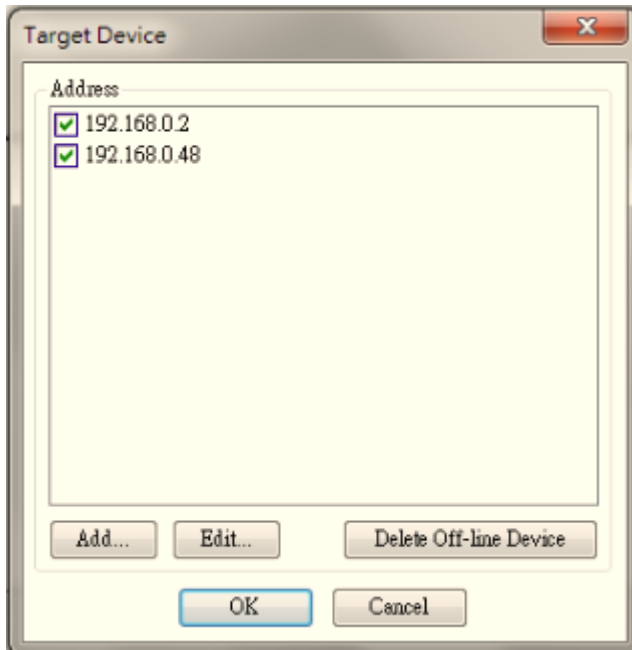
2. Click **EDS file** → Click **Install** to install the EDS file and icon



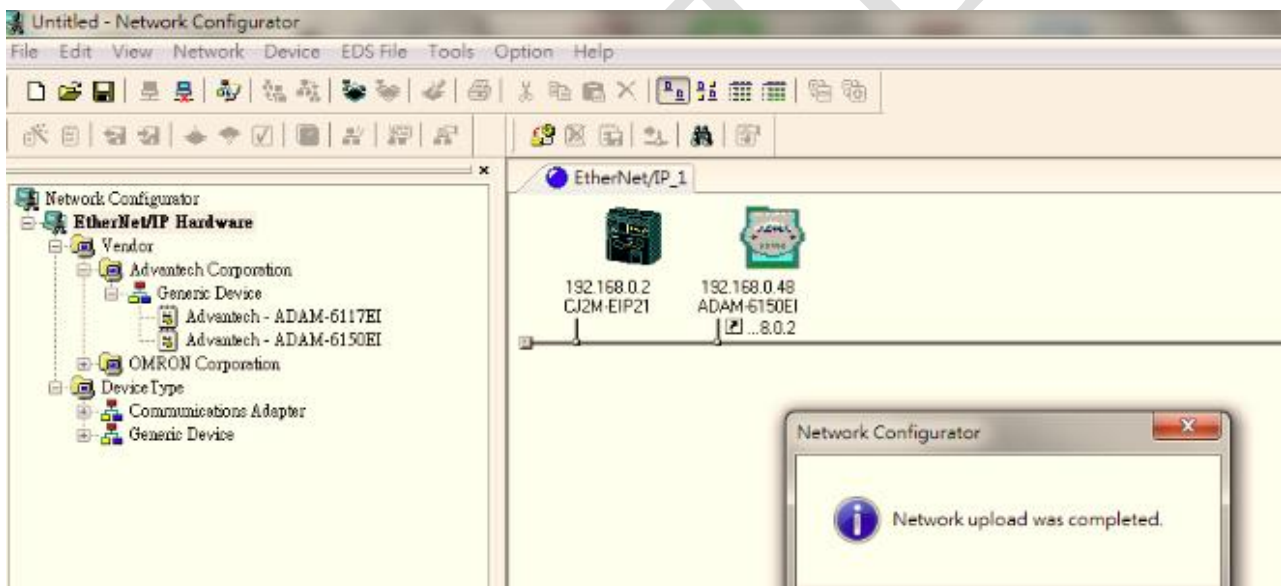
- Click **Network**→Click **Connect**, and then Omron PLC and ADAM-6150EI are found in the Netowrk→Click **OK**→select the existing Network EtherNet/IP_1



4. Click **Network**→**Upload**→Select Target Devices→Click **OK**

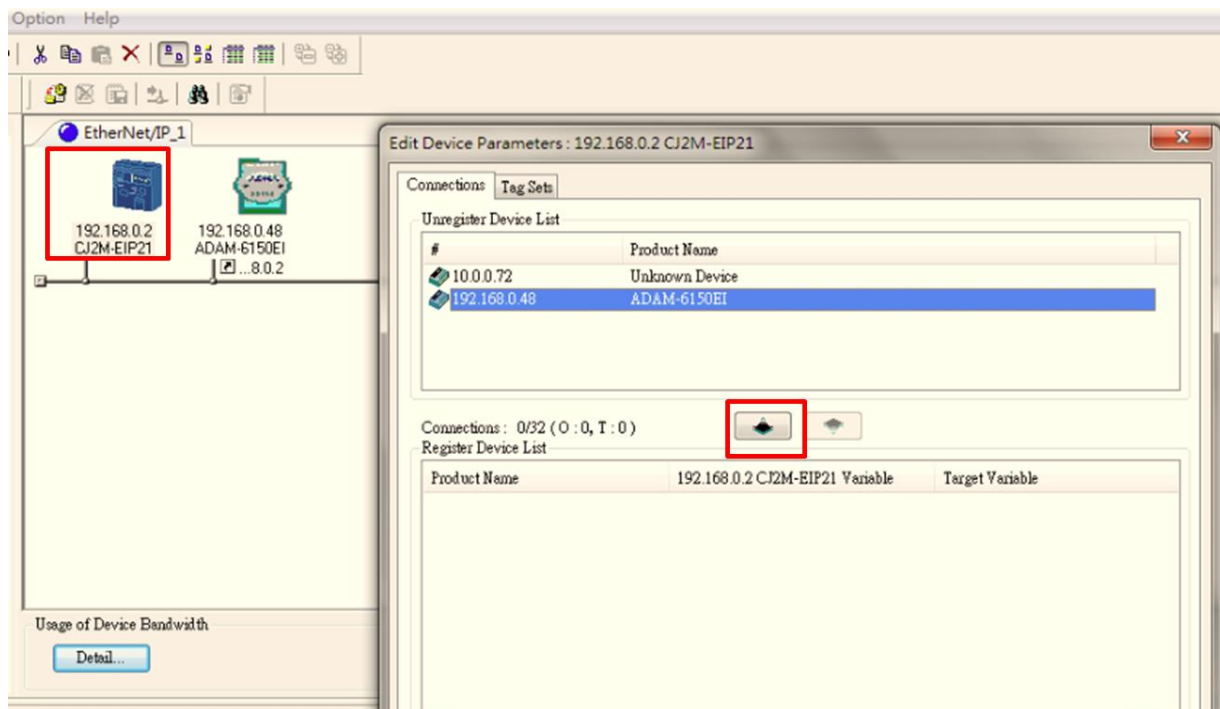


5. OMRON PLC and ADAM-6100EI are shown on the Network

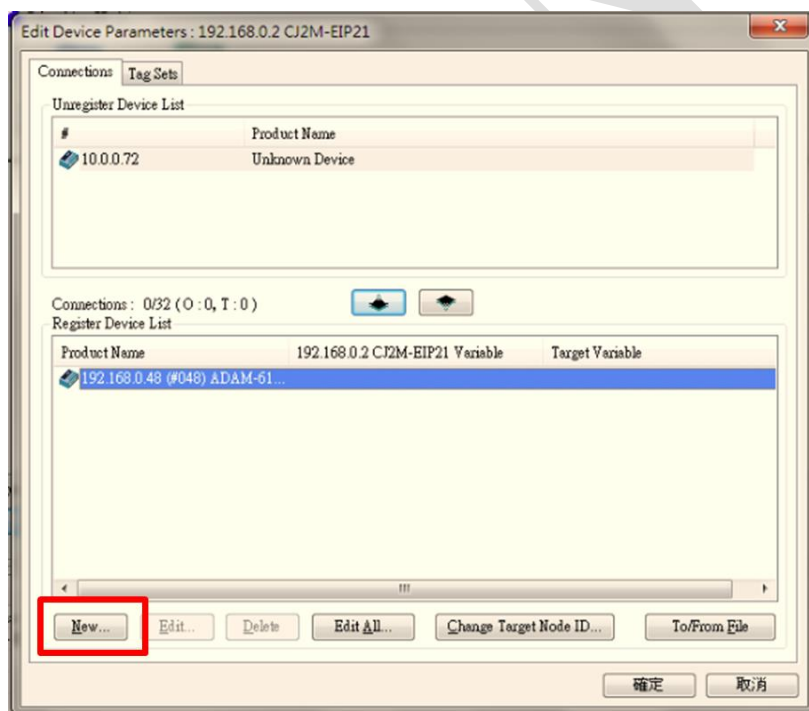


6. Double click the OMRON PLC item to configure the device → select the ADAM-6100EI

device → click  button



7. Select device → click **New**



8. Configure the variable of the PLC inputs for ADAM-6100EI
 Address 5000, Size: 2 Byte for DI
 Address 5100, Size: 2 Byte for DO
 →click **Regist**

192.168.0.48 ADAM-6150EI Edit Connection

It will add a connection configuration to originator device.
Please configure the Tag Set each of originator device and target device.

Connection I/O Type : APAXConn1

Originator Device

Node Address : 192.168.0.2
 Comment : CJ2M-EIP21

Input Tag Set : Edit Tag Sets
 5000 - [2Byte]

Connection Type : Multi-cast connection

Output Tag Set : Edit Tag Sets
 5100 - [2Byte]

Connection Type : Point to Point connection

Target Device

Node Address : 192.168.0.48
 Comment : ADAM-6150EI

Output Tag Set :
 Input_102 - [2Byte]

Input Tag Set :
 Output_101 - [2Byte]

Hide Detail

Detail Parameter

Packet Interval (RPI) : 50.0 ms (1.0 - 10000.0 ms)
 Timeout Value : Packet Interval (RPI) x 4

Connection Name : (Possible to omit)

Connection Structure

192.168.0.2 CJ2M-EIP21 *

Regist Close

Edit Device Parameters : 192.168.0.2 CJ2M-EIP21

Connections Tag Sets

Unregister Device List

#	Product Name
10.0.0.72	Unknown Device

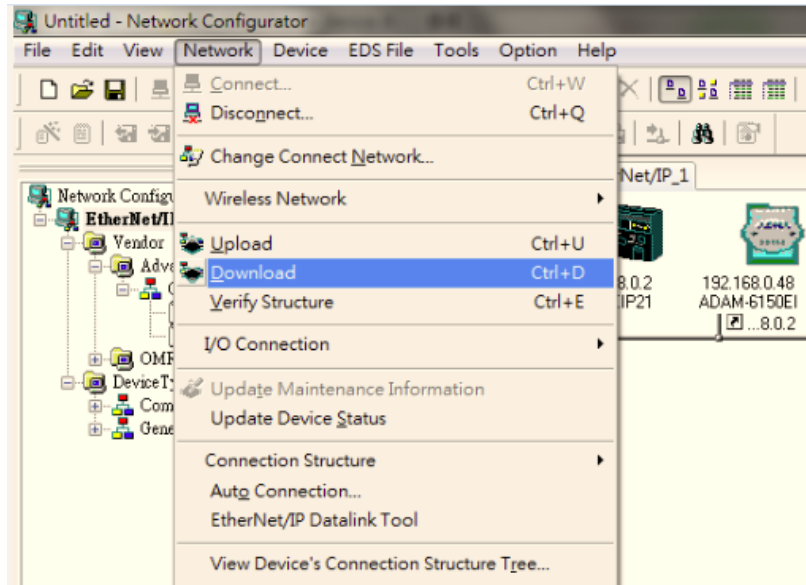
Connections: 2/32 (O:2, T:0)

Register Device List

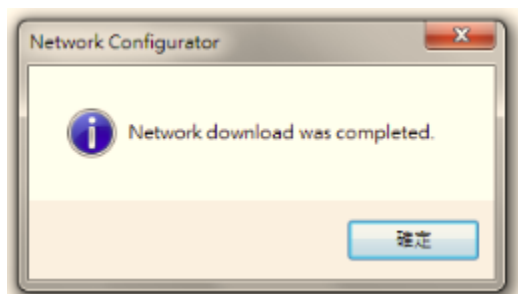
Product Name	192.168.0.2 CJ2M-EIP21 Variable	Target Variable
192.168.0.48 (#048) ADAM-6150EI		
default_001 [Input]	5000	Input_102
default_001 [Output]	5100	Output_101

New... Edit... Delete Edit All... Change Target Node ID... To/From File

9. Click **Network**→ **Download**

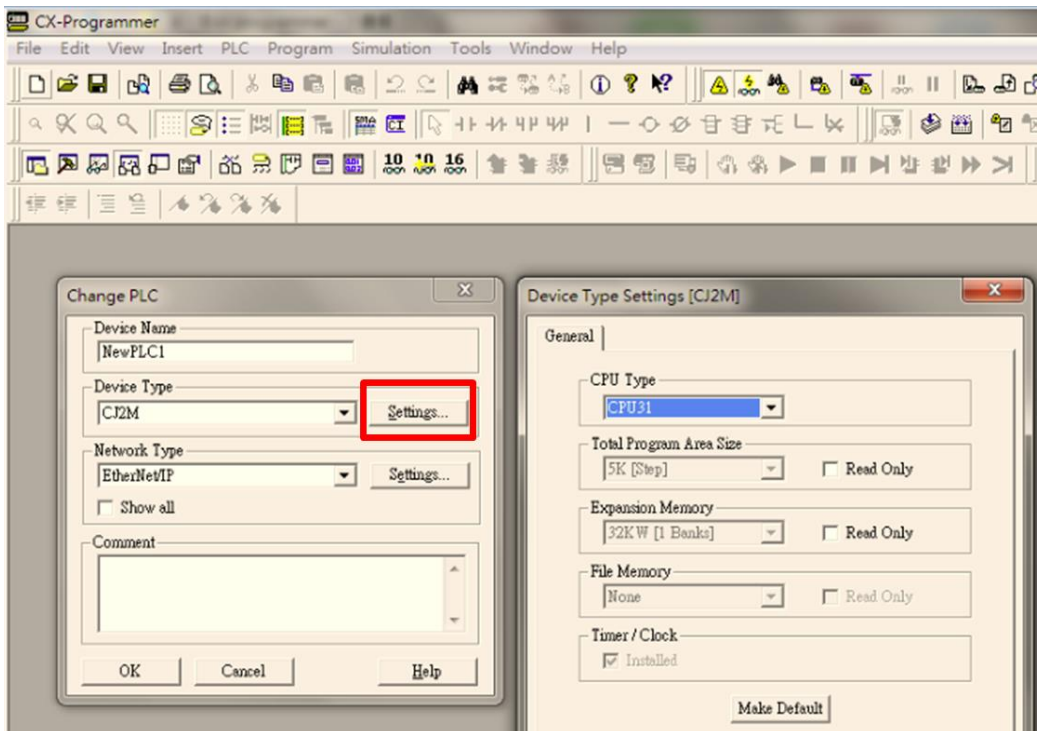


10. Network setup is completed

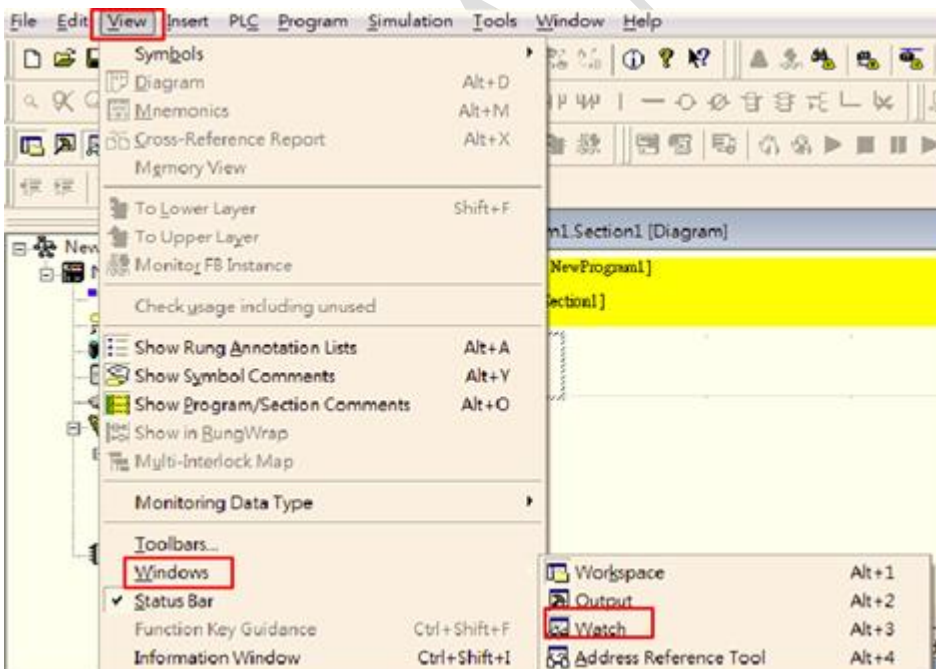


CX-programmer to Test the Configuration

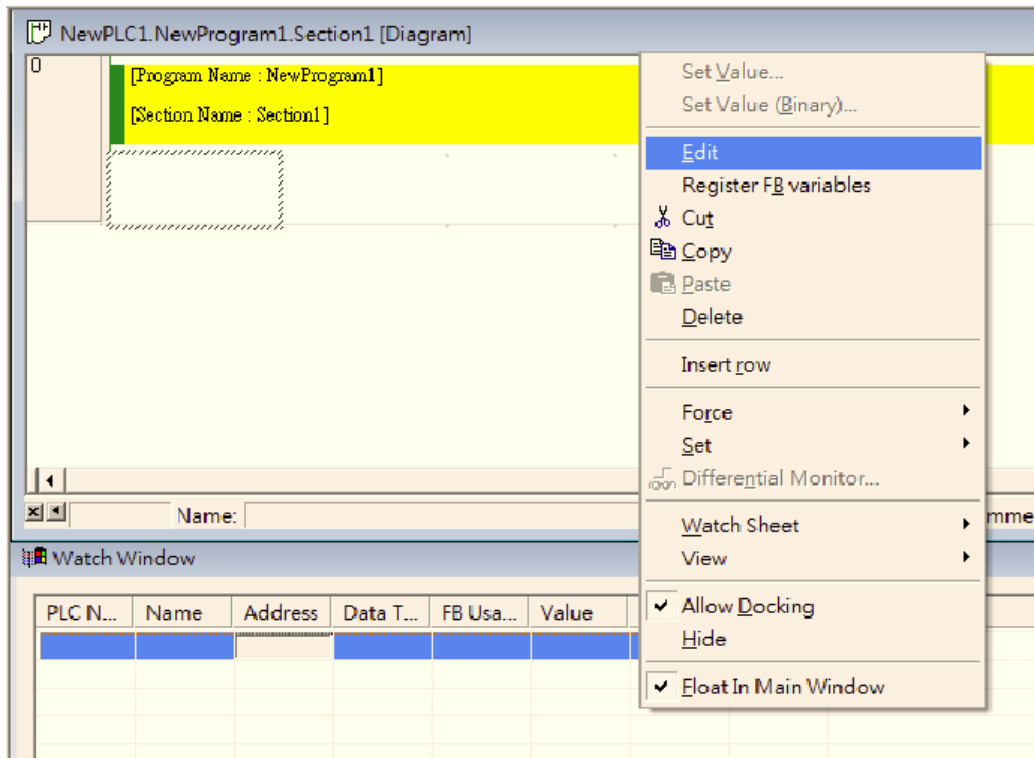
1. Open CX-programmer→click **New** button→ click **setting** to choose the CPU type of PLC



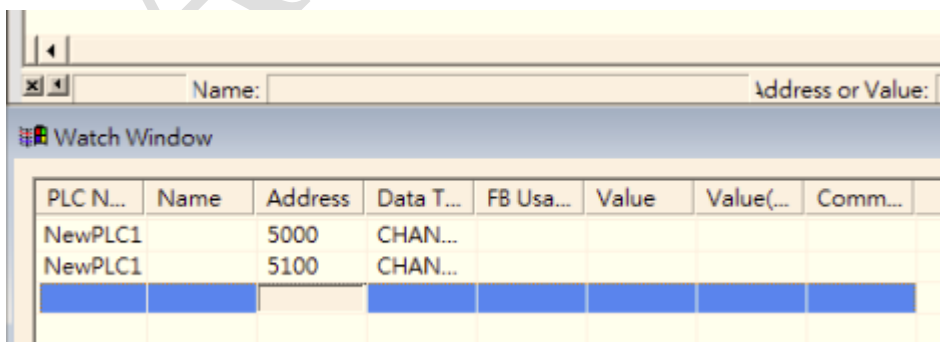
2. Click **View**→**Windows**→Click **Watch** to open the Watch Window



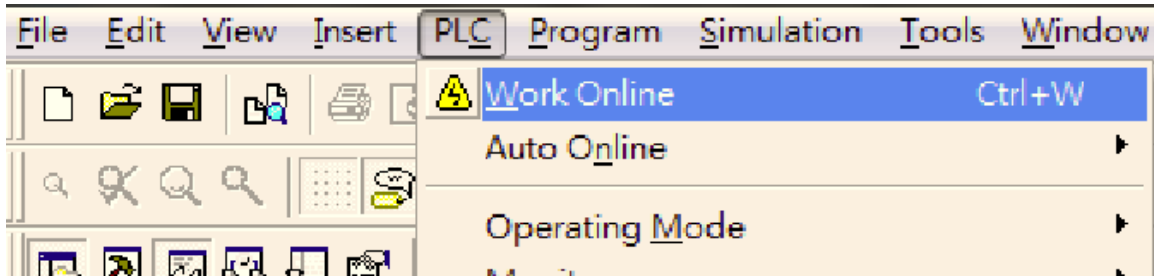
3. Right click on watch window → click **Edit**



4. Enter 5000 (PLC address of the inputs) in the Name or address column
Enter 5100 (PLC address of the outputs) in the Name or address column
The variables are listed in Watch Window



5. Click PLC → Work online



6. Bit values will display status of ADAM-6100EI series in watch window

Watch Window							
PLC N...	Name	Address	Data T...	FB Usa...	Value	Value(Binary)	Comm...
NewPLC1		5000	CHAN...		0004 Hex	0000 0000 0000 0100	
NewPLC1		5100	CHAN...		0001 Hex	0000 0000 0000 0001	