



EasyRemoteIO User Guide

EasyRemoteIO

This guide walks through settings in EasyRemoteIO for configuring Weintek iR-ETN.

UM018004E_20210220

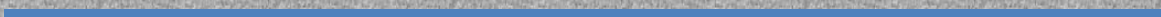


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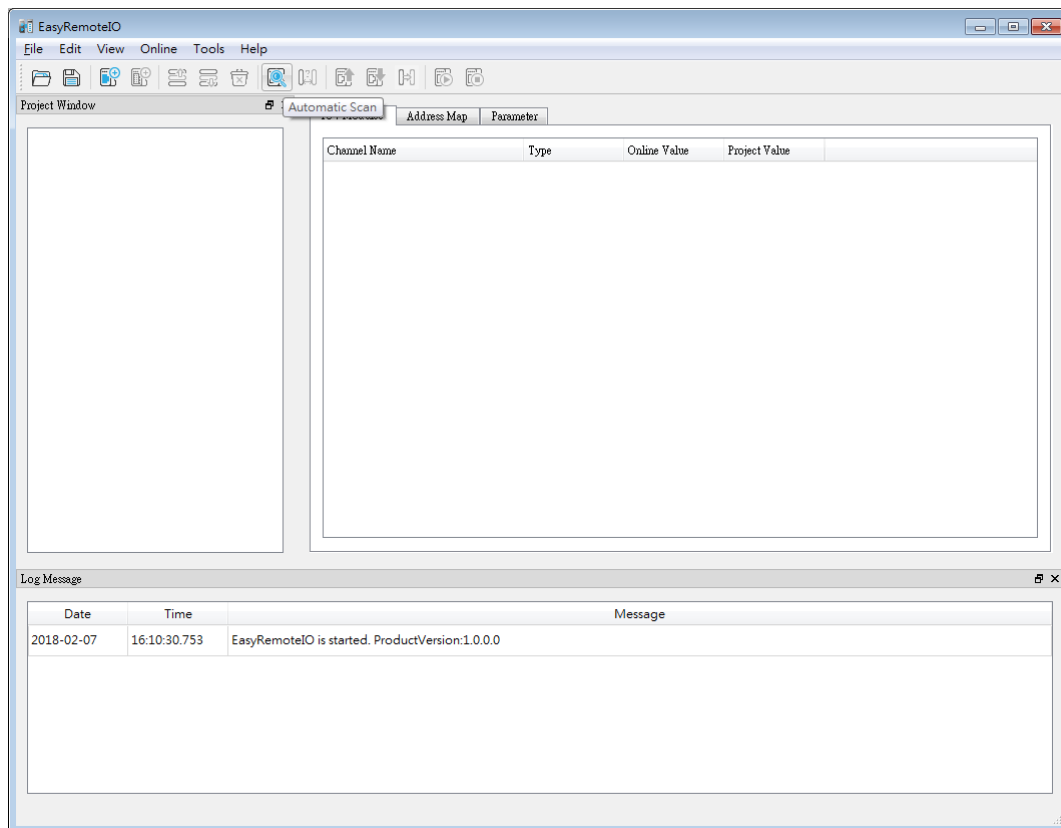
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1. Overview

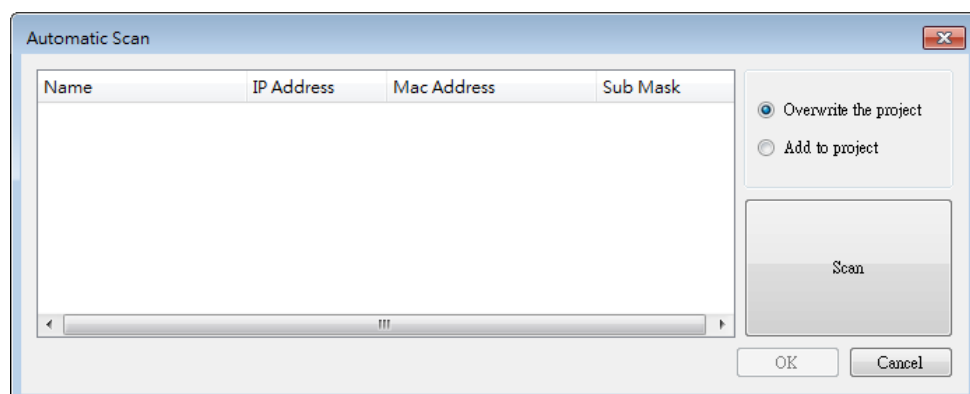
EasyRemotelIO is a tool for users to set up Weintek iR-ETN. In EasyRemotelIO, users can set iR-ETN's IP address, configure parameters, monitor or modify values. In EasyRemotelIO, users who are using EasyBuilder Pro, CODESYS, or EtherNet/IP devices can also export files needed for establishing connection with iR-ETN.

2. Quick Start

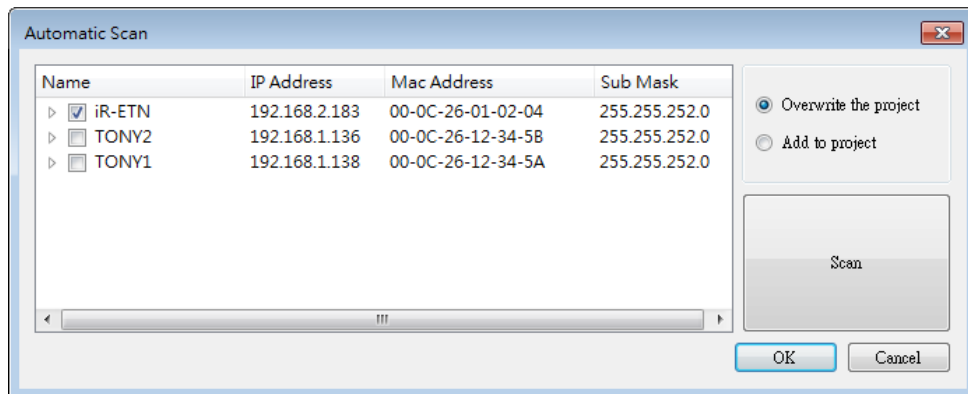
1. Launch EasyRemotelIO, click on [Automatic Scan].



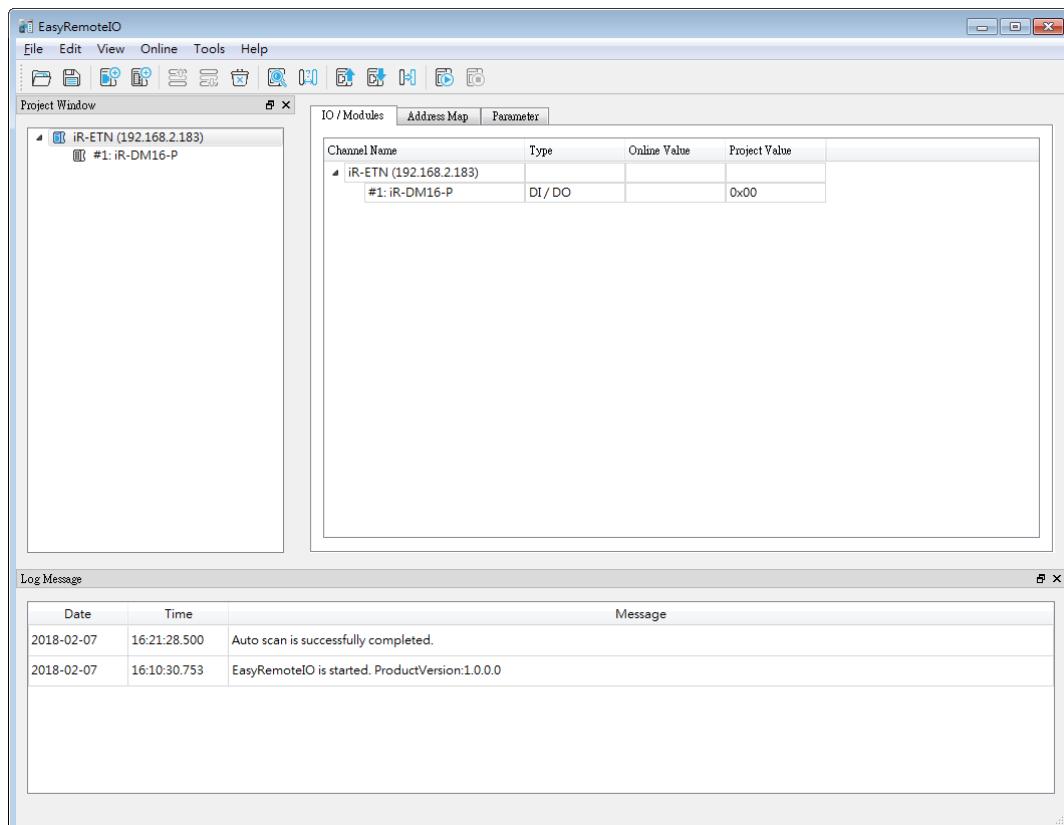
2. Select [Overwrite the project], and click [Scan]. The default IP of iR-ETN is 192.168.0.212. Please make sure the PC is in the same domain: 192.168.0.*.*.



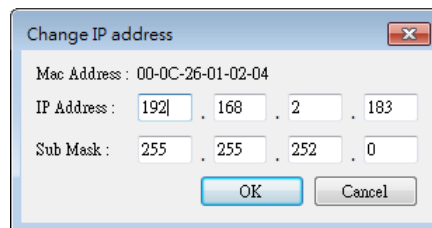
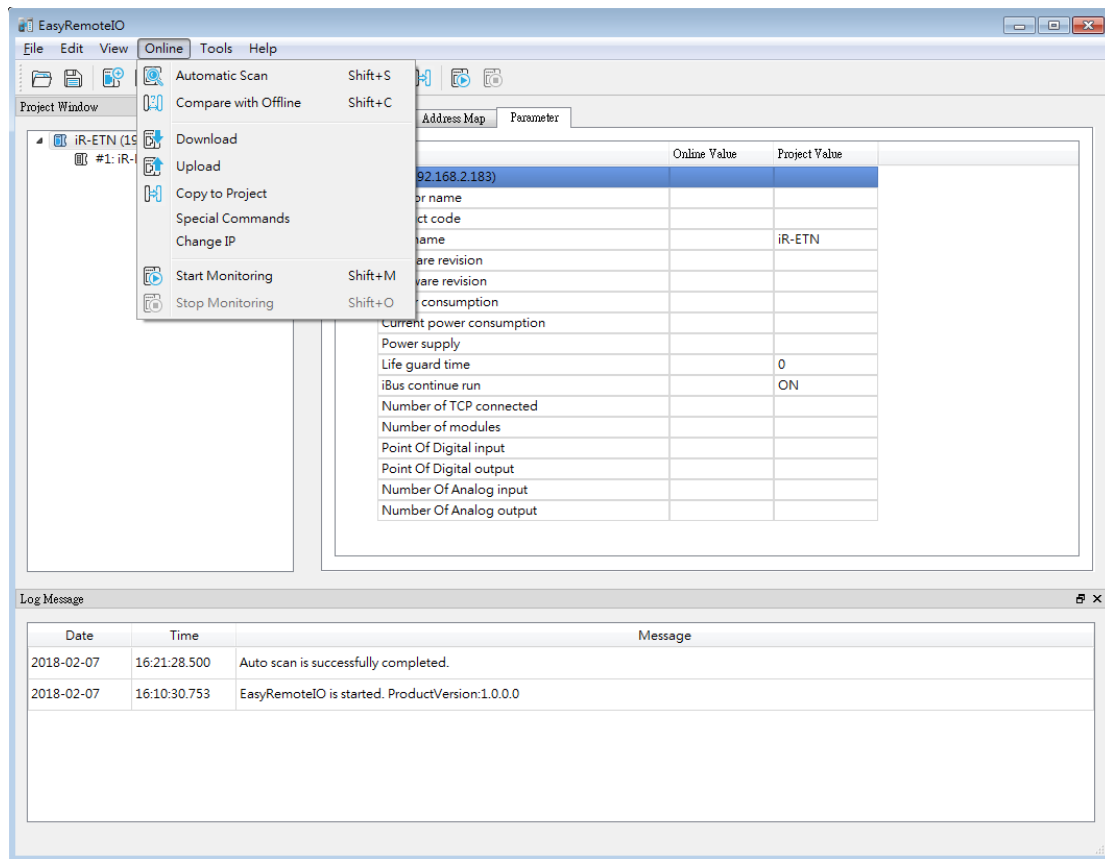
- The iR-ETN can be found in Automatic Scan window. Select the iR-ETN you want to modify and click OK.



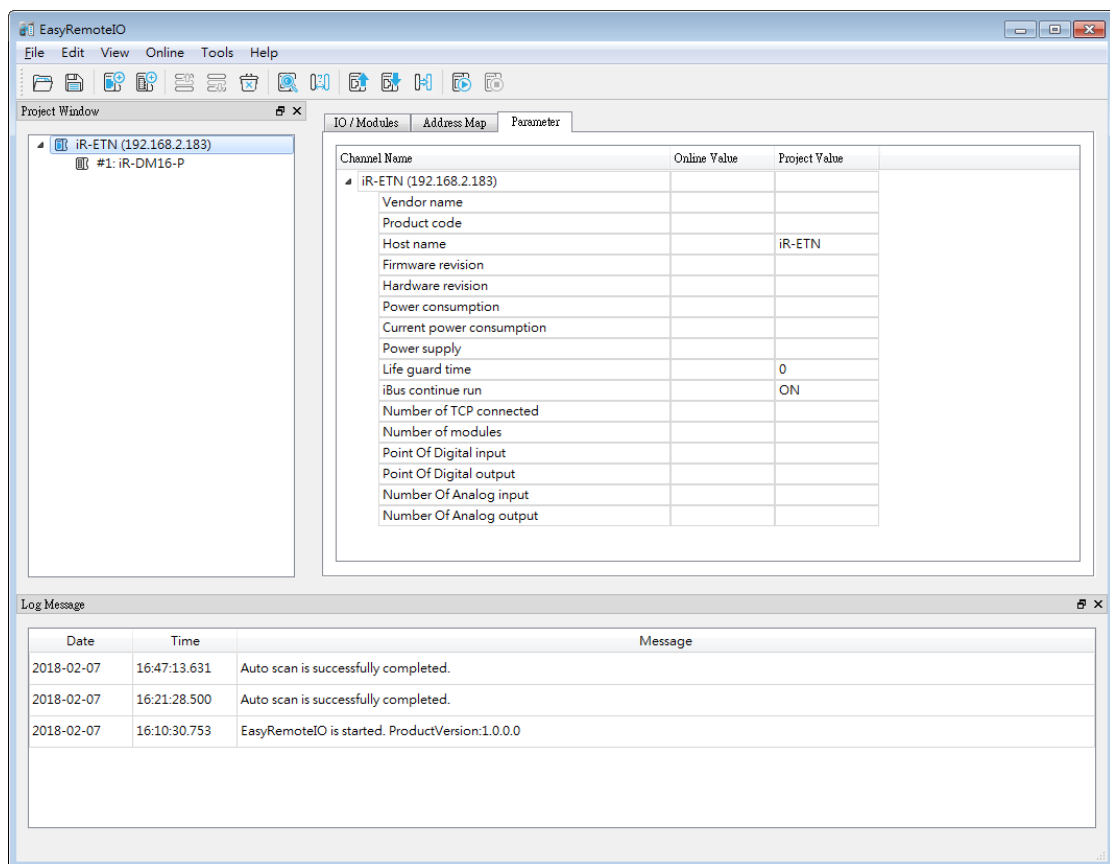
- The iR-ETN and the module's information will be shown as below.



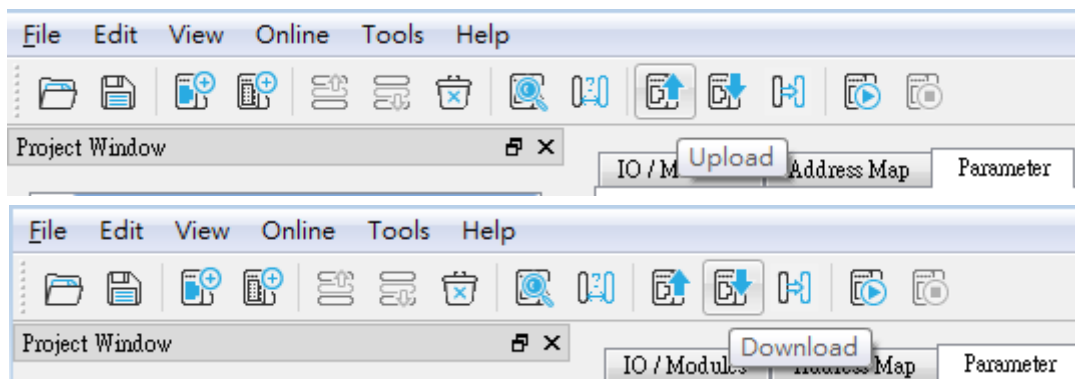
- Select [Change IP] in [Online] to change the IP address of iR-ETN and then click OK.



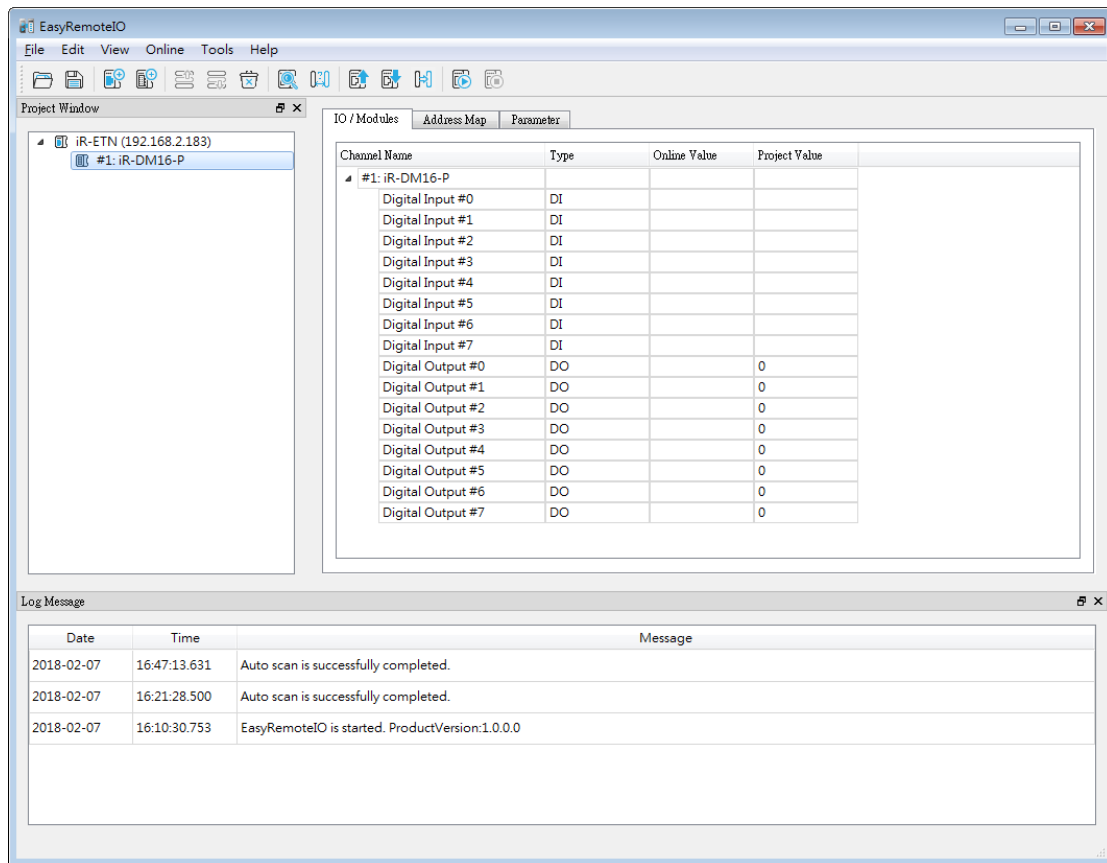
- In the Project Window, select iR-ETN and then go to [Parameter] tab in the right column. Here you can change the related parameters of iR-ETN. The actual value of iR-ETN is in the [Online Value] column. The new value should be entered in the [Project Value] column.



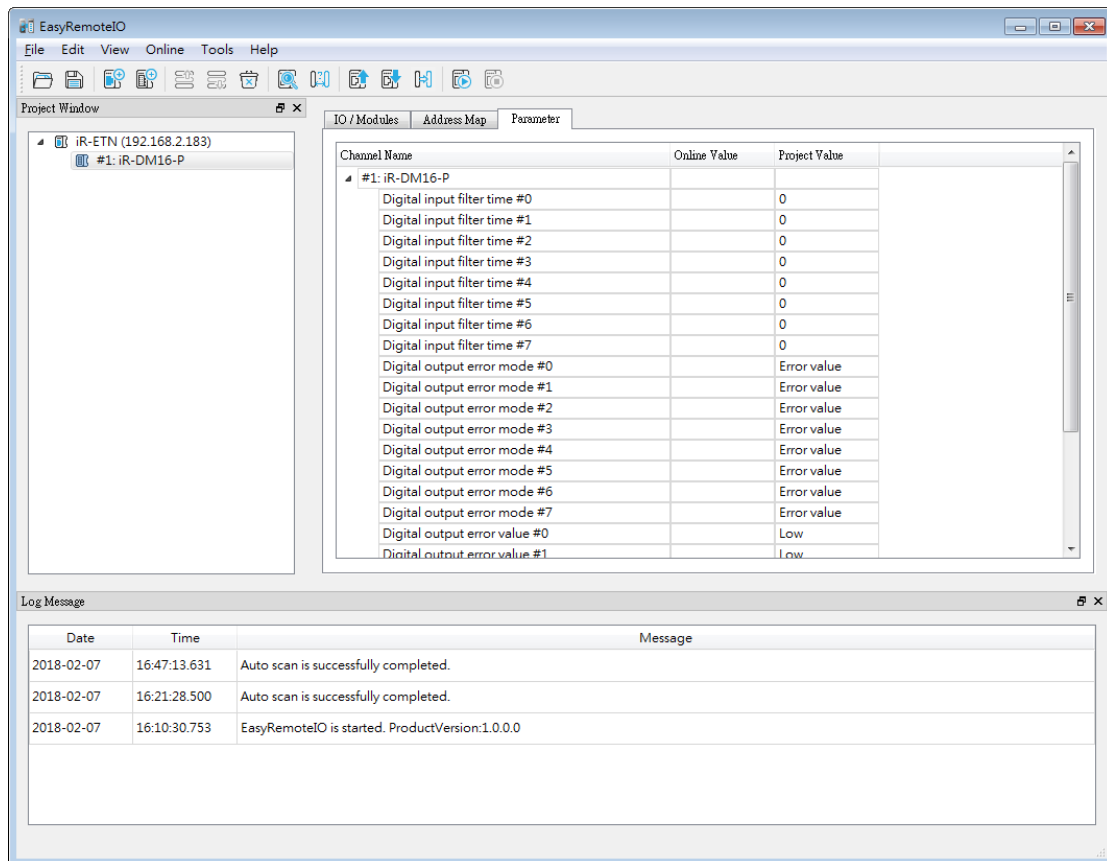
- Click [Upload] to read the data from iR-ETN and show in EasyRemoteIO.
Click [Download] to write the data in EasyRemoteIO to iR-ETN.



- Select iR-ETN's module in Project Window. In the IO/Modules tab you can read/write inputs and outputs value. Click [Download] to write the data from EasyRemoteIO to iR-ETN.



9. The Parameter tab allows users to change the parameters of the modules.



3. Settings

Edit

Add

Network Coupler: Add network coupler manually.

Module: Add module manually.

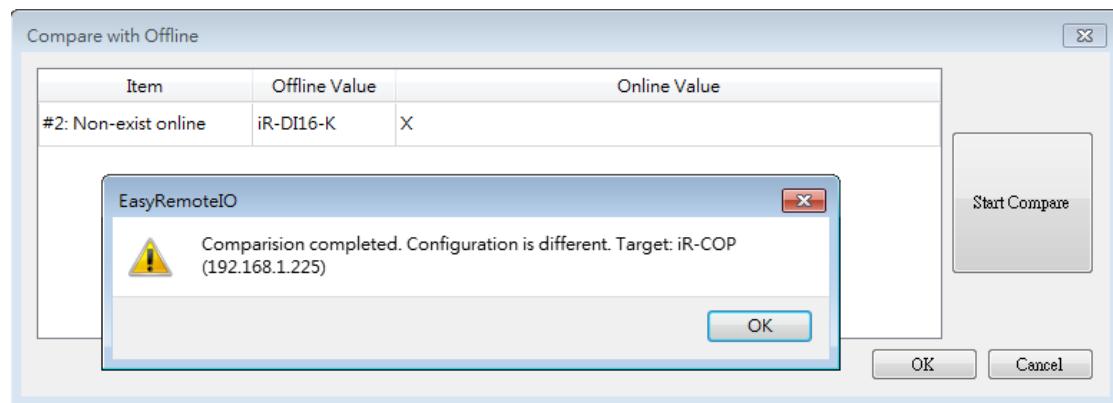
Online

Automatic Scan

Scan all the iR-ETN in the same domain.

Compare with Offline

Check whether the devices in EasyRemoteIO exist in the same domain.



Download

Write the value from EasyRemoteIO's Project Value column to the iR-ETN.

Upload

Read the value from iR-ETN and show in EasyRemoteIO's Online Value column.

Copy to project

Read the value from iR-ETN and show in EasyRemoteIO's Online Value and Project Value columns.

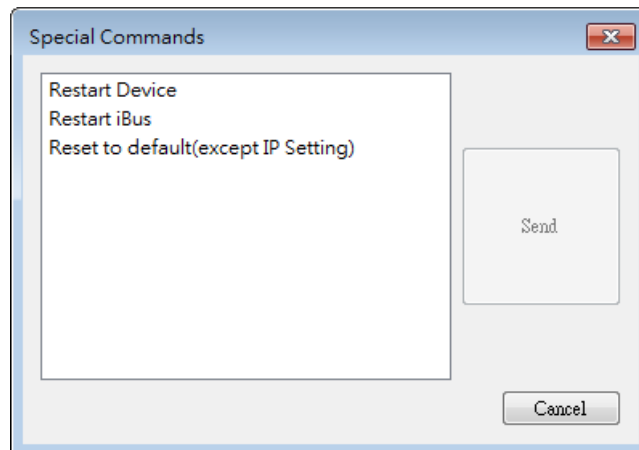
Channel Name	Type	Online Value	Project Value
#1: iR-DM16-P			
Digital Input #0	DI	0	
Digital Input #1	DI	0	
Digital Input #2	DI	0	
Digital Input #3	DI	0	
Digital Input #4	DI	0	
Digital Input #5	DI	0	
Digital Input #6	DI	0	
Digital Input #7	DI	0	
Digital Output #0	DO	0	0
Digital Output #1	DO	0	0
Digital Output #2	DO	0	0
Digital Output #3	DO	0	0
Digital Output #4	DO	1	1
Digital Output #5	DO	0	0
Digital Output #6	DO	0	0
Digital Output #7	DO	0	0

Special Commands

Restart Device: Restart iBus and module.

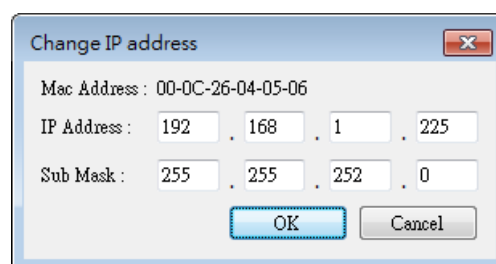
Restart iBus: Restart iBus only.

Reset to default (except IP setting): Reset all the parameters, except IP settings, to default.



Change IP

Change the IP address of iR-ETN.



Start Monitoring

Start monitoring iR-ETN. (Read only)

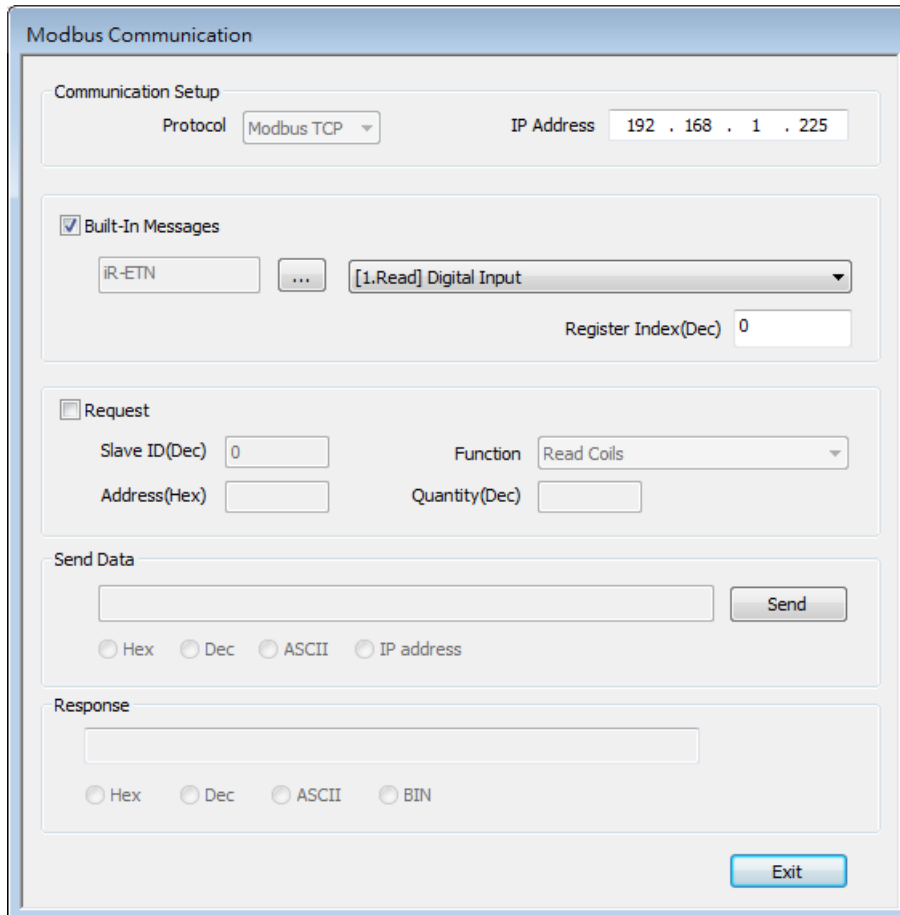
Stop Monitoring

Stop monitoring iR-ETN.

Tools

Modbus

Allows users to run an online MODBUS TCP/IP client on the PC.



The screenshot shows the 'Modbus Communication' window with the following settings:

- Communication Setup:** Protocol is 'Modbus TCP', IP Address is '192 . 168 . 1 . 225'.
- Built-In Messages:** Checked. iR-ETN is selected in the dropdown, and the Register Index(Dec) is '0'.
- Request:** Unchecked. Slave ID(Dec) is '0', Function is 'Read Coils', Address(Hex) is empty, and Quantity(Dec) is empty.
- Send Data:** A text input field is empty, and the 'Send' button is visible. Radio buttons for Hex, Dec, ASCII, and IP address are present.
- Response:** A text input field is empty, and radio buttons for Hex, Dec, ASCII, and BIN are present.
- Exit:** A button is located at the bottom right.

4. Analog Module

Displaying Channel Value

All channel values are displayed when clicking the [Start Monitoring] button in the IO/Modules tab.

IO / Modules			
Channel Name	Type	Online Value	Project Value
▼ #3: iR-AI04-VI			
Analog Input #0	AI	0	
Analog Input #1	AI	0	
Analog Input #2	AI	0	
Analog Input #3	AI	0	

Writing Channel Value

All channel values are displayed when clicking the [Start Monitoring] button in the IO/Modules tab.

Specify [Project Value] and then click [Download], the specified value will be written into [Online Value].

IO / Modules			
Channel Name	Type	Online Value	Project Value
▼ #2: iR-AQ04-VI			
Analog Output #0	AO	10000	10000
Analog Output #1	AO	0	0
Analog Output #2	AO	0	0
Analog Output #3	AO	0	0

Configuring Parameters

Click [Upload All] to read all parameters which are displayed in the Parameter tab.

IO / Modules		
Channel Name	Online Value	Project Value
▼ #3: iR-AI04-VI		
Product Code	0x0425	
Firmware Revision	1.0.0.0	
Hardware Revision	1.0.0.0	
Power Consumption	0.35 W	
Point of Digital Input	0	
Point of Digital Output	0	
Number of Analog Input	4	
Number of Analog Output	0	
Input Mode #0	Close	Close
Input Mode #1	Close	Close
Input Mode #2	Close	Close
Input Mode #3	Close	Close
Input Scale Range Upper Limit #0	32000	32000
Input Scale Range Upper Limit #1	32000	32000

Revise channel parameter under [Project Value].

Channel Name	Online Value	Project Value
▼ #3: iR-AI04-VI		
Product Code	0x0425	
Firmware Revision	1.0.0.0	
Hardware Revision	1.0.0.0	
Power Consumption	0.35 W	
Point of Digital Input	0	
Point of Digital Output	0	
Number of Analog Input	4	
Number of Analog Output	0	
Input Mode #0	Close	±10V
Input Mode #1	Close	Close
Input Mode #2	Close	Close
Input Mode #3	Close	Close
Input Scale Range Upper Limit #0	32000	32000
Input Scale Range Upper Limit #1	32000	32000

Click [Download] to write from [Project Value] into [Online Value].

Channel Name	Online Value	Project Value
▼ #3: iR-AI04-VI		
Product Code	0x0425	
Firmware Revision	1.0.0.0	
Hardware Revision	1.0.0.0	
Power Consumption	0.35 W	
Point of Digital Input	0	
Point of Digital Output	0	
Number of Analog Input	4	
Number of Analog Output	0	
Input Mode #0	±10V	±10V
Input Mode #1	Close	Close
Input Mode #2	Close	Close
Input Mode #3	Close	Close
Input Scale Range Upper Limit #0	32000	32000
Input Scale Range Upper Limit #1	32000	32000

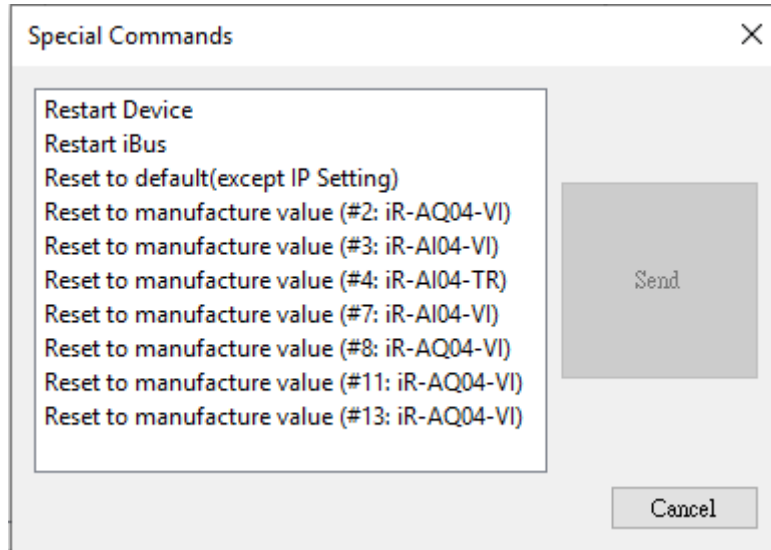
※For more information about channel parameters, please see chapter 6 in UM018013E_iR-Axxx-VI_UserManual_20190401_eng

※Settings in the Parameter tab are written into the analog module's registers.
A faster way to start analog module is to configure the parameters using EasyRemoteIO and then import the settings on the coupler.

Initializing Module

[Online] » [Special Commands]

Select the analog modules to be initialized, and then click [Send] to restore factory default.

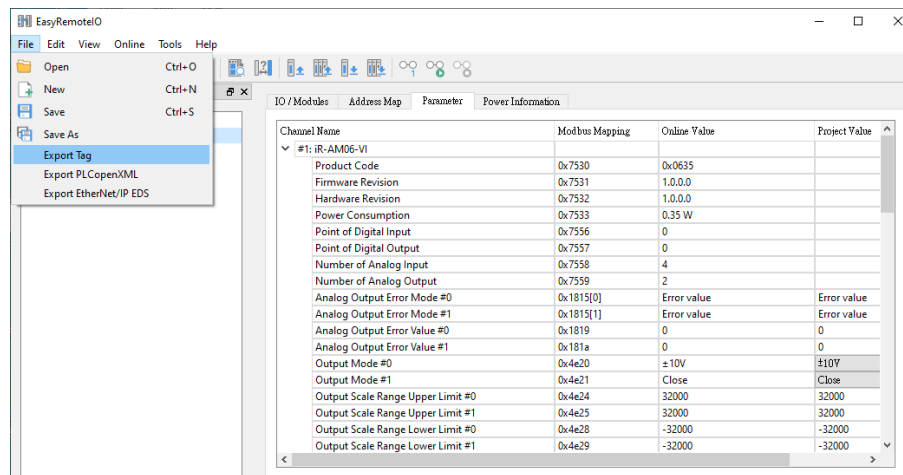


5. Export

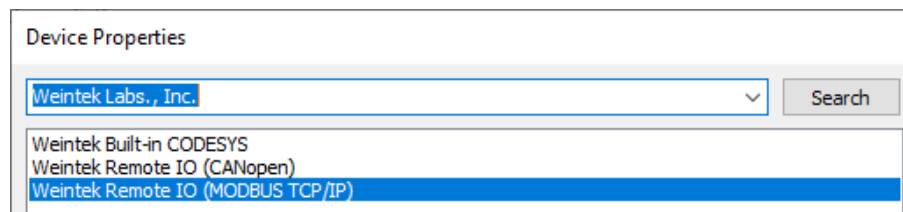
Export Tag

When Weintek Remote IO (MODBUS TCP/IP) driver is selected in EasyBuilder Pro, selecting [Export Tag] in EasyRemoteIO can help users quickly build iR-ETN related parameters.

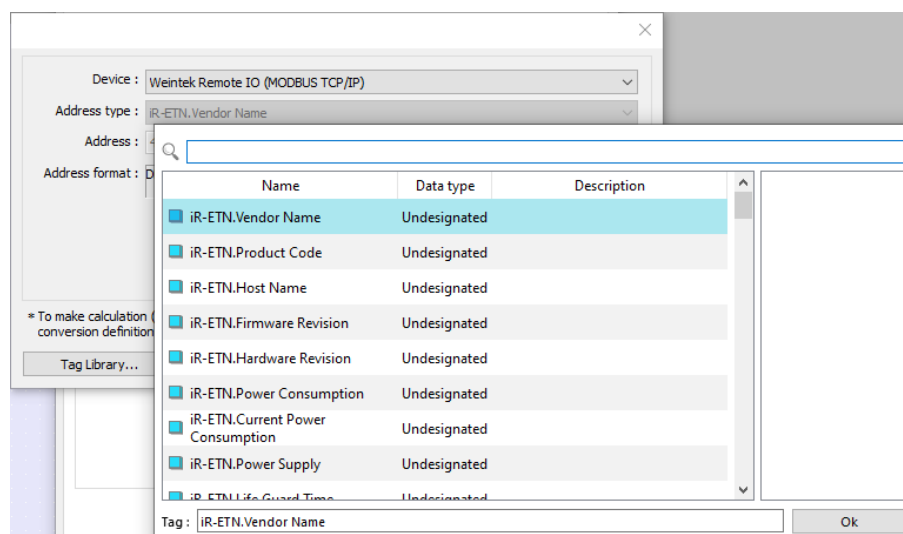
1. Launch EasyRemoteIO and select [File] » [Export Tag].



2. Launch EasyBuilder Pro and select [System Parameters] » [New Device] » [Weintek Remote IO(MODBUS TCP/IP)].



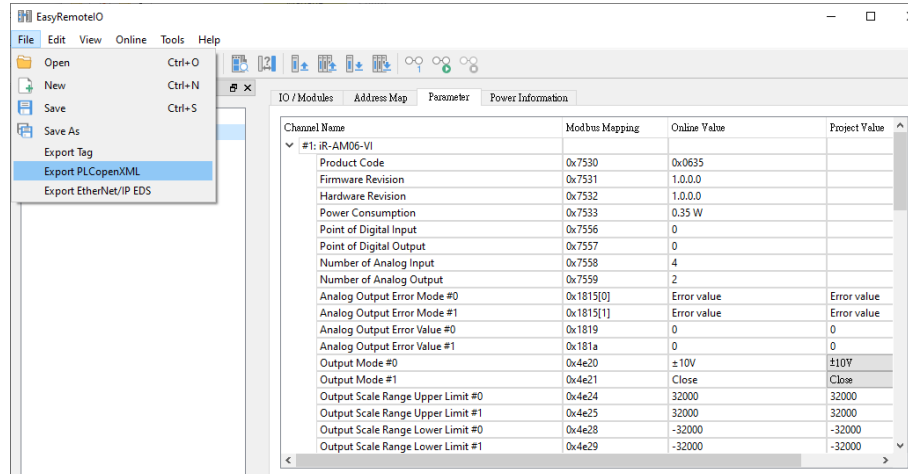
3. After importing tags, information about iR-ETN can be found when creating an object.



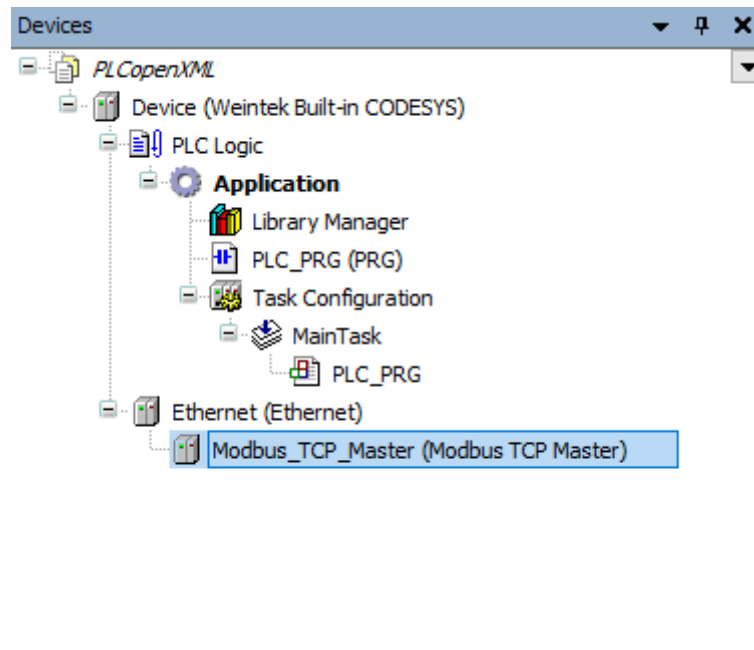
Export PLCopenXML

Exporting PLCopenXML file can help users quickly build communication parameters when establishing connection between a CODESYS device and an iR-ETN.

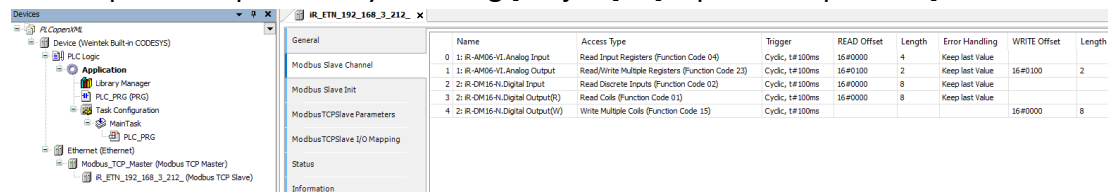
1. Launch EasyRemoteIO and select [File] » [Export PLCopenXML].



2. Launch CODESYS, add [Ethernet] » [Modbus_TCP Master] device.



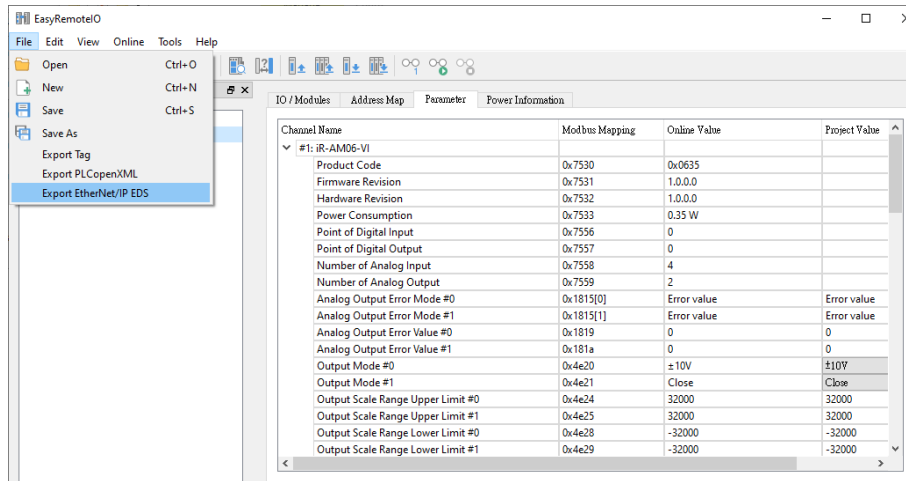
3. Import PLCopenXML by selecting [Project] » [Import PLCopenXML].



Export EtherNet/IP EDS

Exporting EtherNet/IP EDS file can generate Electronic Data Sheets of iR-ETN.

1. Launch EasyRemoteIO and select [File] » [Export EtherNet/IP EDS].



2. Import EtherNet/IP EDS in the user interface of EtherNet/IP device. Please see [iR-ETN EtherNet/IP Connection Guide](#) for more information.