

# KYIO-L Config Software Manual

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## **Foreword**

This manual primarily provides guidance on utilizing the KYIO-L Config software, which is designed for configuring the KYIO-L series I/O products.

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## Precautions

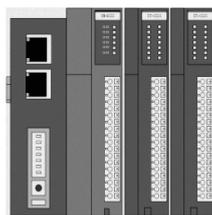
1. **Module Operations:** All coupler modules support serial port functionality for uploading, downloading, and data monitoring. MODBUS TCP communication uniquely allows simultaneous uploading, downloading, and monitoring via both serial and network ports. Ensure that the MicroUSB data cable used is capable of both data transmission and power supply functionalities; certain mobile phone charging cables that only supply power are unsuitable for these operations.
2. **Digital Input Module (DI):** The DI module introduces the concept of sub-modules, commonly configured with multiple channels to handle digital Boolean signals. Sub-modules are dedicated to storing input count values and clearing count values for each channel.
3. **Power Module:** A separate power module is unnecessary unless the aggregate power consumption of all I/O modules surpasses the output power capacity of the coupler module. In such instances, an additional power module becomes mandatory.
4. **Terminal Module:** This module is essential for stabilizing the bus signal.
5. **Keyboard Shortcuts:**
  - Ctrl+C: Copy I/O modules
  - Ctrl+V: Paste I/O modules
  - Delete: Remove I/O modules
  - Ctrl+S: Save configuration project
  - Ctrl+M: Export address table
  - F1: Access help documentation for viewing I/O technical parameters

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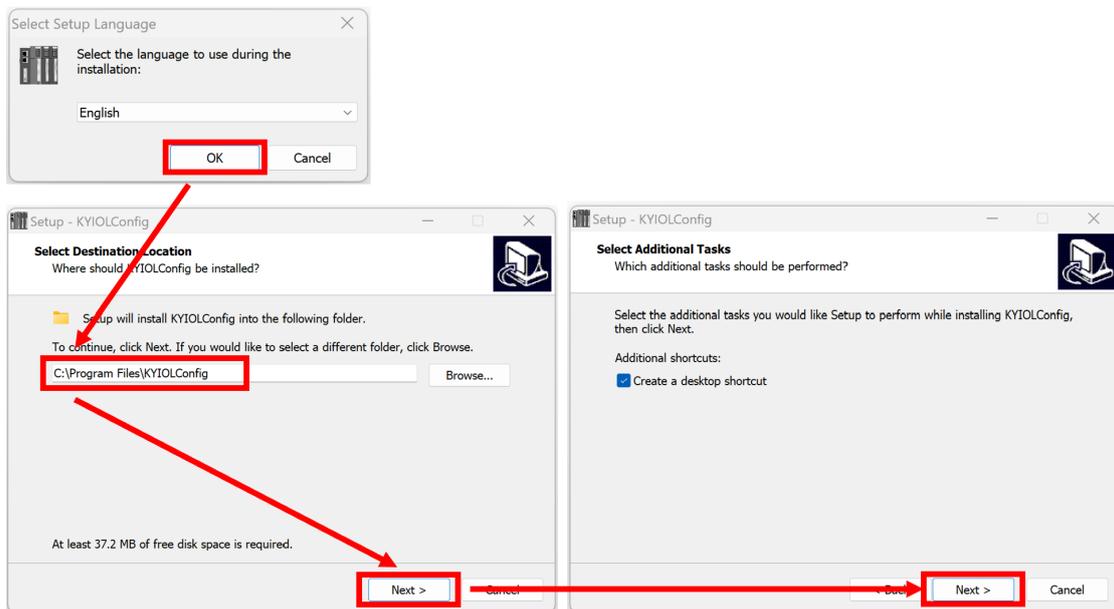
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# 1. Software installation

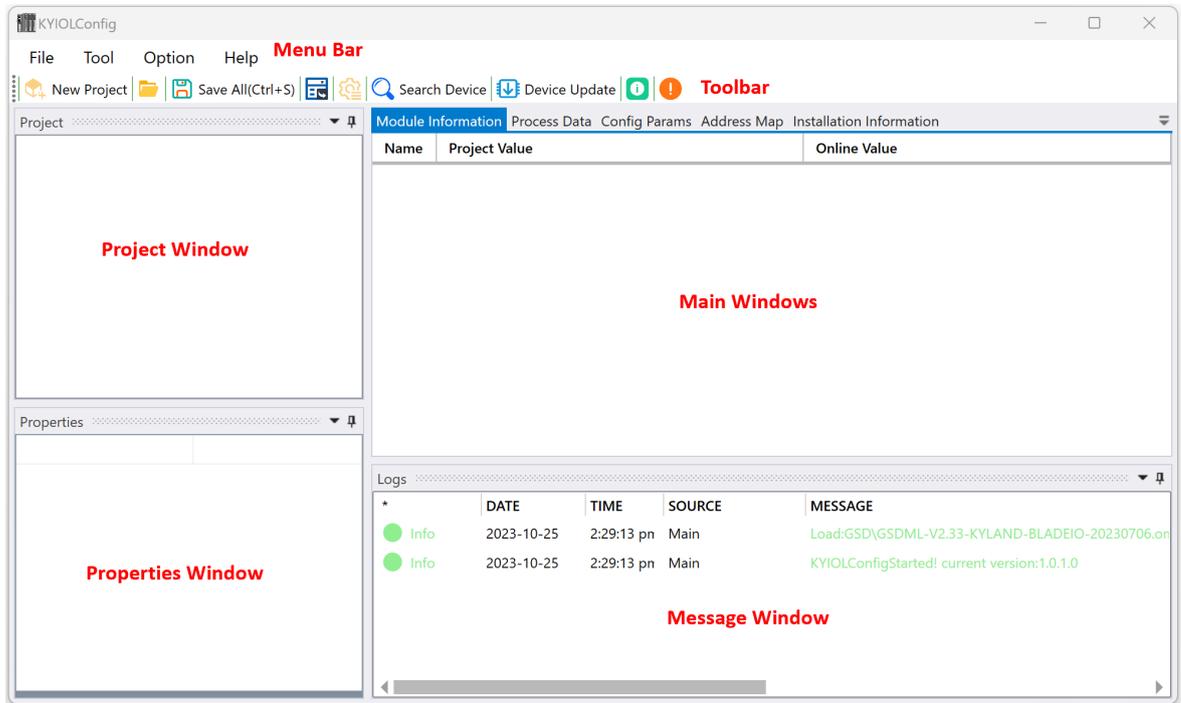
Beijing Kyland Technology Co., Ltd. provides customers with KYIO-L Config V xxxx, a full-version installation file compatible with the .NET 4.0 environment. After receiving the software, double-click the installation icon and follow the sequence: "Install" > "OK" > "Next" > "Install". Optionally, you can create a desktop shortcut, and upon completion, a "KYIO-L Config" shortcut will appear on your desktop.



KYIO-L Config V1.0.1.0  
20230706 (Fully with  
.NET4.0).exe



## 2. Interface introduction



- **Menu Bar:** Main menu of KYIO-L Config software
- **Toolbar:** Set of commonly used functions
- **Project Window:** Hierarchical tree view of the active project
- **Properties Window:** Displays particulars of the selected item. For example, for Coupler Modules it shows module name, number, description, device version, etc.
- **Main Window:**
  - ◆ **Basic Information:** View module specifications like name, number, hardware and software versions, power consumption, and manufacturer.
  - ◆ **Process Data:** Utilized for online channel data monitoring
  - ◆ **Parameter Configuration:** Modifiable module parameters
  - ◆ **Address Table:** List of addresses occupied by the I/O module
  - ◆ **Installation Information:** Displays module details such as description, current consumption, size, remaining power, and product image.
- **Message Window:** Outputs real-time logs covering operations like new project creation, uploading, downloading, and configuration modification.

## 2.1 Main menu

### ◇ Documents

Menu	Submenu	Description
project	New Construction	Create new project
	Open Project	Open a saved project
	Save all	Save current project
	Save as	Save the current project as a new project
quit		Close project

### ◇ Tool

Menu	Description
search device	Pop up a new window for MODBUS communication search device
Online upgrade	A new window pops up for coupler module and IO module firmware upgrade

### ◇ Options

Menu	Description
Configuration	Can modify software display language, software interface display color, device library description file path

### ◇ Help

Menu	Description
about	You can view the information of Beijing Kyland Technology Co., Ltd. and the configuration software version number.
exception help	A new window pops up to remind you of abnormal exit. Please install Microsoft patches for versions below WIN7 sp1/XP.

## 2.2 Toolbar

### Menu general shortcut icons



Icon	Name	Menu	Description
	new construction	File-Project-New Project	Create new project
	Open project	File-Project-Open Project	Open a saved project
	Save all	File-Project-Save All	Save current project
	Save as	File-Project-Save As	Save the current project as a new project
	Configuration	Options-Configuration	Can modify software display language, software interface display color, device library description file path
	Search device	Tools-Search Devices	Pop up a new window for MODBUS communication search device
	Firmware upgrade	Tools-Online Upgrade	A new window pops up for coupler module and IO module firmware upgrade
	about	help-about	You can view the information of Beijing Kyland Technology Co., Ltd. and the configuration software version number.
	exception help	help-exception help	A new window pops up to remind you of abnormal exit. Please install Microsoft patches for versions below WIN7 sp1/XP.

### Coupler general shortcut icon

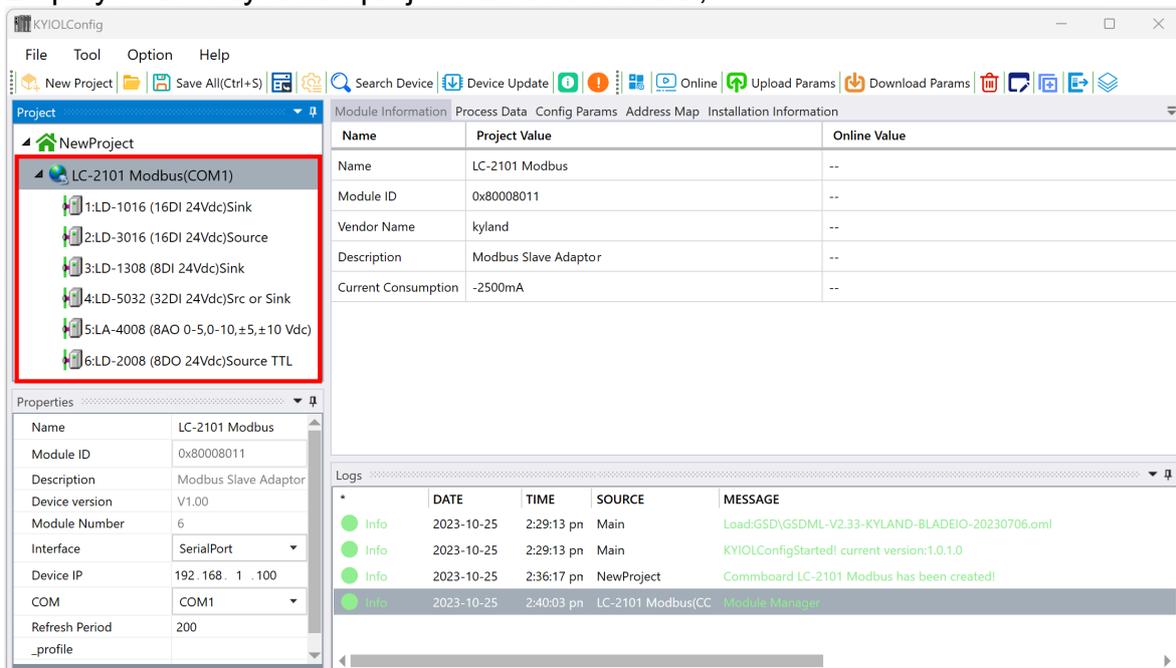


Icon	Name	Menu	Description
	module management	Coupler-Module Management	Add IO module
	online	Coupler-Online	Coupler module and IO module online monitoring
	Download IO parameters	Coupler - Download IO parameters	Download all parameters of the module
	Upload IO parameters	Coupler-upload IO parameters	Upload all parameters of the module
	delete	coupler-remove	Delete the current coupler module
	Rename	Coupler - Rename	Coupler module renamed
	copy	Coupler-Copy	Duplicate coupler and downlink IO module

	Export address table	coupler - export address table	Export the address correspondence between the coupler module and the IO module
	Export document	Coupler - export documentation	Export all information of coupler modules and IO modules, including address tables, module parameters, dimension drawings, and module lists

## 2.3 Project window

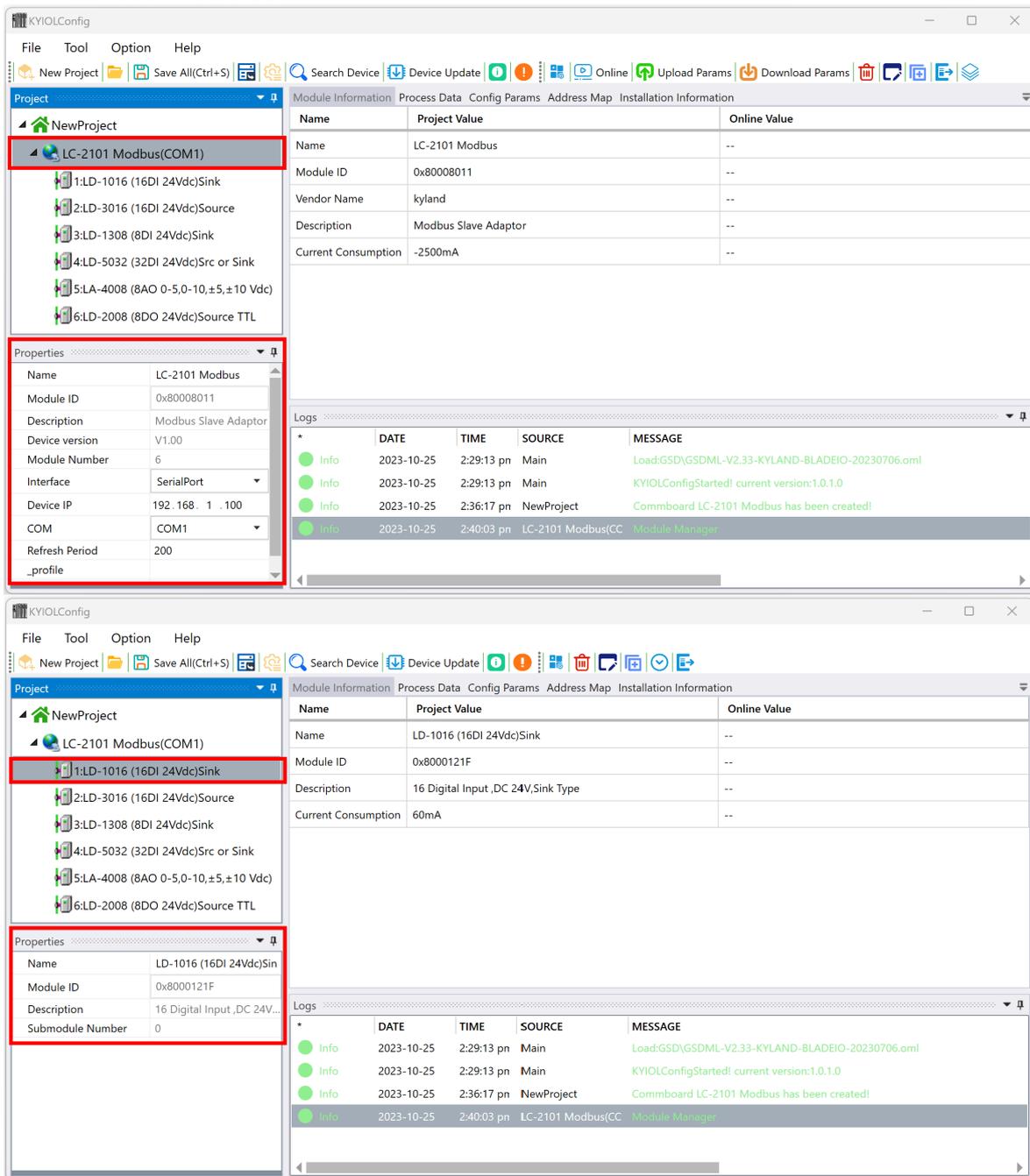
Displays currently active projects in a tree format,



## 2.4 Properties window

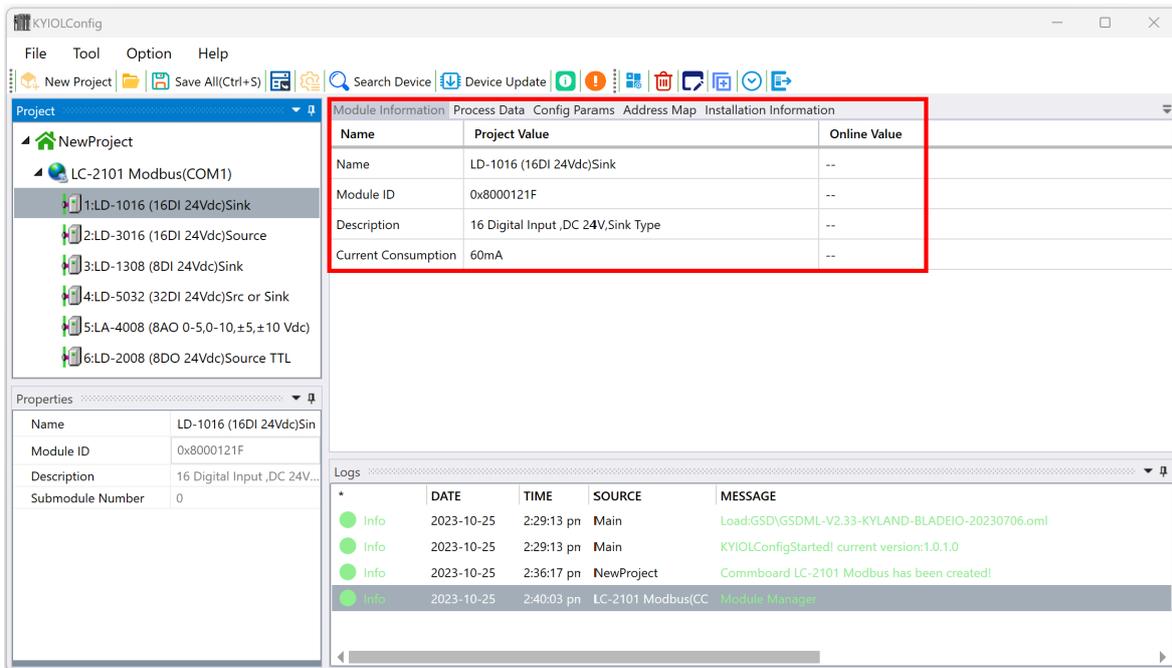
The Properties Window provides a detailed overview of the current item's parameters, which includes:

- **Coupler Module:** Module name, module number, description, device version, total number of modules, interface options, device IP address, serial port number, and online refresh cycle.
- **IO Module:** Module name, module number, description, and number of sub-modules.

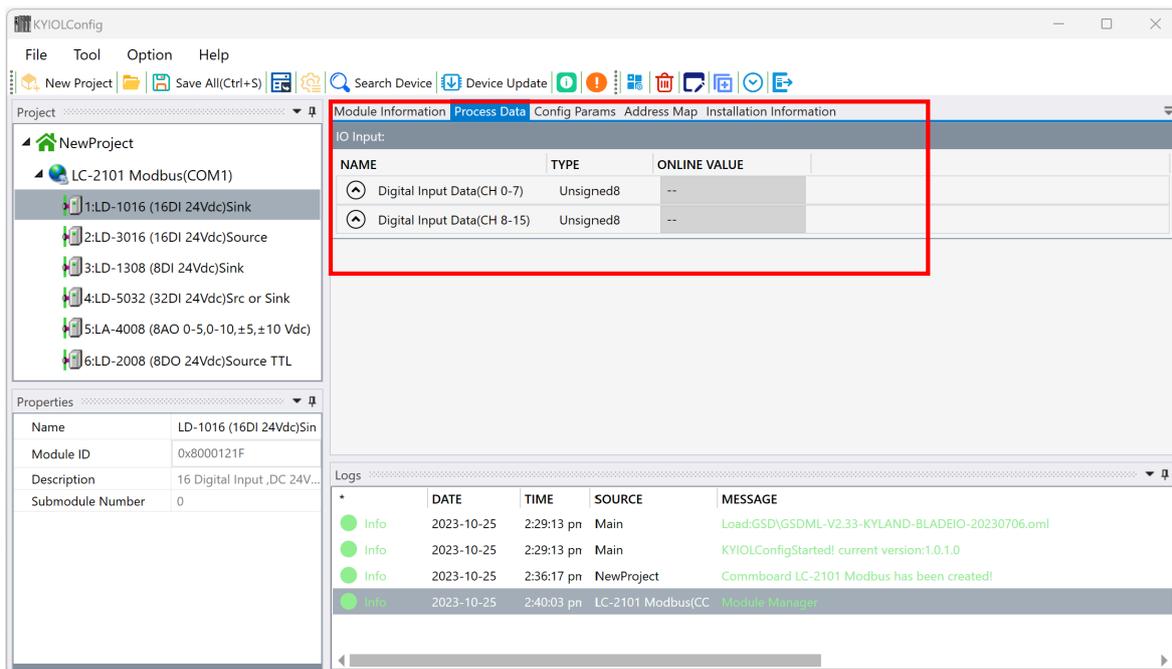


## 2.5 Main window

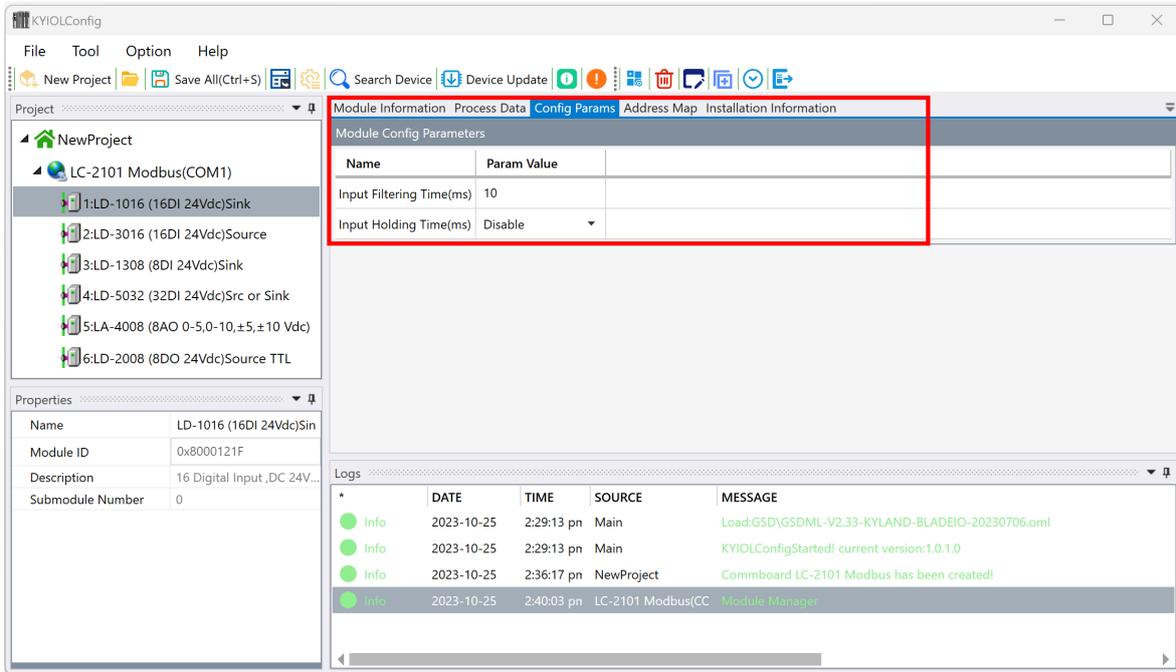
**Basic Information:** The Main Window displays essential details of the KYIO-L series IO module such as the module name, module number, hardware version, software version, description, current consumption, and device manufacturer.



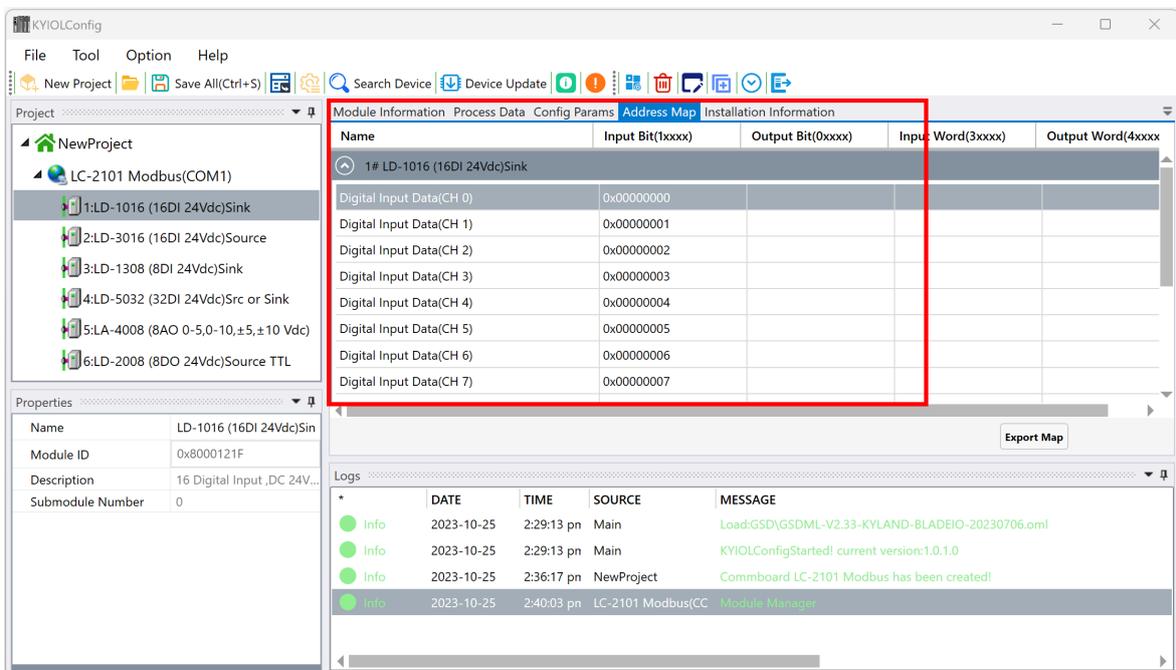
**Process data:** Display IO information for online monitoring of channel data



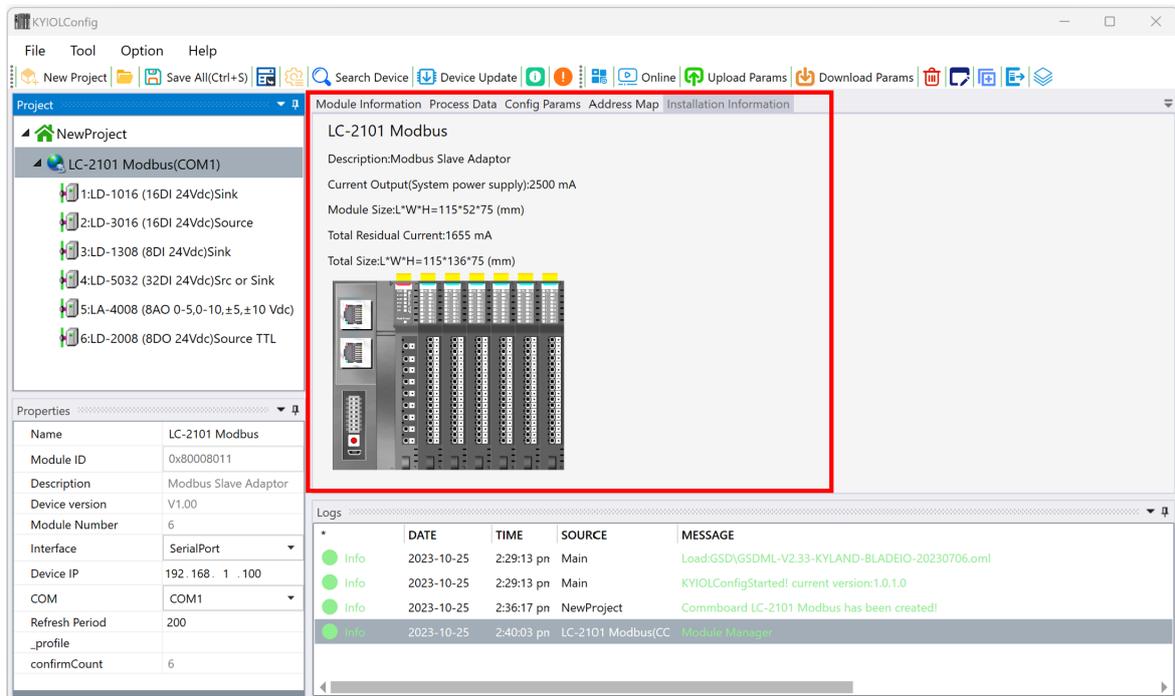
**Configuration parameters:** Display KYIO-L series IO module parameters, modifiable module parameters.



**Address Table:** Displays the address mapping table for the selected KYIO-L series IO module.

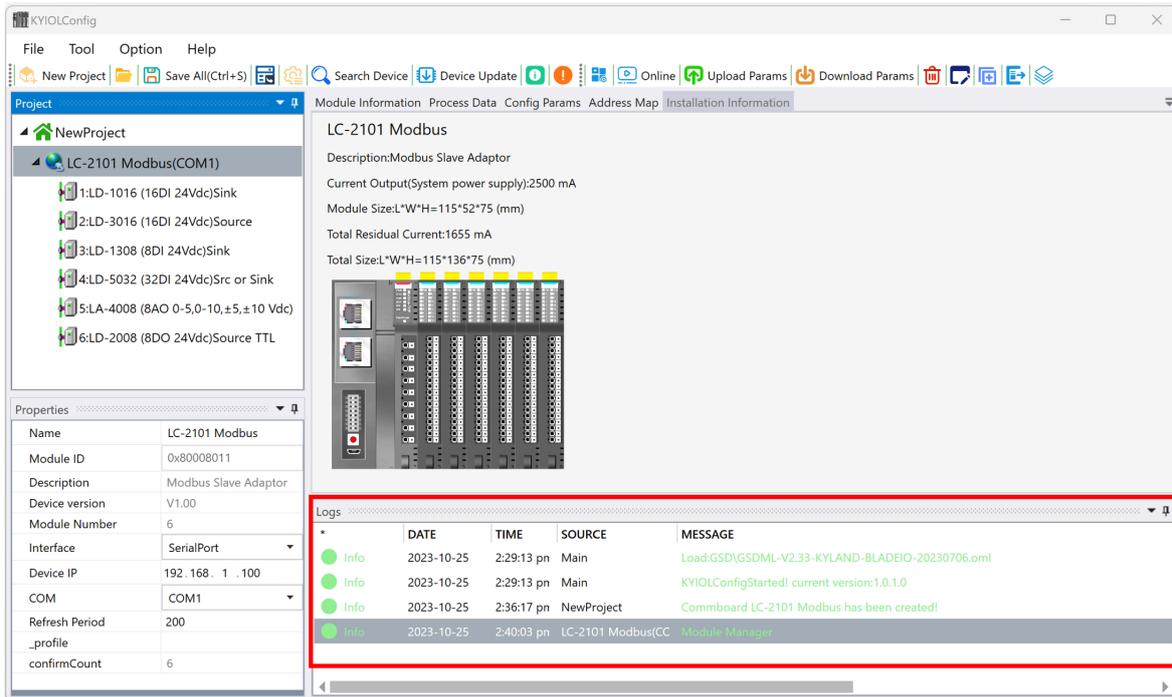


**Installation Information:** Can display KYIO-L series IO module description, current consumption, module size, remaining current, product image.



## 2.6 Message window

The Message Window furnishes real-time operational logs and includes records of new project initiation, uploading, downloading, and modification of configuration parameters. It also displays any copy-paste operations carried out.



## 2.7 Shortcut keys

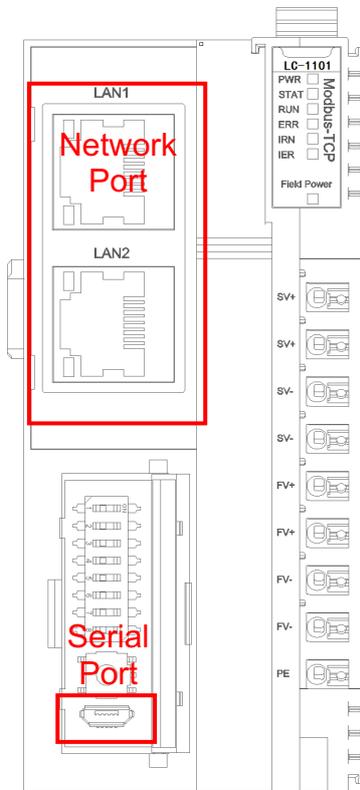
Hot key	Menu	Describe
F1		Enter the help document to view the remote IO hardware manual
Ctrl+C	engineering/coupler-copy	Copy project, KYIO-L series IO module
Ctrl+V	Engineering/Coupler-Paste	Paste project, KYIO-L series IO module
Delete	Project/Coupler-Delete	Delete project and KYIO-L series IO module
Ctrl+S	File-Project-Save All	Save configuration project
Ctrl+M	Coupler-export address table	Export KYIO-L series IO address table

## **3. Software operation**

### **3.1 Function introduction**

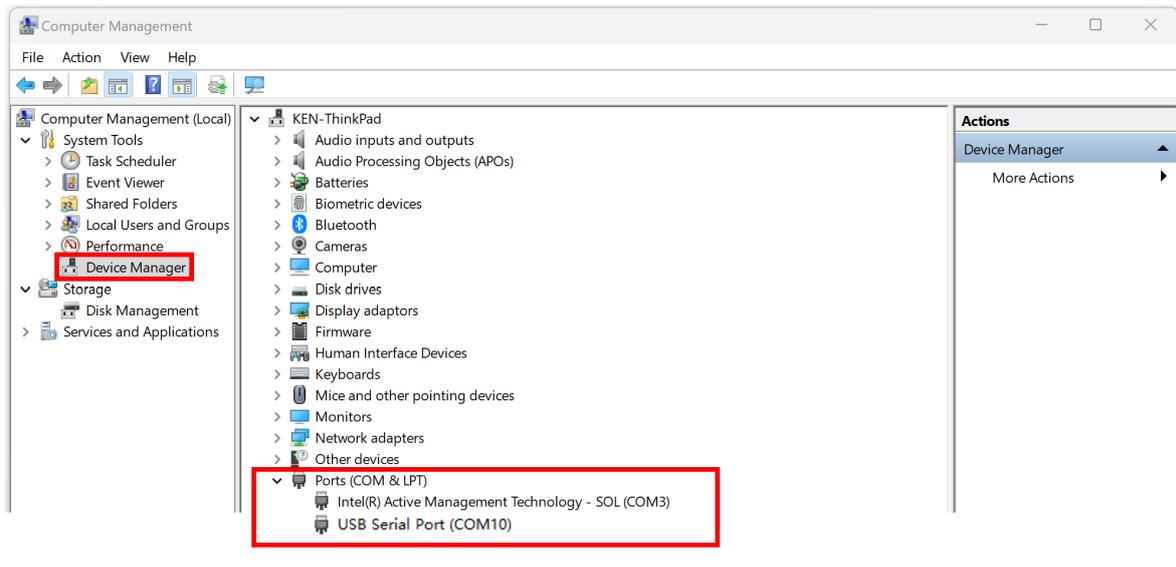
1. Selection
2. Access Coupler Module (LC module) and IO Module (LS module) hardware manuals.
3. Create, save, and open existing projects.
4. Add KYIO-L series IO modules and view their parameters.
5. Configure and modify KYIO-L series IO module parameters.
6. Access the address mapping table and data addresses of LS modules.
7. Conduct online tests on LS modules.
8. Export data, including the KYIO-L series IO address table and engineering documentation.
9. Execute firmware upgrades.

### 3.2 Communication interface



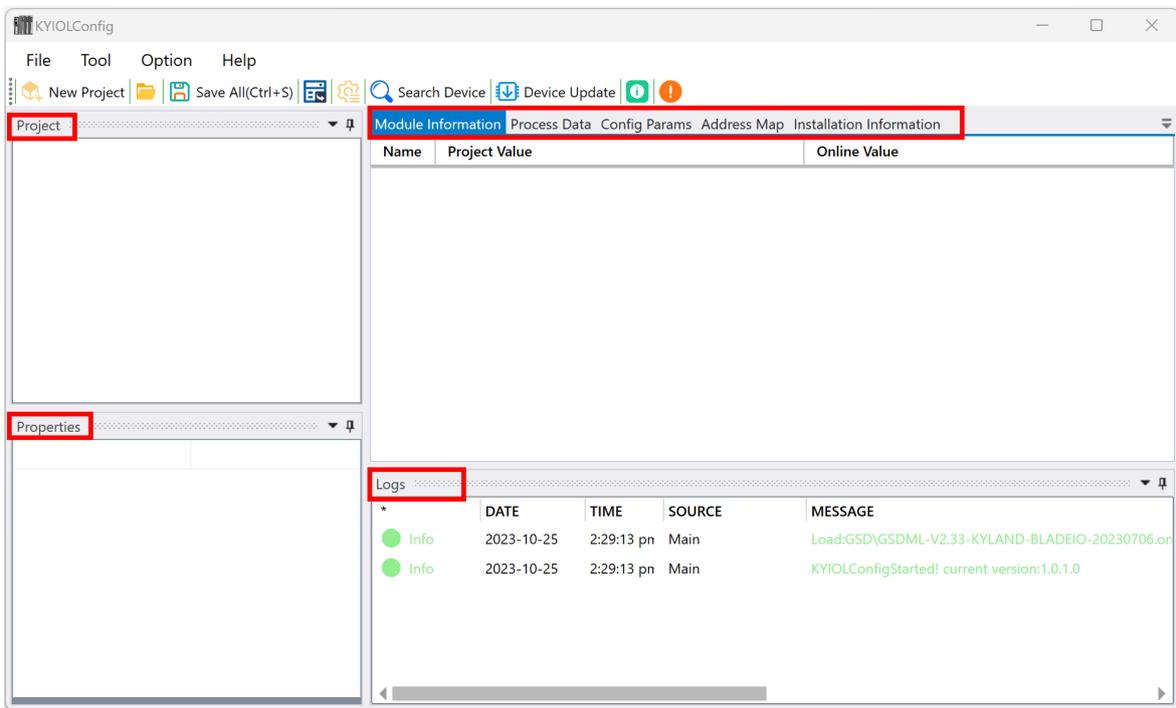
**Network Port:** Communication via the network port is only possible when using the LC-1101 coupler module. Use it to search for the LC-1101 device, modify KYIO-L series IO module parameters, conduct online testing of LS module data, and perform firmware upgrades.

**Serial Port:** For serial communication, a MicroUSB data cable with both data transmission and power supply capabilities is mandatory. Some mobile phone charging cables lack data transmission functionality and are therefore unsuitable for parameter uploads and downloads. After connection, the computer will automatically install the required drivers, and a port number will be displayed in the computer's device manager.

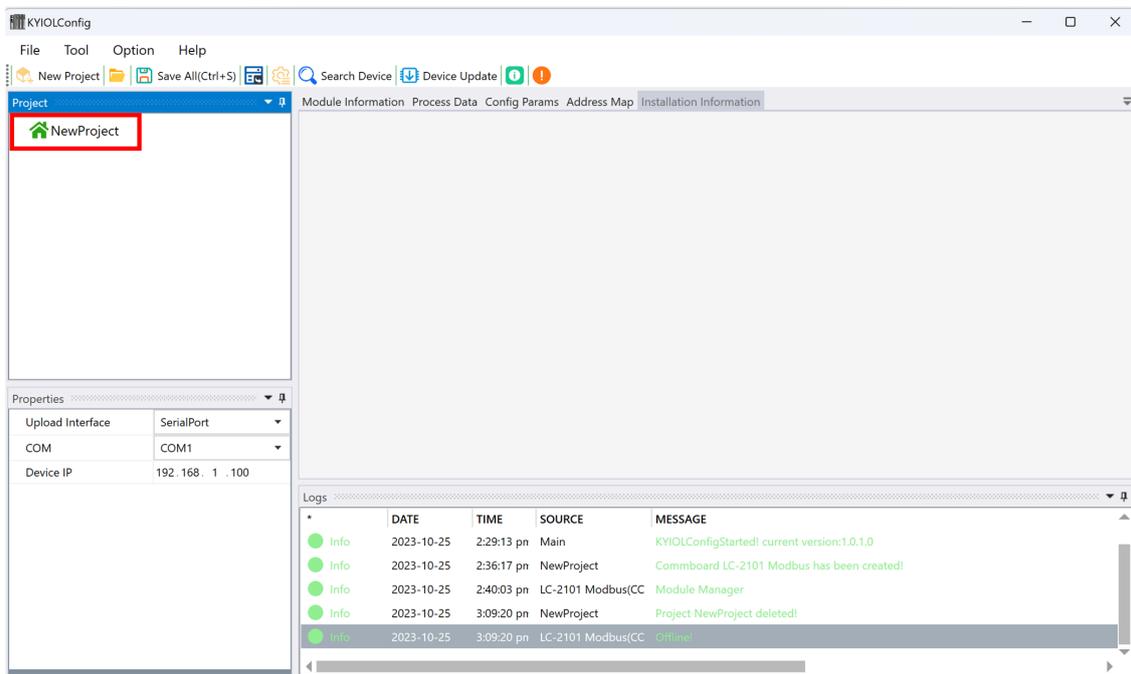
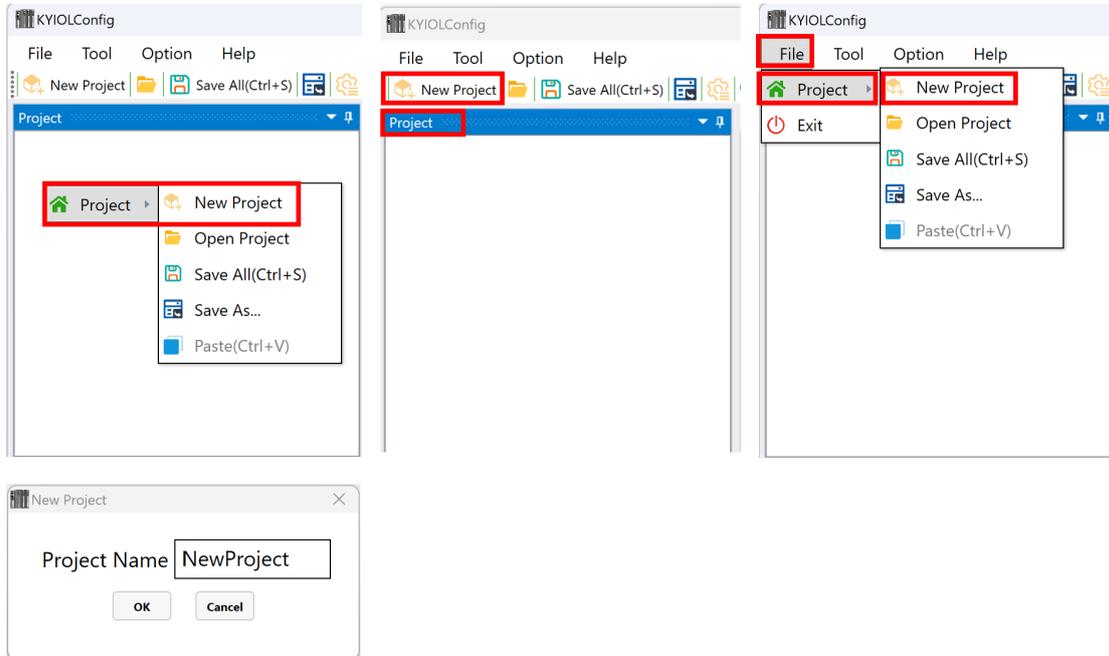


### 3.3 Module selection

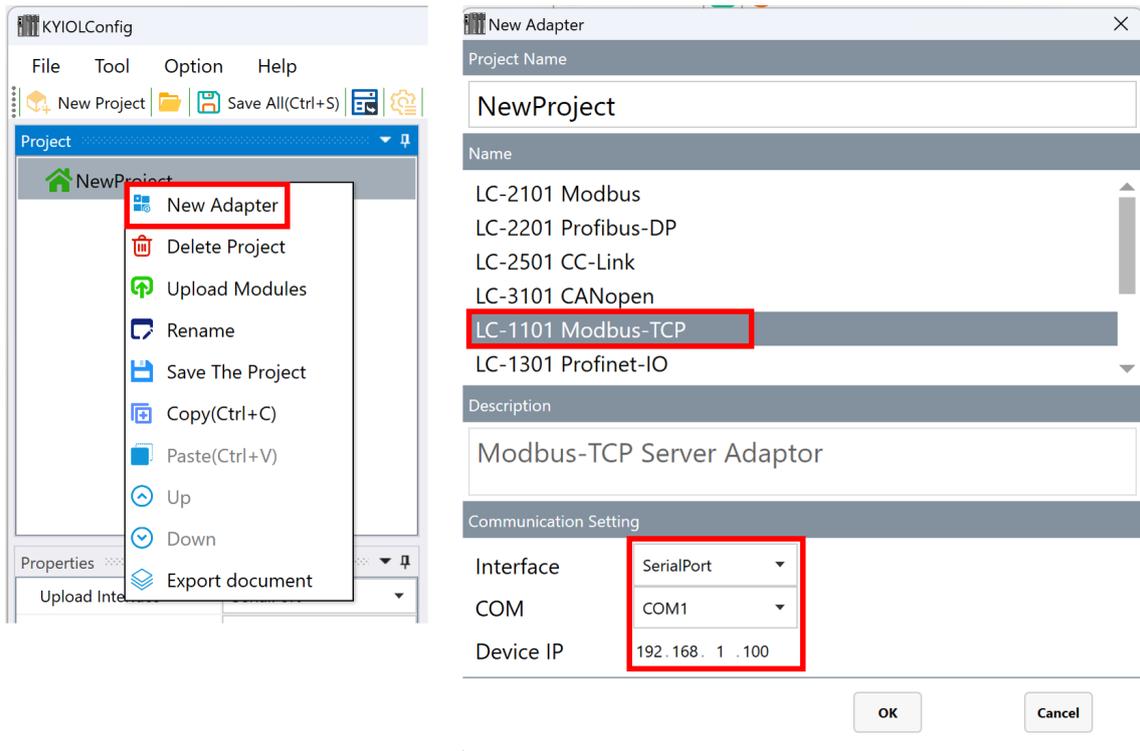
Before selecting a module, you can press the F1 key to access the IO hardware manual. This enables users to make informed decisions about which modules to select. The KYIO-L Config software aids users in module selection and helps determine whether additional power modules are required. Power requirements can also be calculated based on the internal bus power current of the coupler module and the IO module's power consumption.



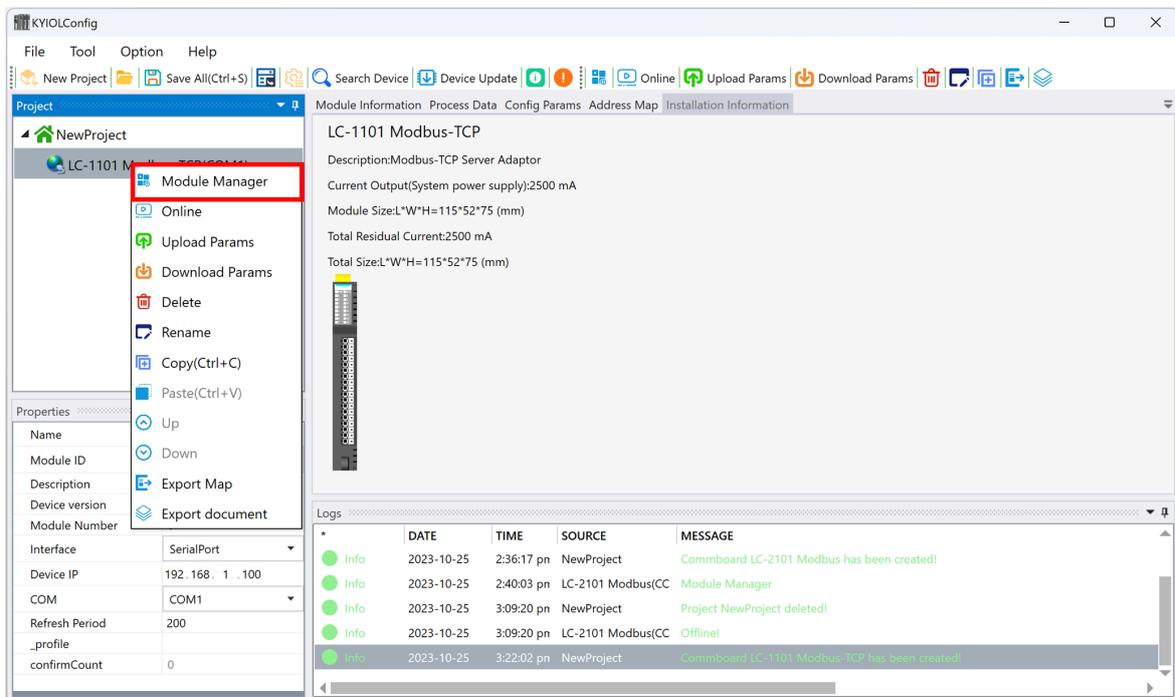
To start a new project, right-click 'Project > New Project' in the project directory, or use the shortcut or menu bar options. Manually enter the project name to proceed.

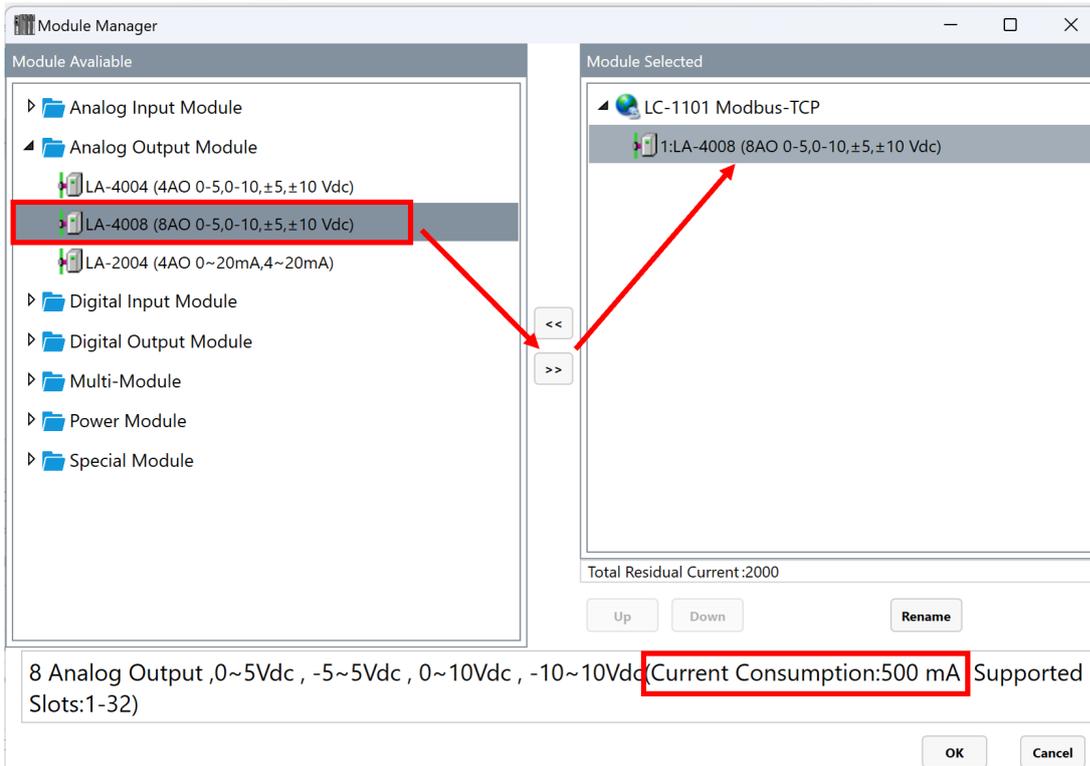


To add a new coupler, right-click in the project directory and select 'New Coupler.' In the pop-up window, choose LC-1101 and select 'Serial Port' for the interface. Assign the serial port number as COM10 and click 'OK.'

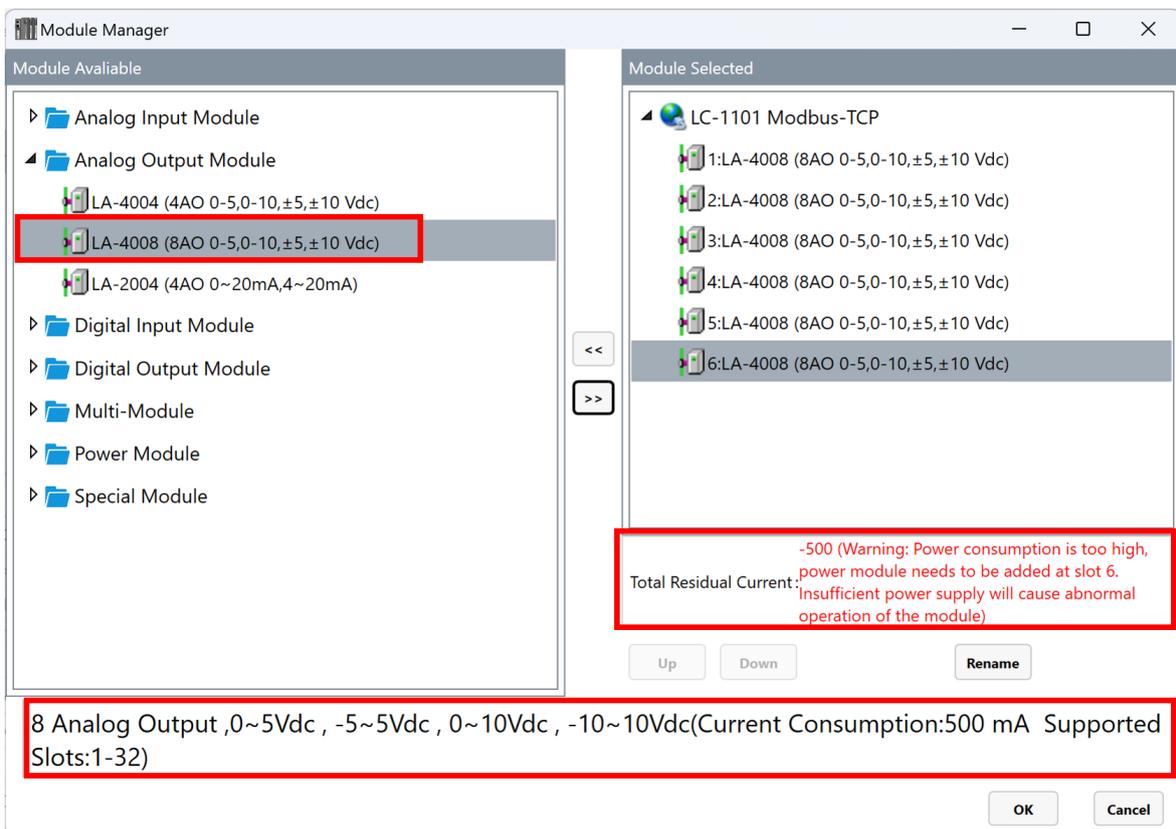


To add IO modules to the LC-1101 coupler, right-click on LC-1101, choose 'Module Management,' and in the dialog box that appears, select the required IO modules.

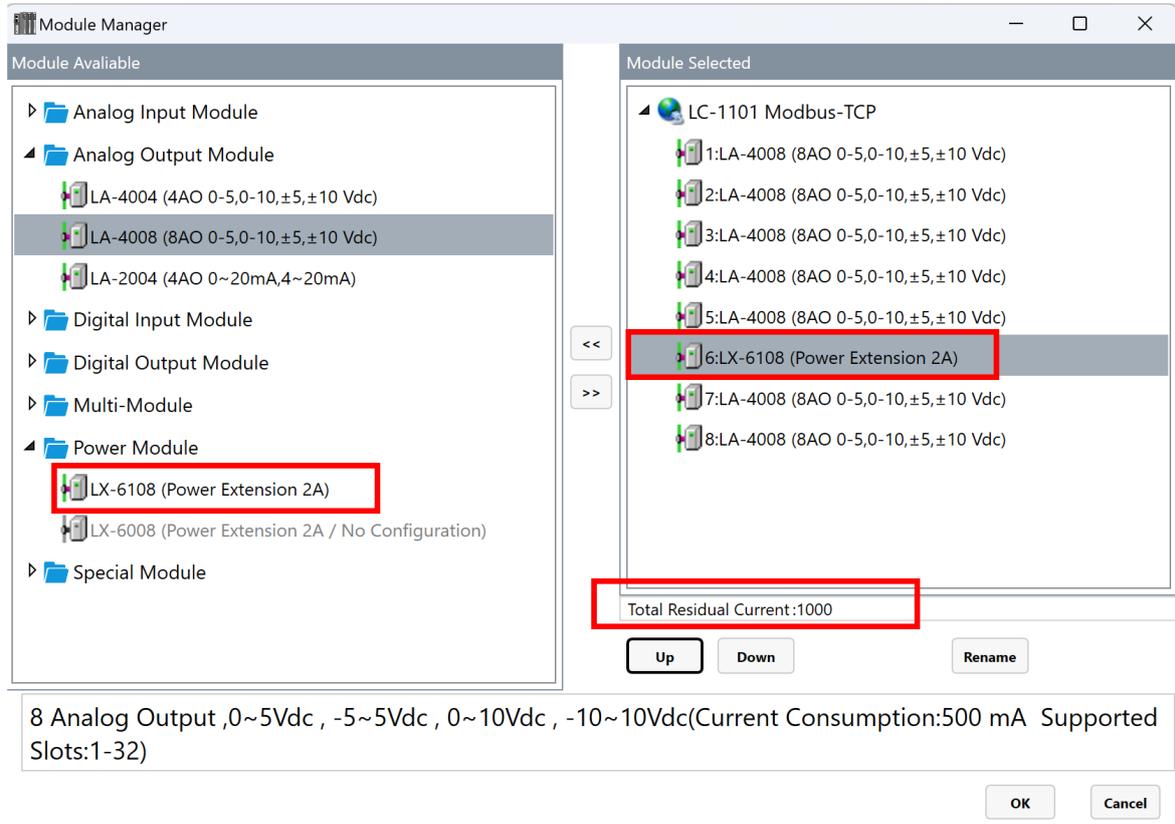




The bottom-left corner displays the current consumption of the selected IO modules. If the available current is depleted, a warning in red font will appear, indicating the need for an additional power module

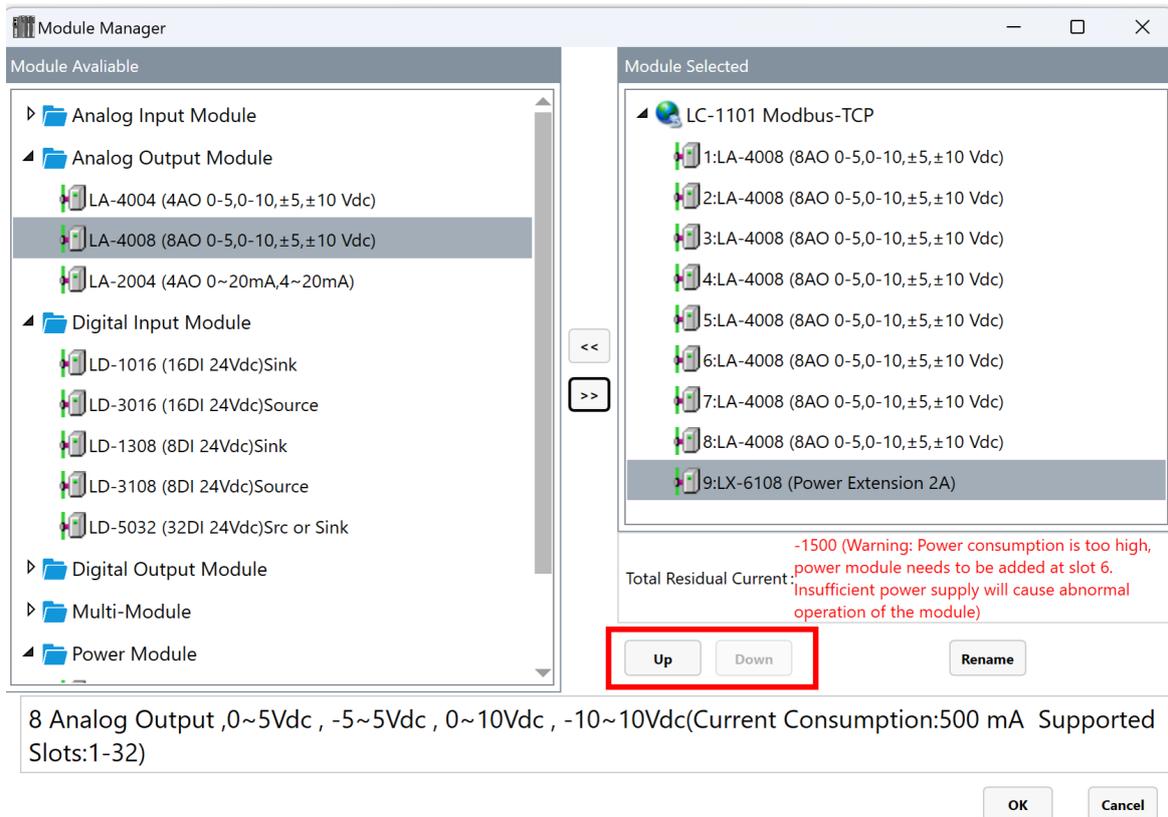


In this example, the power module is prompted to be inserted into 10 slots. After adding the power module, you can continue to add other IO modules.

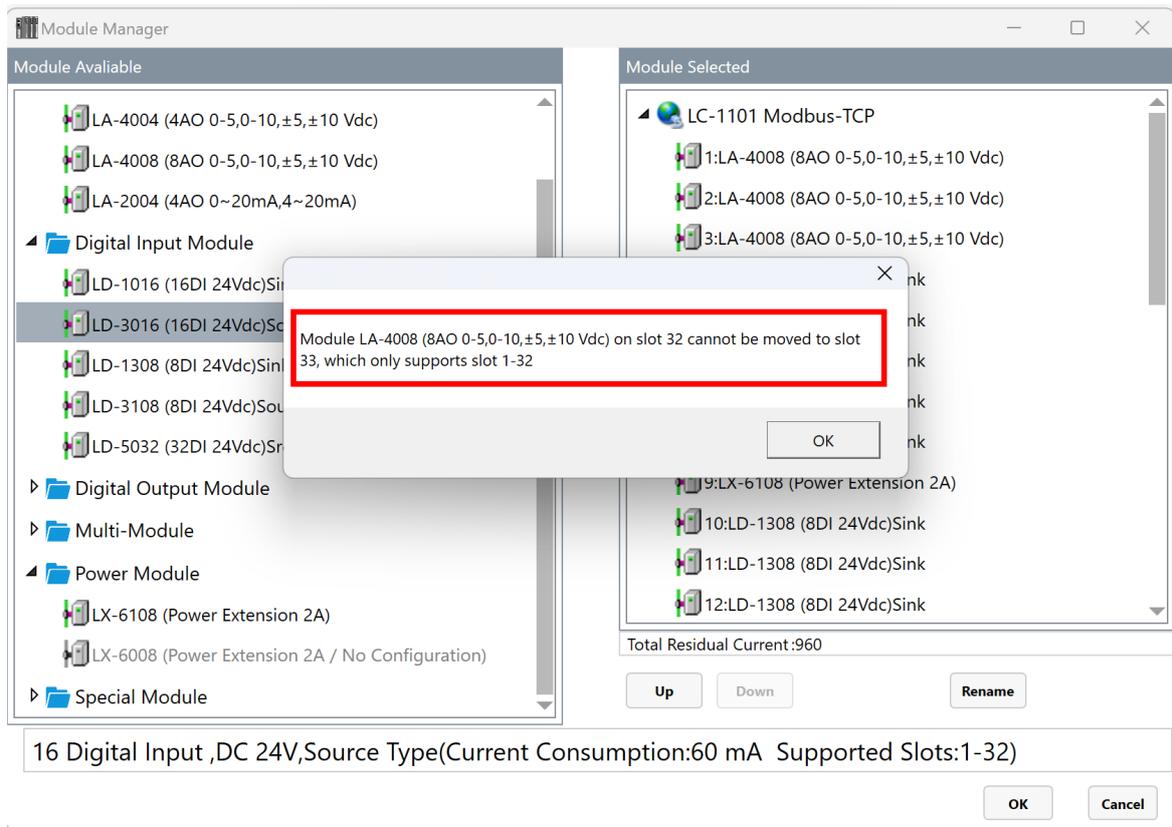


In case a power module needs to be added, a dialog box will appear. Follow the instructions to place the power module in the specified slot.

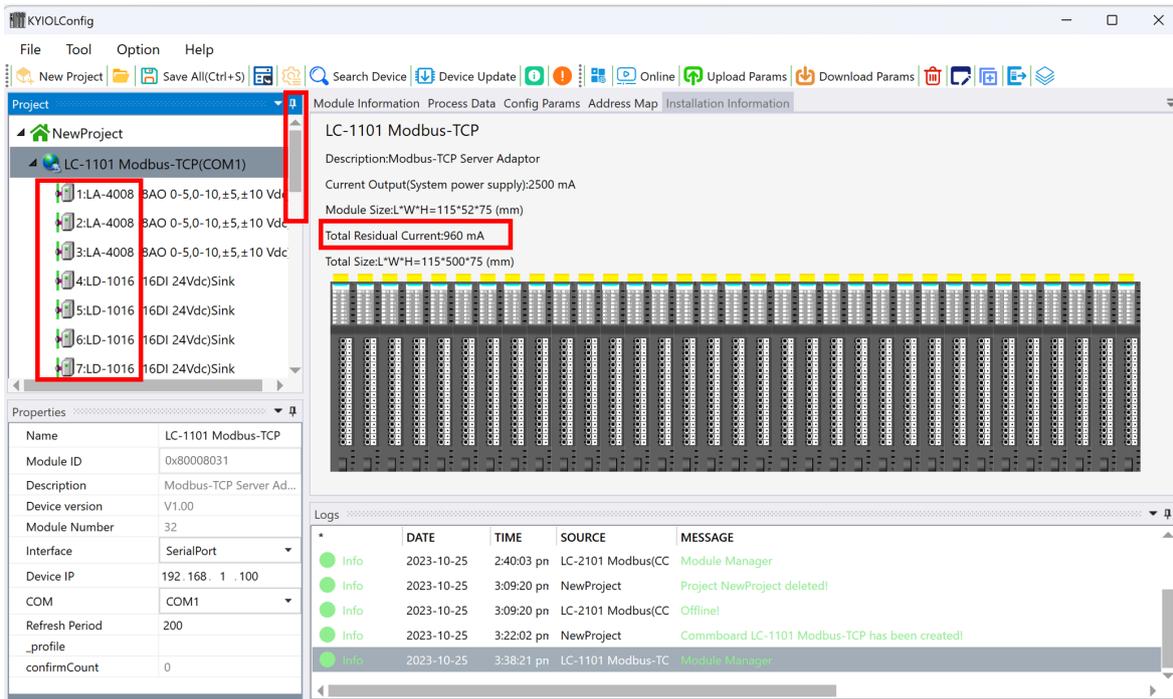
At this time, the power module LX-6108 must be inserted into the corresponding slot 10 , as shown below. During actual selection, the specific slot position for placing the power module shall be based on the red font prompts. If the power module added is after Slot 10, clicking "OK" will prompt a dialog box saying "Power consumption is too high, a power module needs to be added to Slot 10."



To continue configuring the IO module for the LC-1101 coupler, it's important to note that it can accommodate up to 32 modules, with the power modules occupying a specific number of slots. If you continue to add the IO module, the following window will pop up.



After adding the IO modules, clicking 'OK' will automatically populate them in the project panel. The Installation Information interface on the right will show the available current, and individual IO modules can be clicked to view their specific hardware information. On the right side of the installation information interface, you can see that the LC-1101 outputs a current of 2500mA, and a power module of 2000mA has been added. After consuming power from 32 slots, the remaining total current is 975mA. Click on the icon of a single IO module to view the hardware information of the corresponding module.

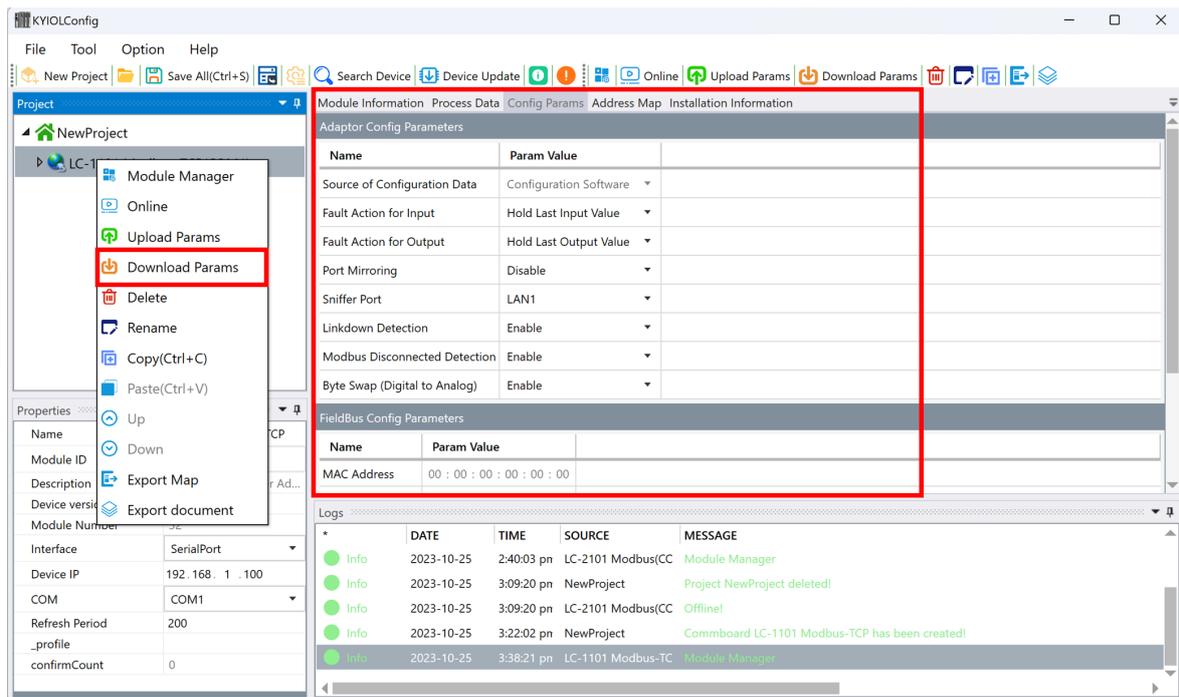


### 3.4 View and modify KYIO-L series IO configuration parameters

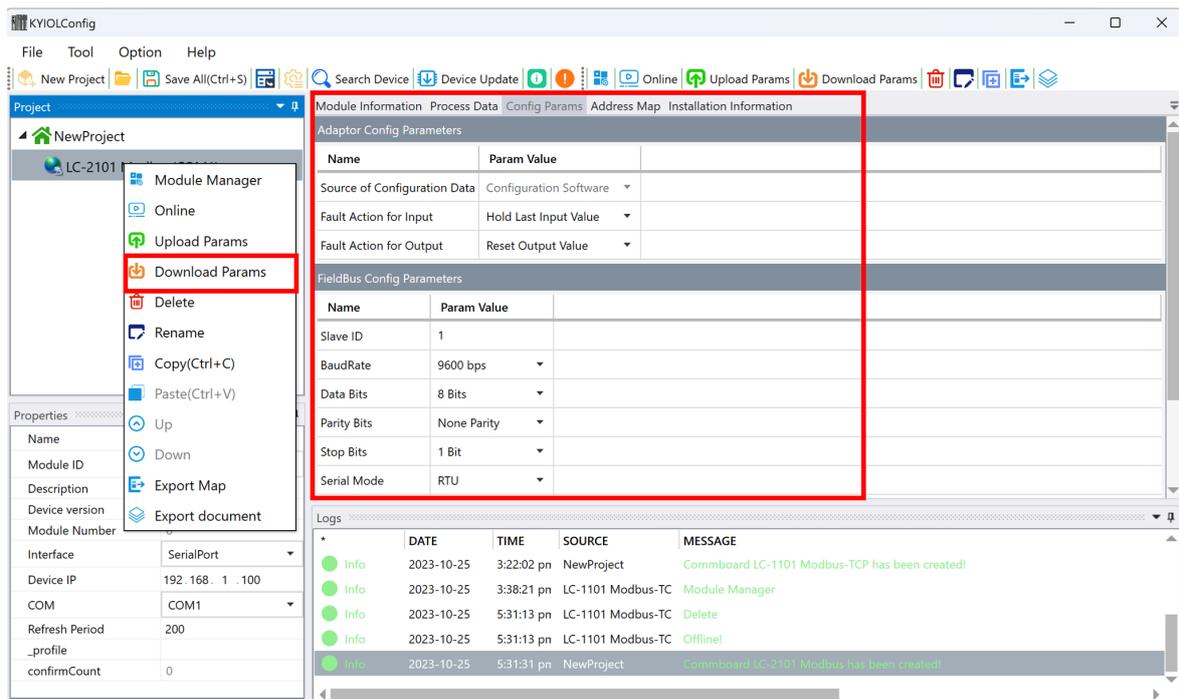
Create a new project and add various Coupler and IO modules. Navigate to the Configuration Parameters section to view the default settings of the KYIO-L series IO modules. The parameters for the Coupler modules operating under Modbus TCP, Modbus RTU, and CANopen communication protocols require modification via the KYIO-L Config software, accessed through the third-party configuration interface. In contrast, Profinet, EtherCAT, and Profibus DP Coupler modules allow direct parameter modification in the third-party configuration interface without utilizing KYIO-L Config software.

The configuration parameters of the IO module can be modified in the KYIO-L Config software. After completing the modification of the IO module parameters, right-click on the coupler module and select "Download Configuration".

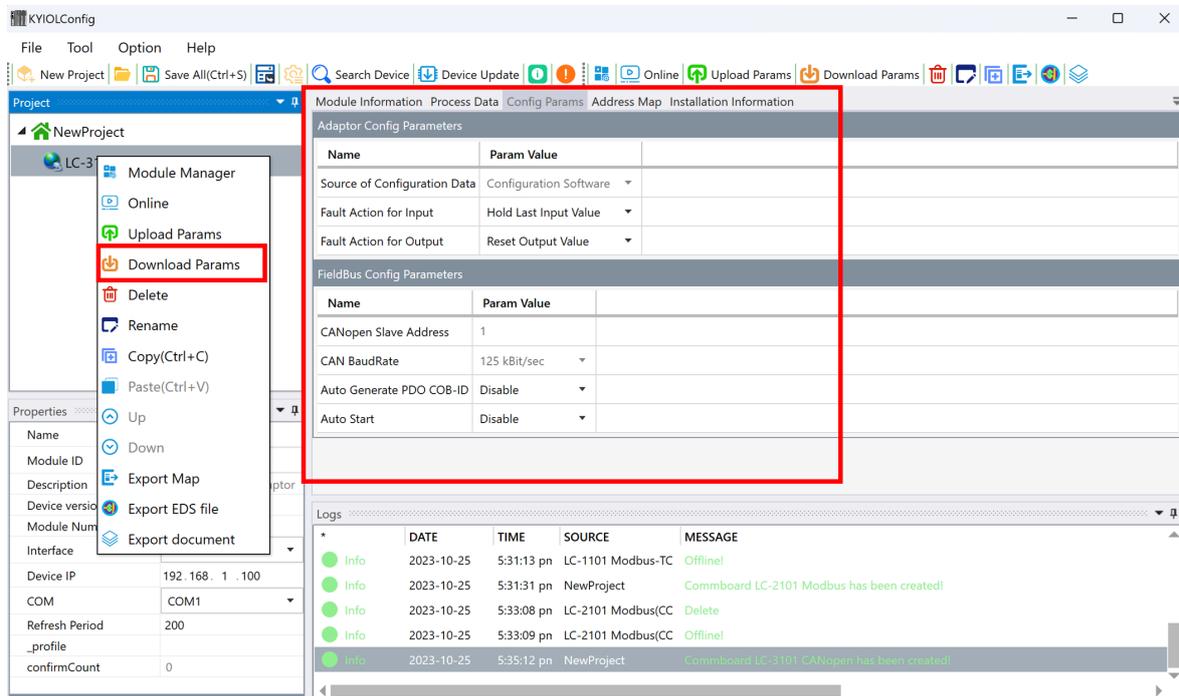
Modbus TCP (LC-1101) configuration parameter interface:



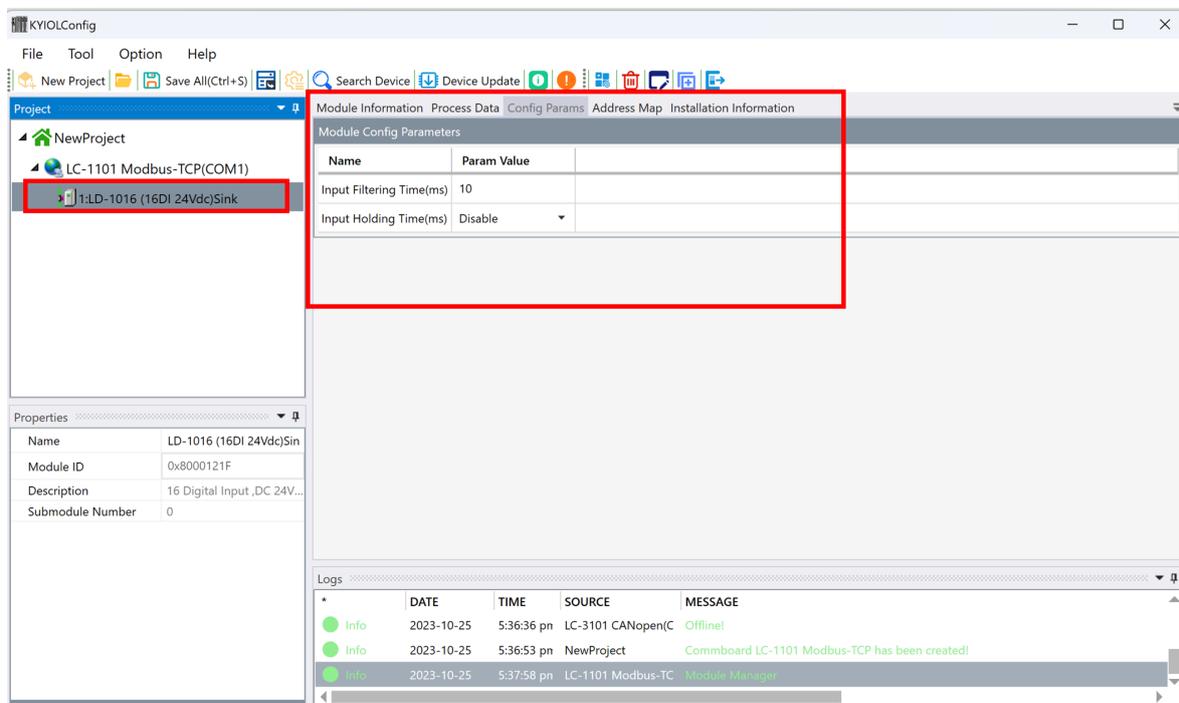
Modbus RTU (LC-2101) configuration parameter interface:



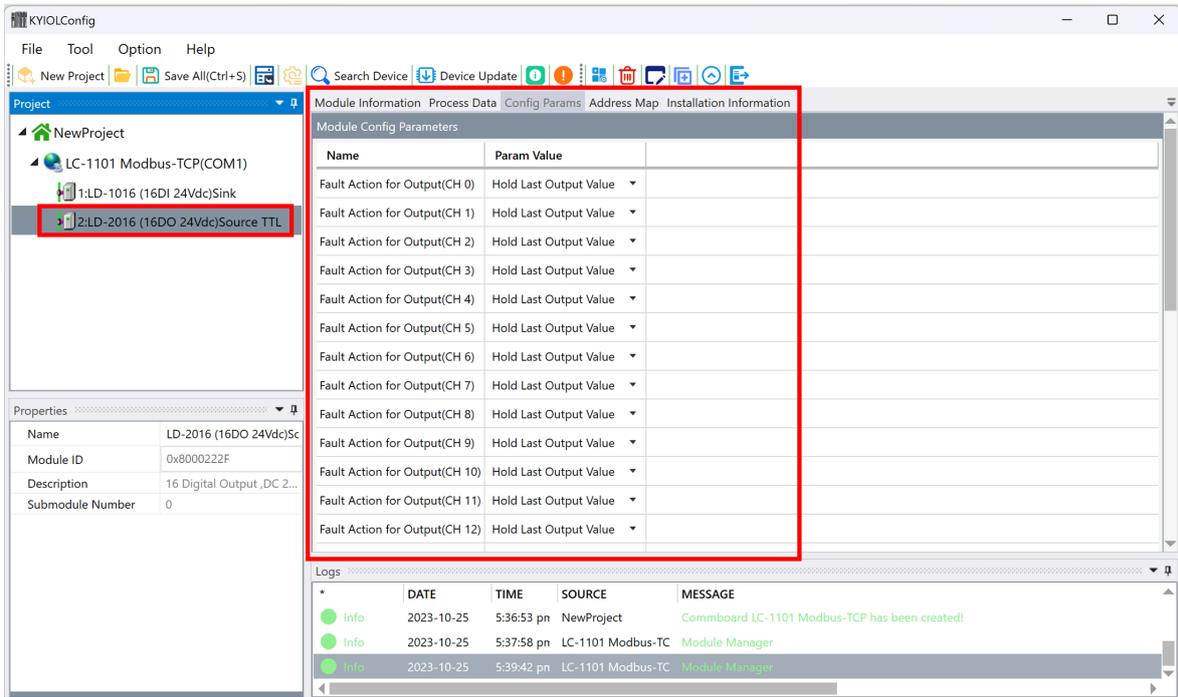
CANopen(LC-3101) configuration parameter interface:



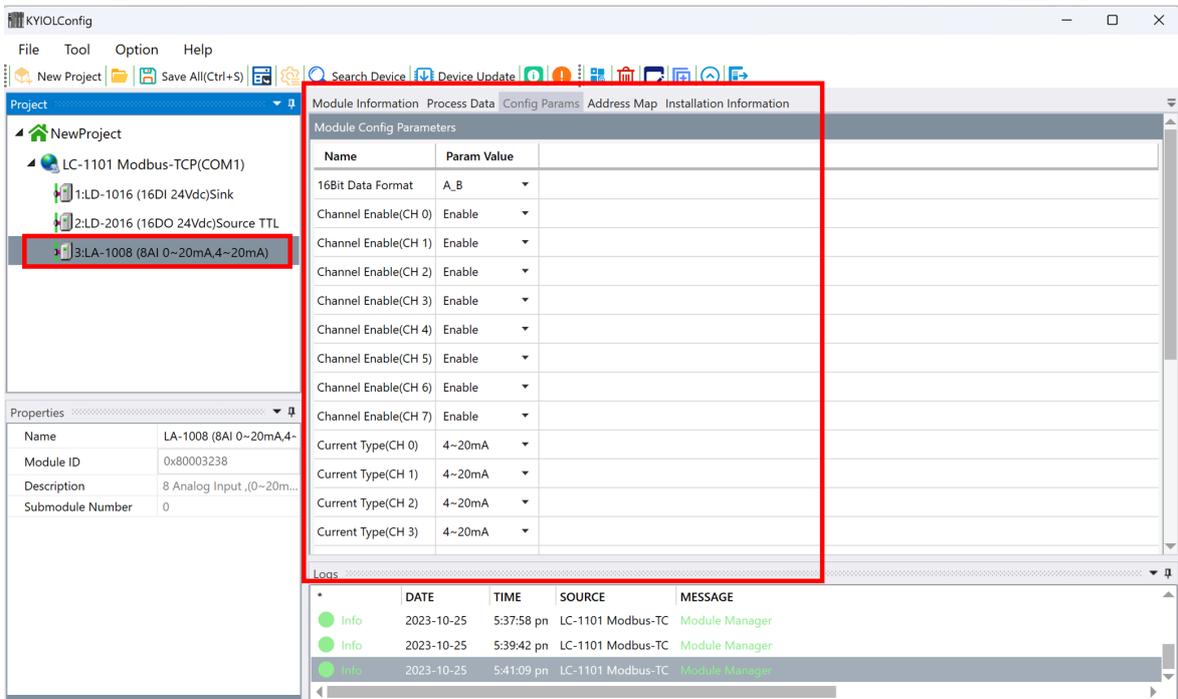
LD-1016 parameter interface



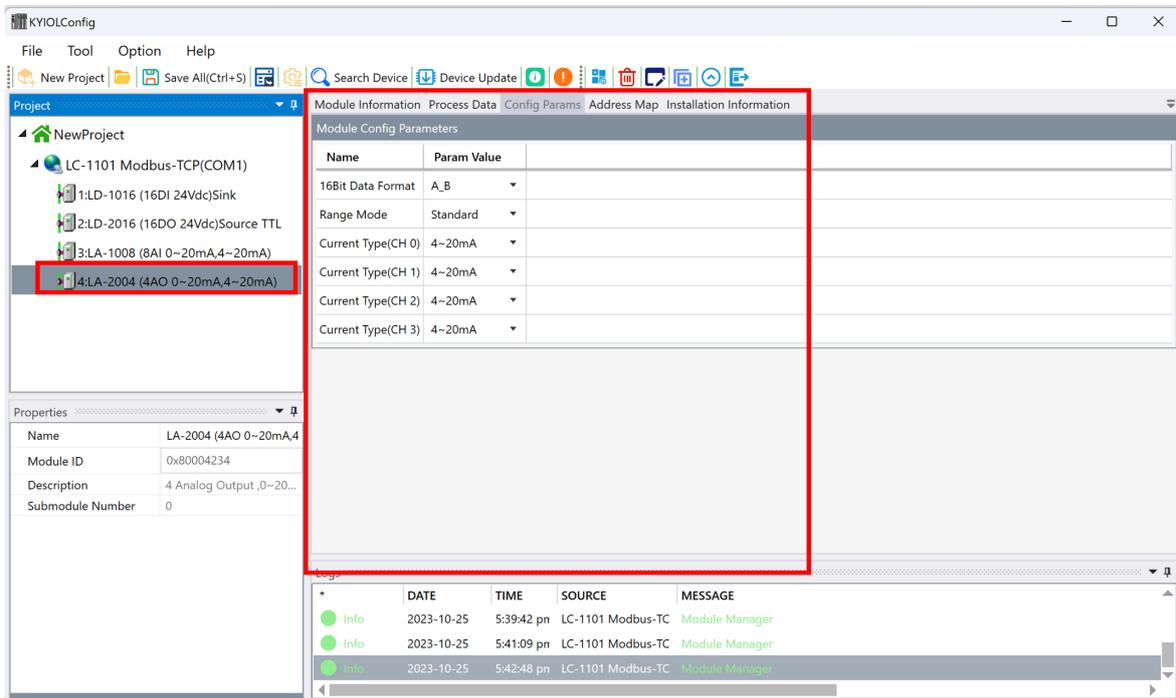
### LD-2016 configuration parameter interface



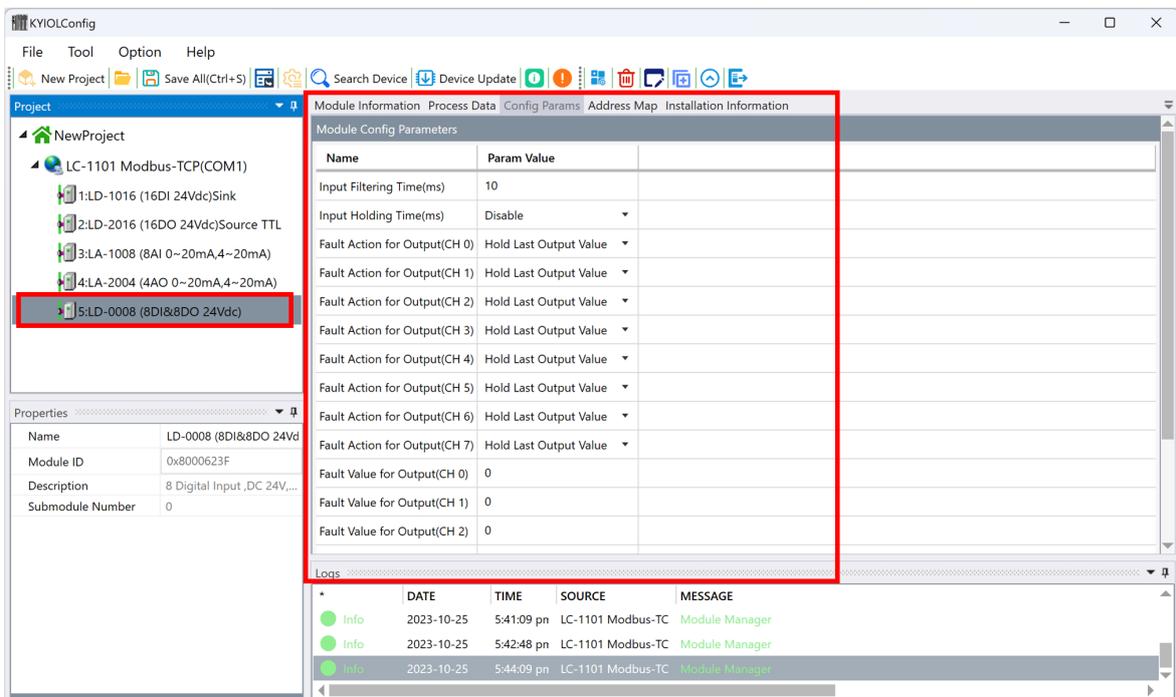
### LA-1008 configuration parameter interface



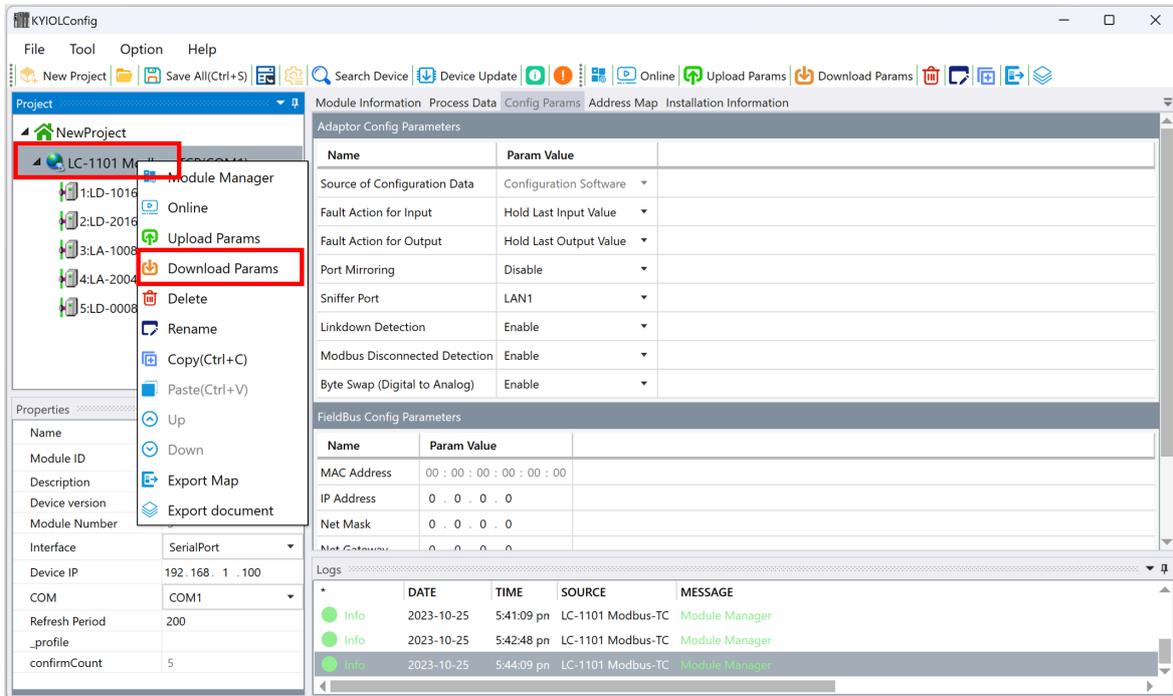
### LA-2004 configuration parameter interface



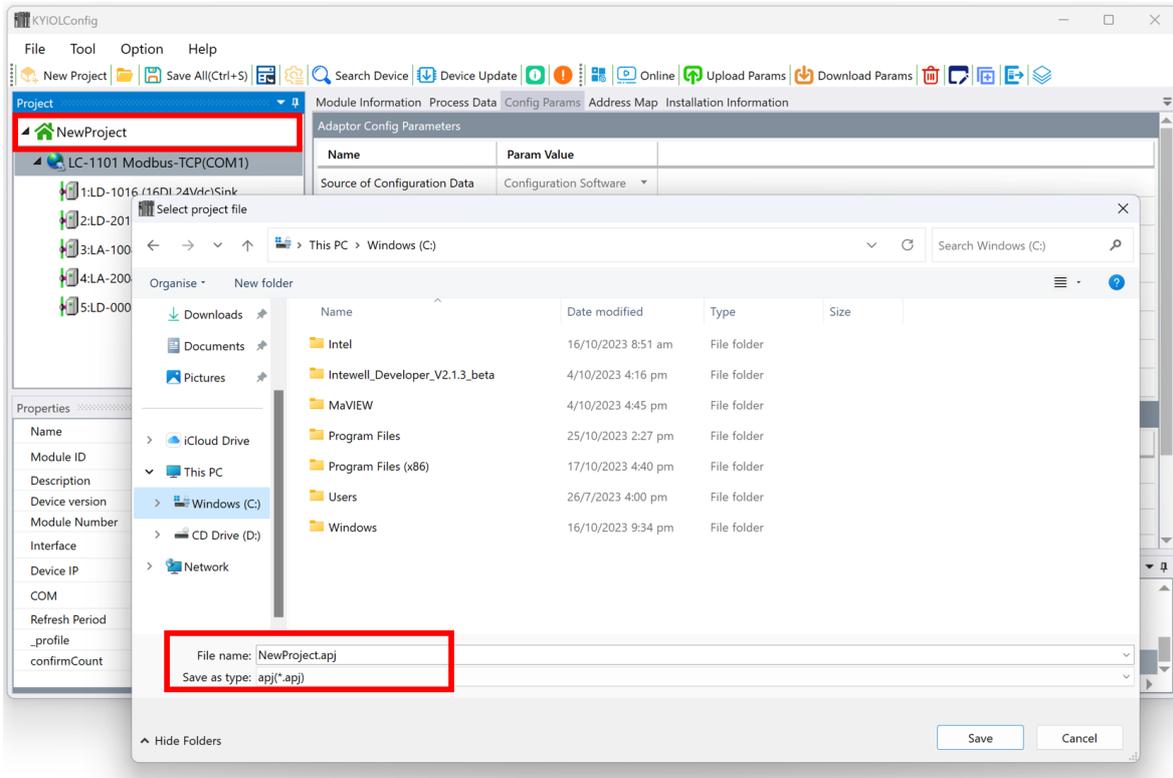
### LD-0008 configuration parameter interface



To modify IO module parameters, use the KYIO-L Config software. Once the modifications are complete, right-click on the Coupler module and choose the "Download Configuration" option.



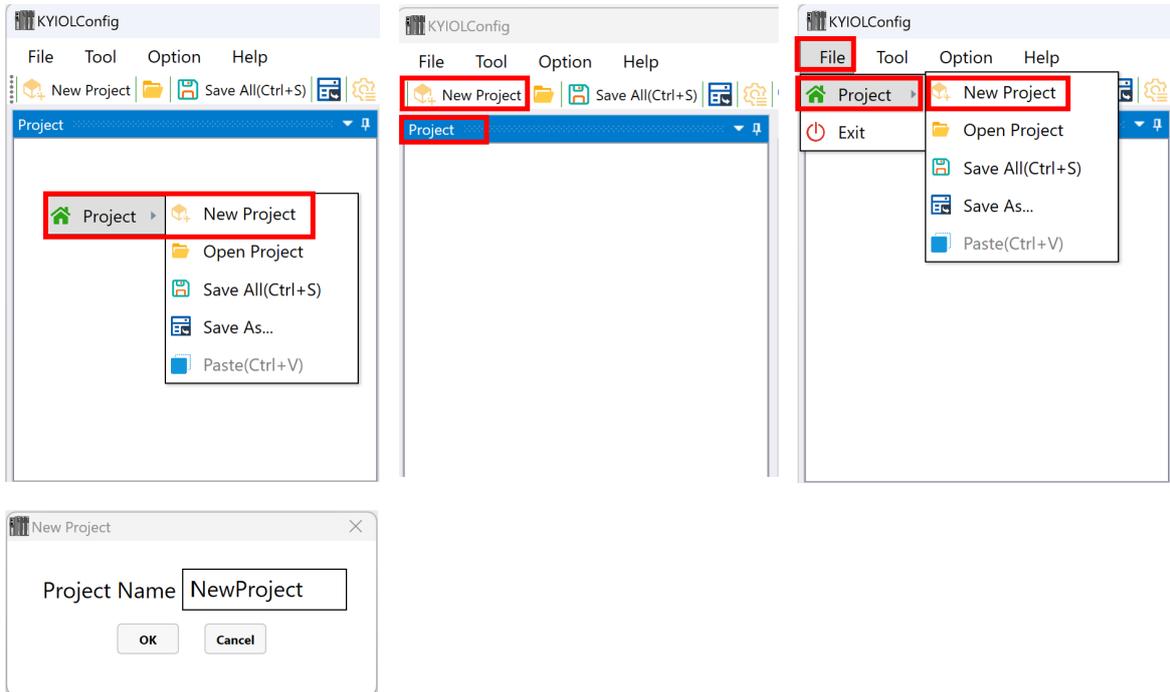
After modifying all the parameters, select the coupler module and press the shortcut key "Ctrl+S" to save the entire configuration project file.



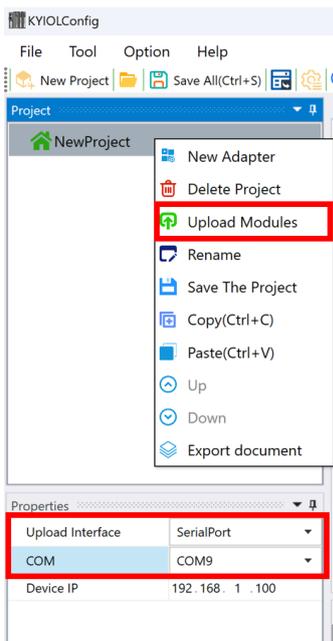
### 3.5 Online debugging KYIO-L series IO module

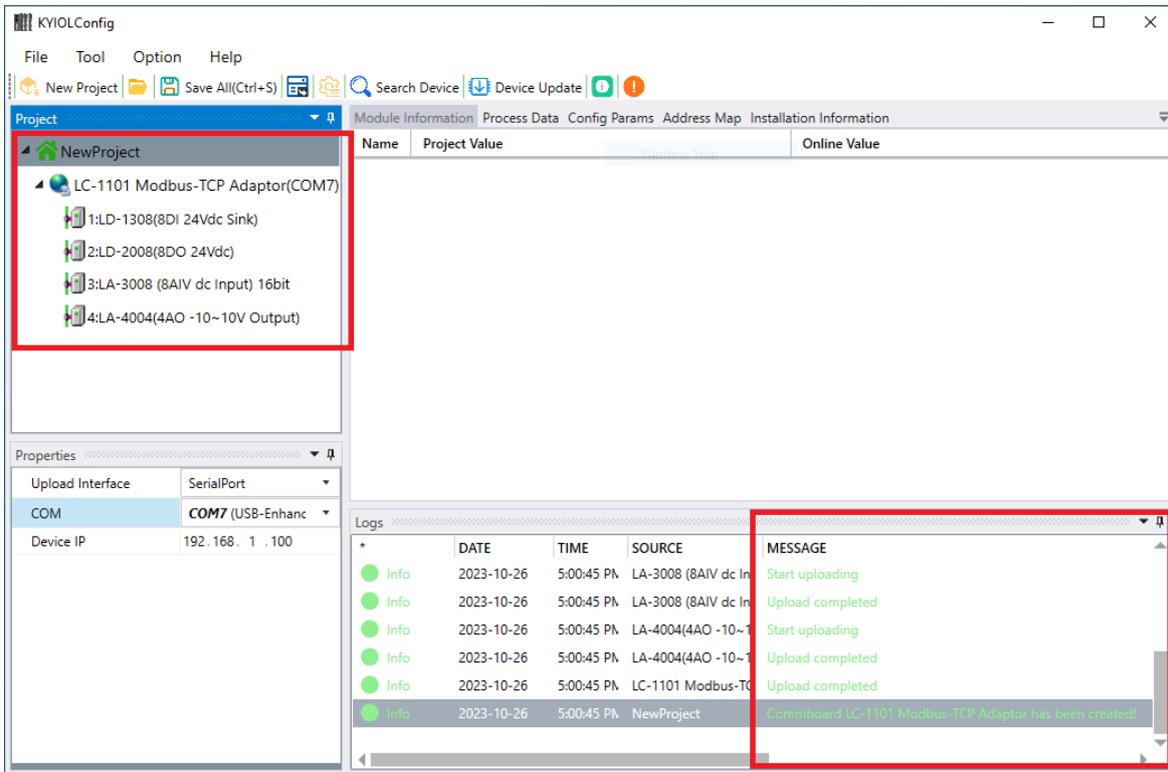
Connect the system power supply and the field power supply to a 24Vdc power source separately. Establish a connection between the module and the computer using either a Micro USB or Ethernet cable. Note that the Micro USB connection requires driver installation. Upon successful installation, a COM port such as COM9 will be automatically assigned.

1. Launch the installed KYIO-L Config software, navigate to File -> Project -> New Project in the menu bar, or right-click in the project directory and select Project -> New Project. Manually input the project name.

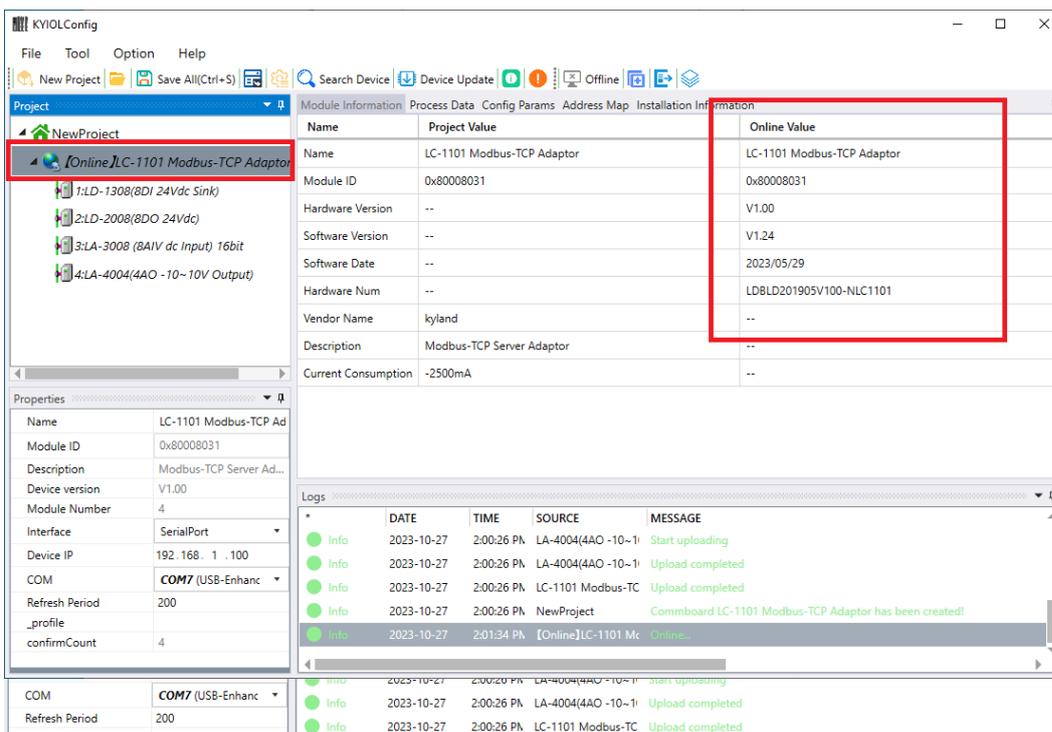


2. In the attribute panel, set the upload interface to Serial Port and select COM9 for the serial port number. Right-click on the project name and select "Upload IO Module"; this will trigger an automatic scan of the IO module in the project column.

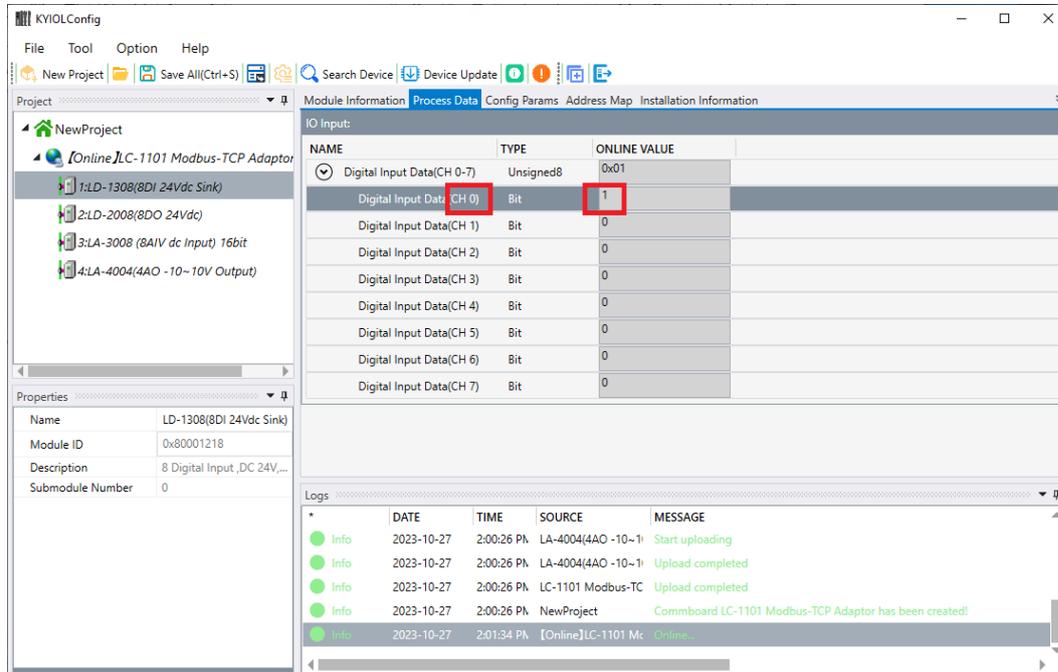




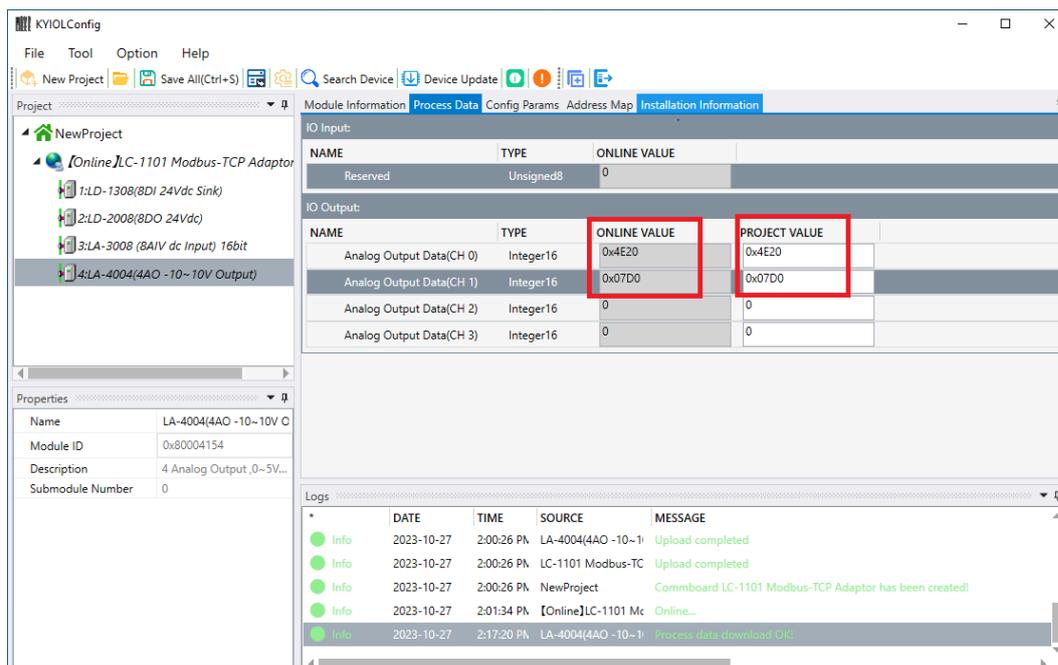
3. Right-click on the Coupler module LC-1101 and select the "Online" option to enable real-time monitoring of the IO module data.

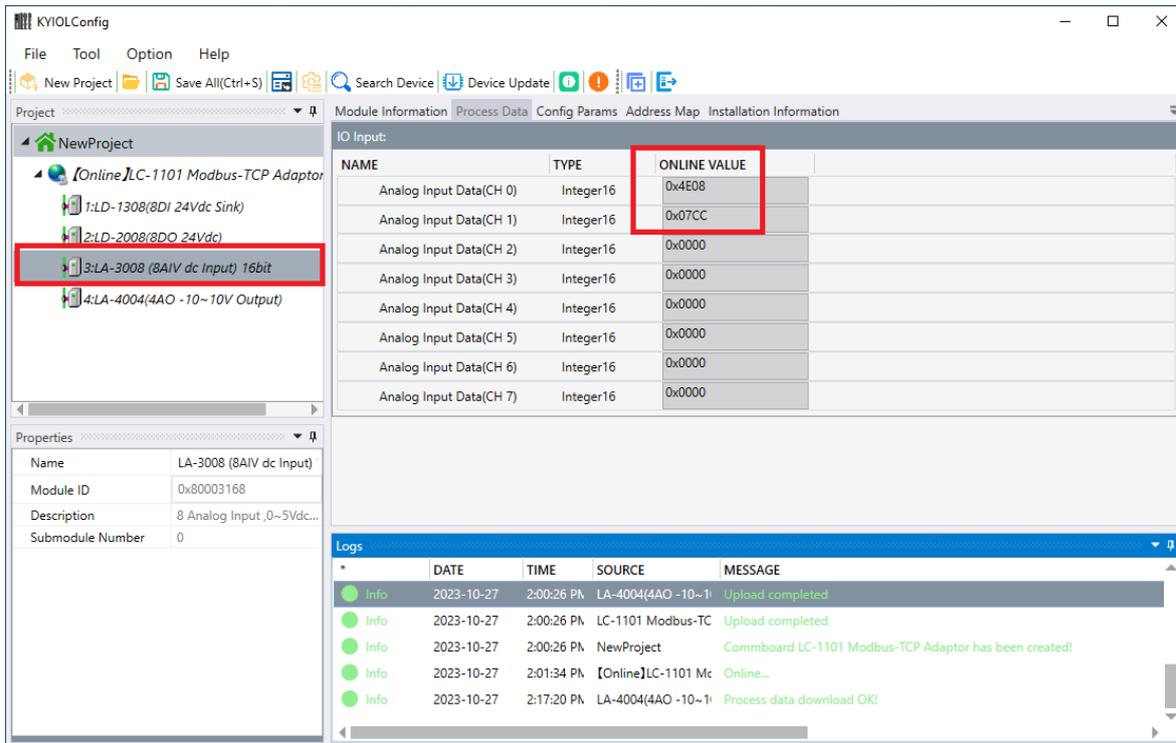


Case 1: For LD-1308, supply its external DI0 with a 24VDC power source. The value CH0=1 can then be monitored in the process data interface.

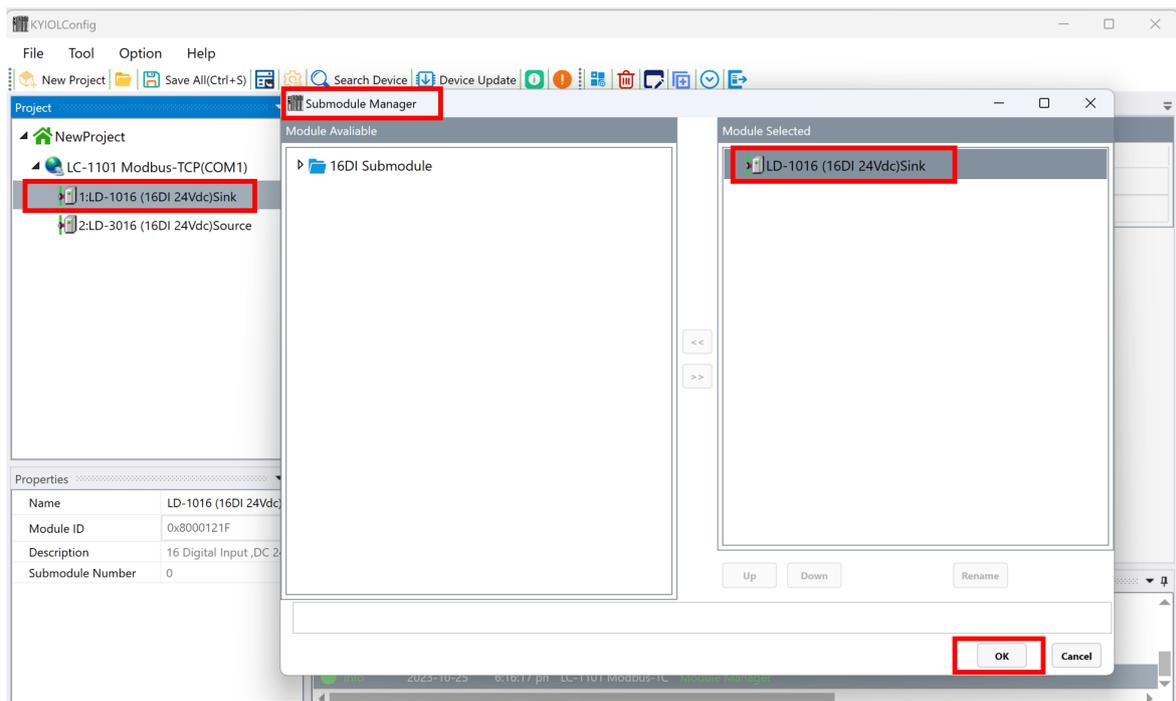


Case 2: Assign a value of 30000 to CH0 in slot 4 of LA-2004, connecting it simultaneously to CH0 in slot 3 of LA-1008. Similarly, assign a value of 20000 to CH1 in slot 4 of LA-2004 and connect it to CH2 in slot 3 of LA-1008.

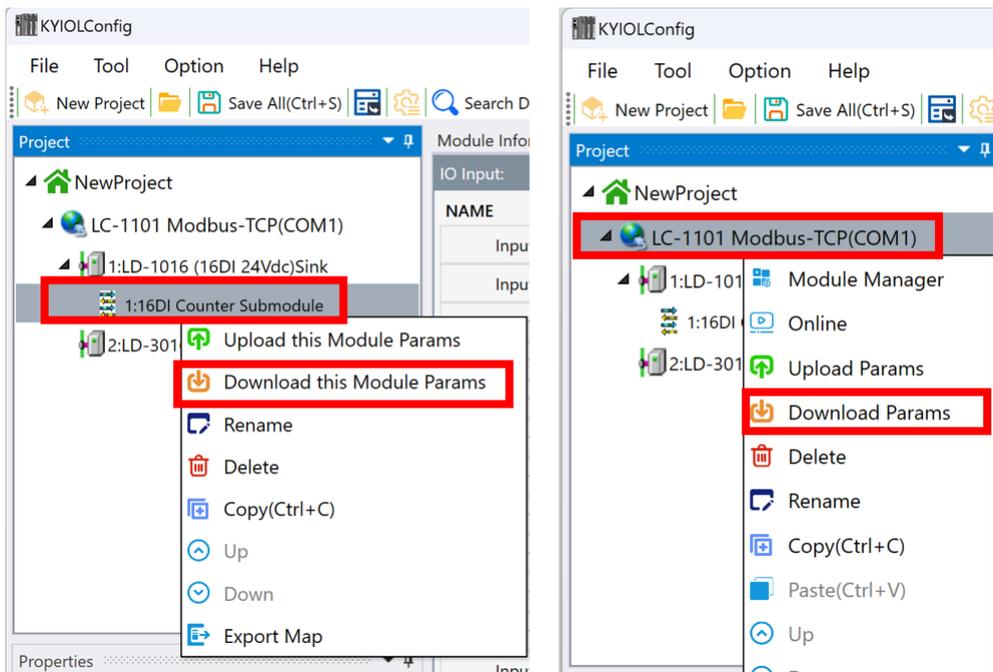




**Note:** For digital input modules, additional counting modules may be manually integrated.



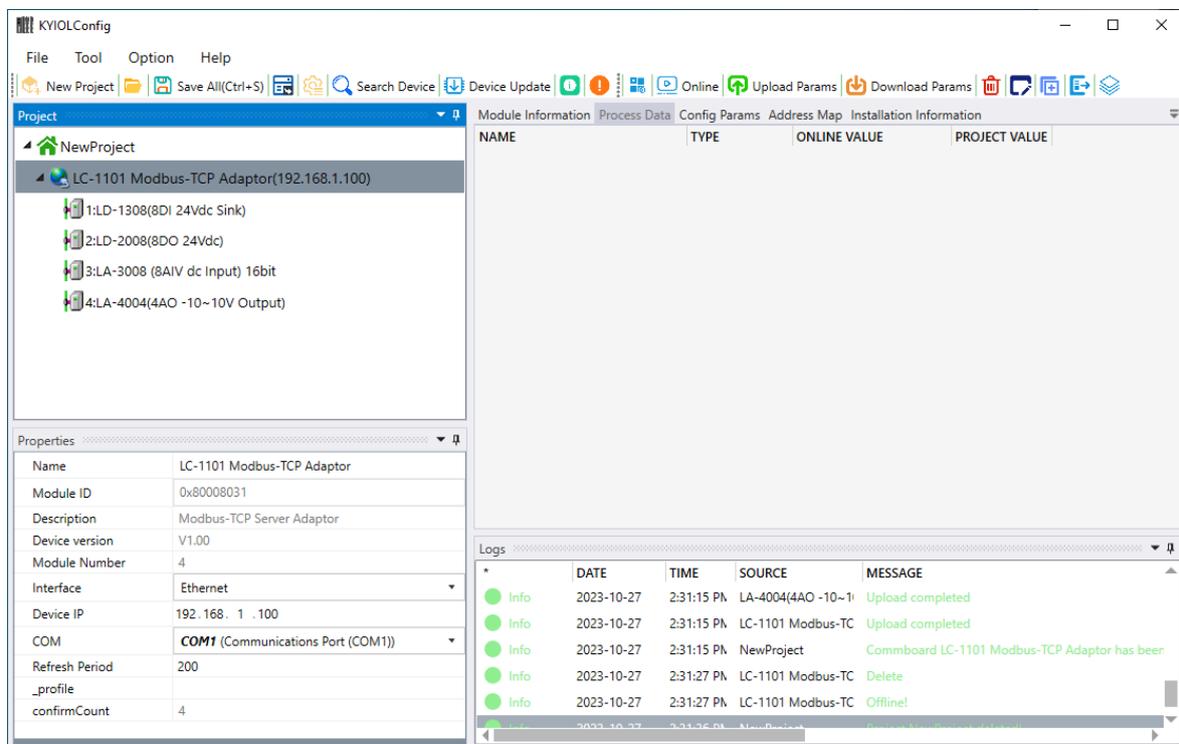
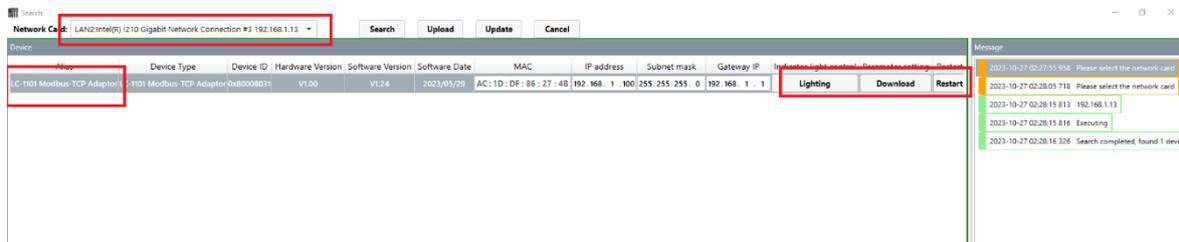
Upon adding a sub-module, it is crucial to right-click and download the module configuration or IO parameters for LC-1101. Failing to do so and clicking "Online" will result in an error message: "The number of sub-modules does not match the total number of configured sub-modules."



### 3.6 Search device (only for MODBUS TCP communication)

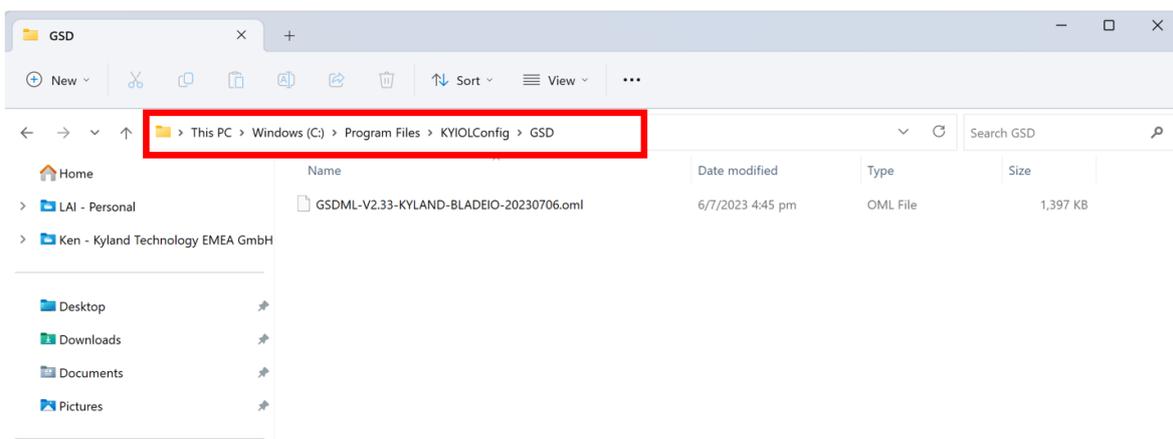
When using the LC-1101 coupler module with MODBUS TCP communication, you can initiate a device search by clicking the search tool icon or utilizing the designated shortcut key. Upon activation, a pop-up interface will appear; select the local network card and initiate the search process. All available coupler modules within the network architecture will be automatically scanned and listed in the device inventory. This interface allows you to view various parameters such as hardware and software versions, IP addresses, etc. For networks with multiple couplers, the software also supports the "Blink" and "Download" functions for device searching and IP address modification, respectively, as well as a "Restart"

option. To upgrade firmware, select "Upgrade" to navigate to the dedicated upgrade interface. Click "Upload," and all IO modules within the project panel will be automatically uploaded.

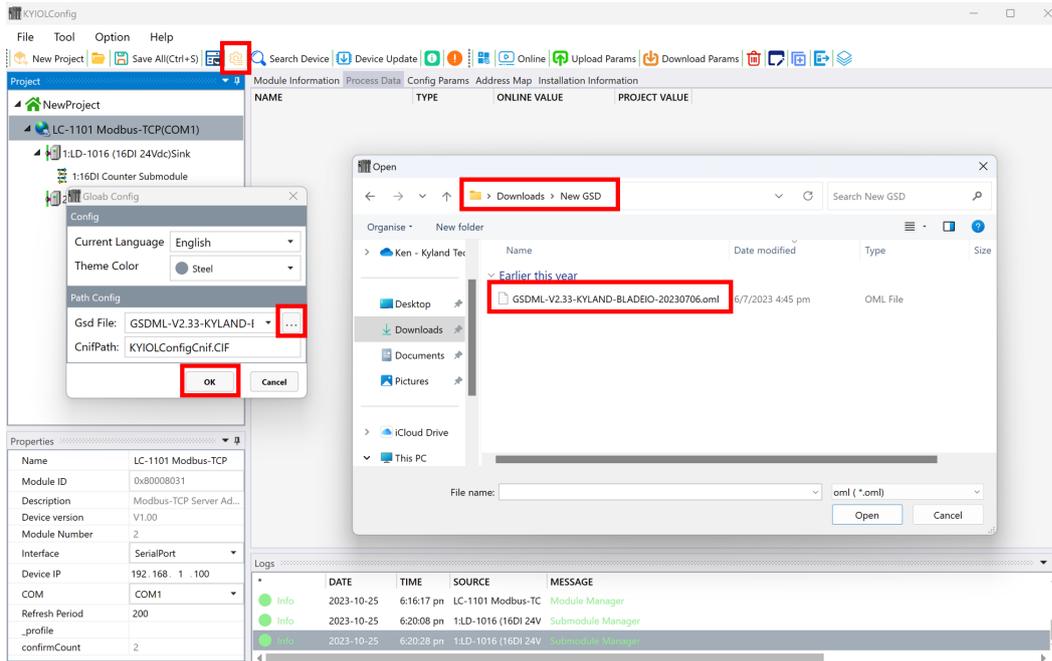


### 3.7 Update device library files (hardware support package)

To integrate newly released IO modules, updating the device library file is essential. This can be done without requiring a software update. Firstly, copy and paste the most recent version of the GSDML-V2.33-Beijing Kyland Technology Co., Ltd.-BLADEIO-A-20230627 device library file into the GSD directory of the software installation path.

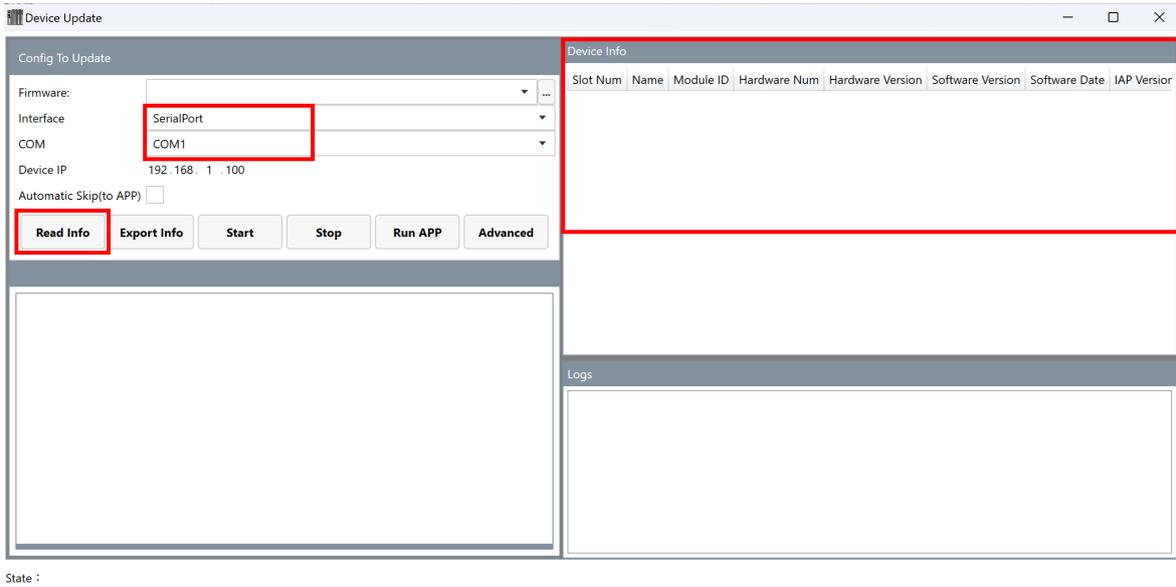


Subsequently, navigate to the menu bar and click on "Options" > "Configuration" or use the corresponding shortcut key. In the pop-up window, locate the newly added GSD library file under 'Gsd File' within the path configuration, and confirm by clicking "OK" to complete the device library update.

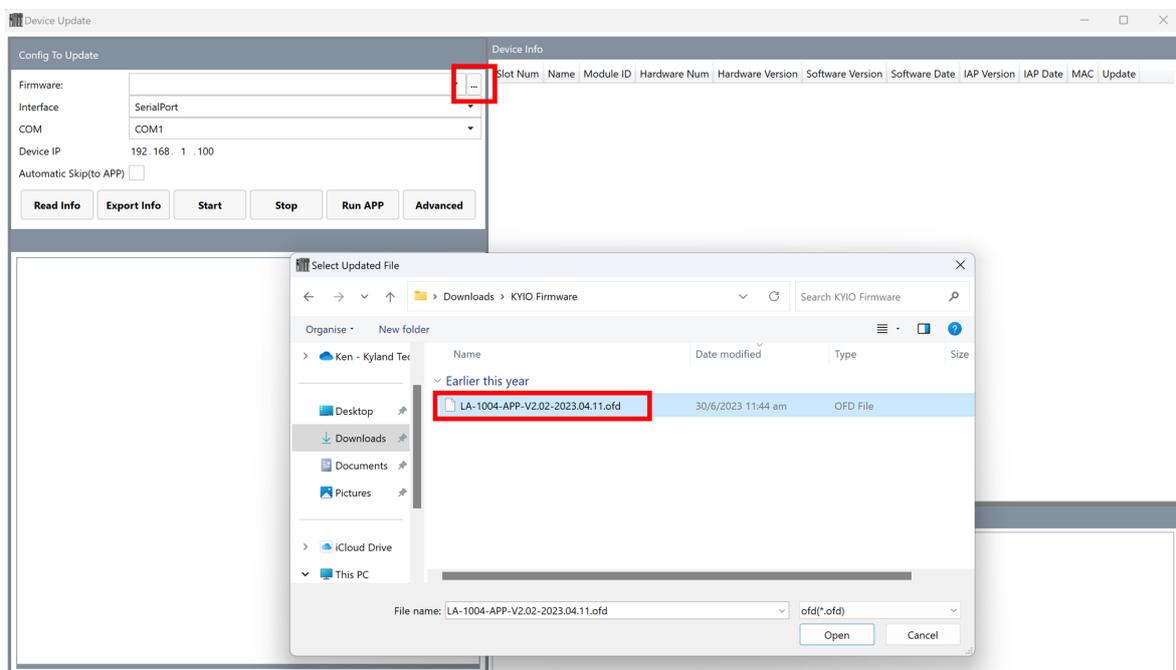


### 3.8 Device firmware upgrade

To initiate a firmware upgrade, open the KYIO-L Config software and select "Tools" > "Device Update" or use the designated shortcut key. A pop-up window will appear. Choose "Serial Port" as your communication interface (Ethernet can be selected for MODBUS TCP communication) and set the serial port number to "COM9". Click "Read Device Information" to view the current firmware version of the LC-1101 coupler module.

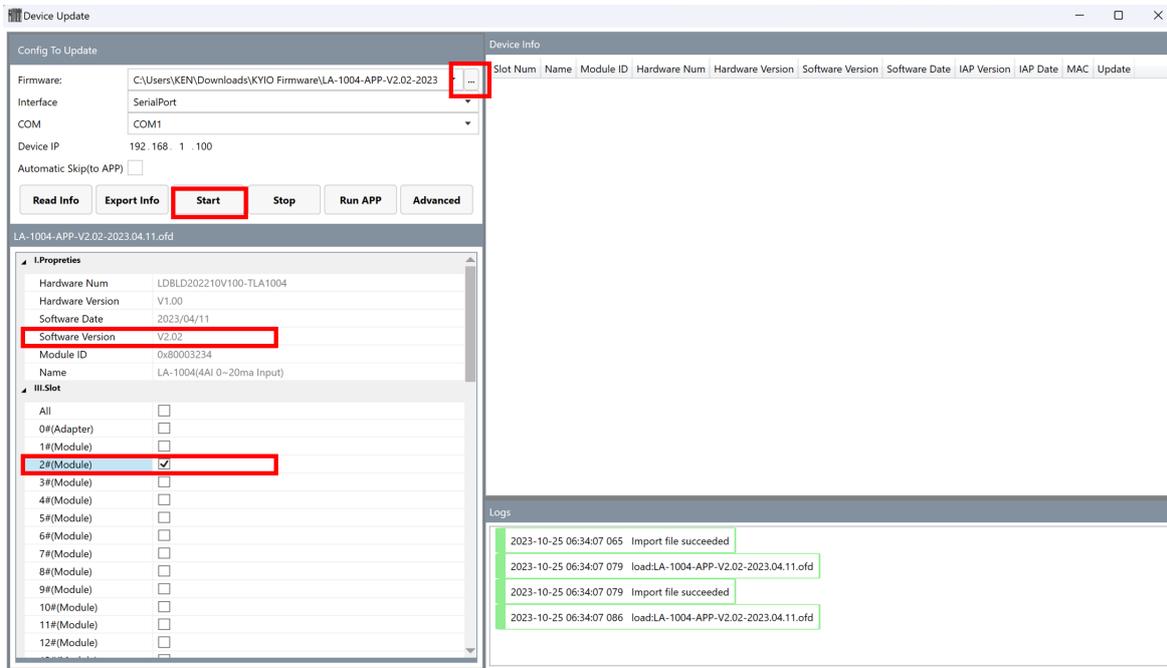


To specify the firmware file, click the corresponding area on the right side of the upgrade interface and select the upgrade file (.ofd) for the LC-1101 coupler module. Firmware details, including the upgraded version, can be viewed at the lower left corner of the upgrade interface.



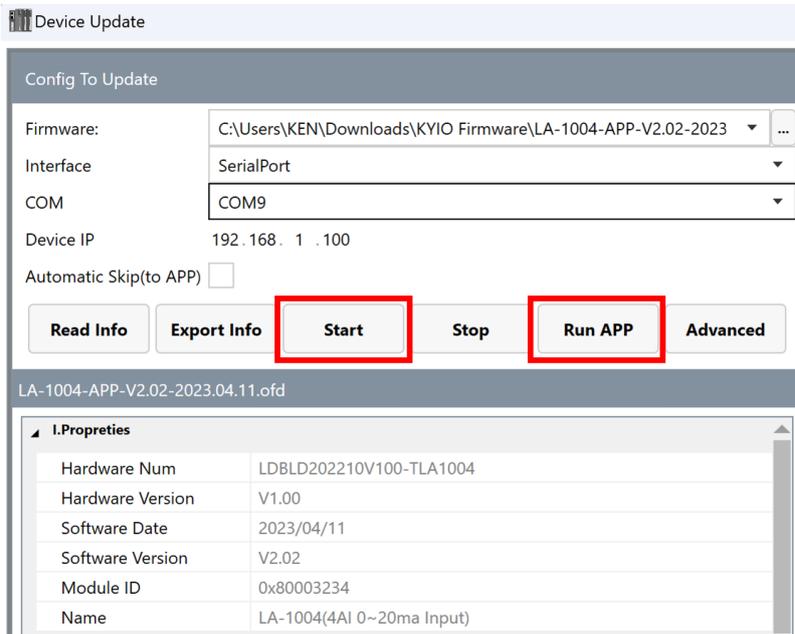
Should the firmware be up-to-date, no action is necessary. If not, select the Slot where the inconsistent module is located and click the checkmark (✓) to initiate the upgrade.

Note: If the displayed hardware version in the lower left corner pertains to an IO module, mark the checkbox next to the corresponding module and click "Start Upgrade."

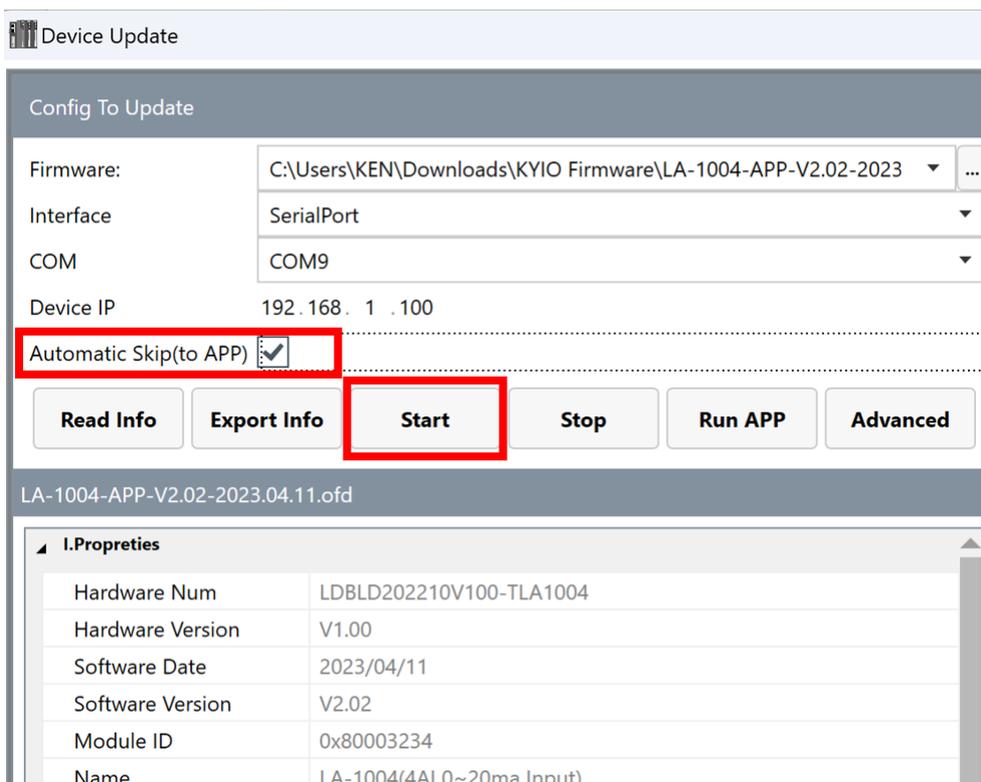


State : load:LA-1004-APP-V2.02-2023.04.11.ofd

During the upgrade process, click only on "Start Upgrade." Upon completion, if the system does not automatically switch to APP mode, you must manually click "Launch APP" or restart the device.



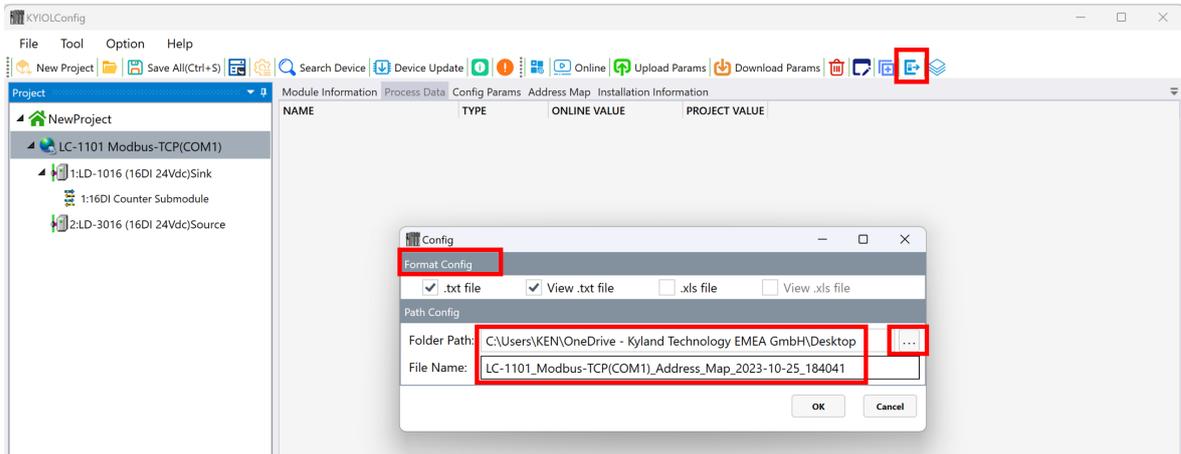
If the upgrade concerns only a single module, you may opt for automatic transition to the APP by selecting the corresponding option before clicking "Start Upgrade." The APP will launch automatically once the upgrade is finalized. For upgrading multiple modules, deselect the option for automatic transition to the app. Activate the APP manually after each module upgrade is completed.



### 3.9 Data export

Select the coupler module and right click to export the address table, or click the

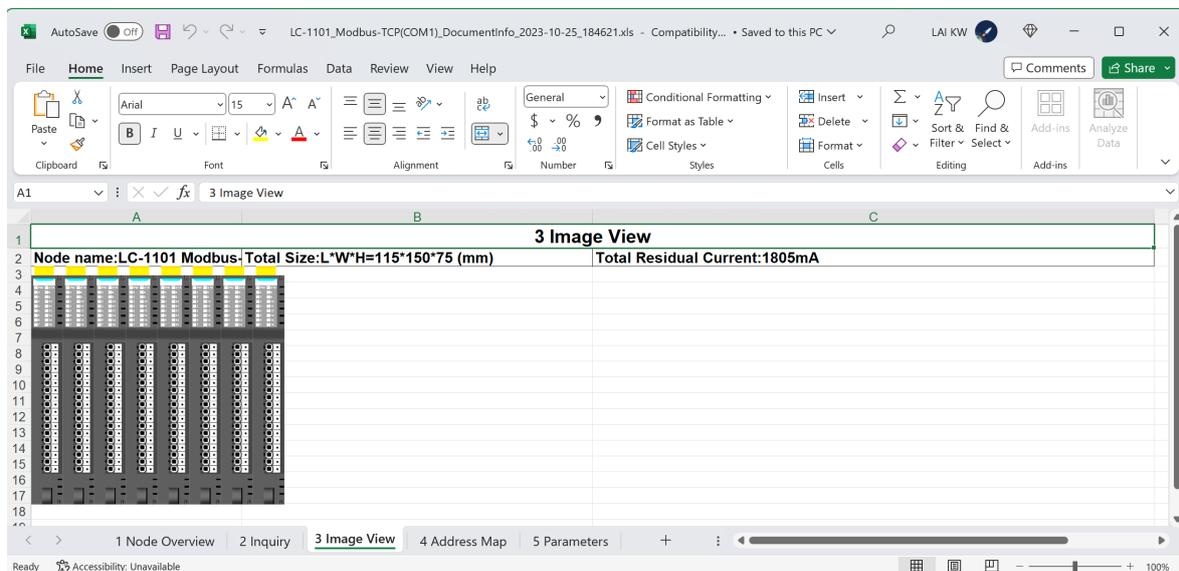
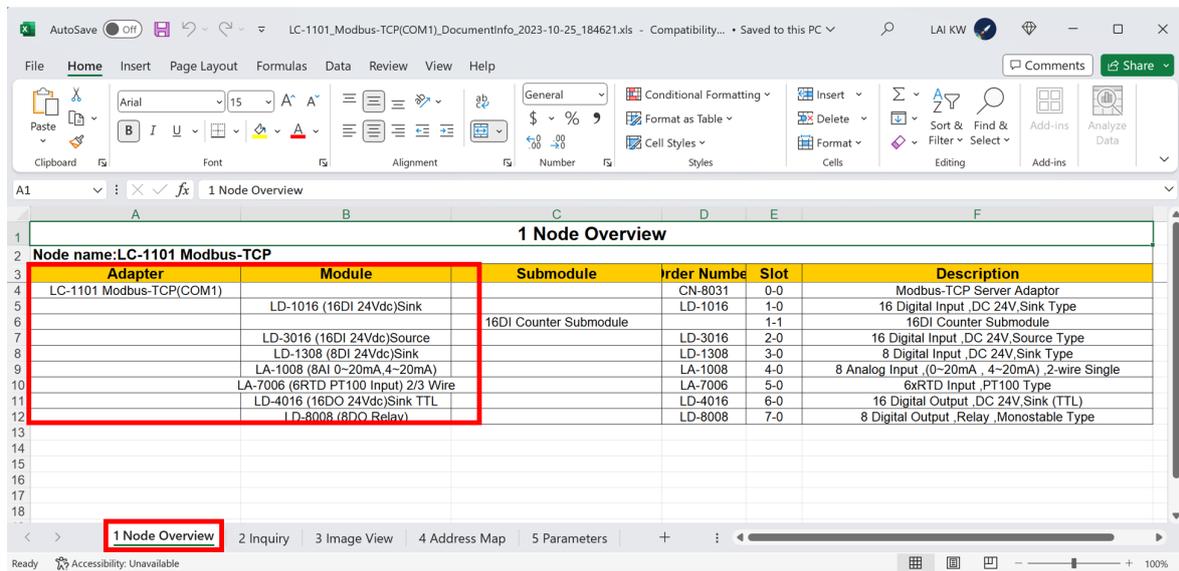
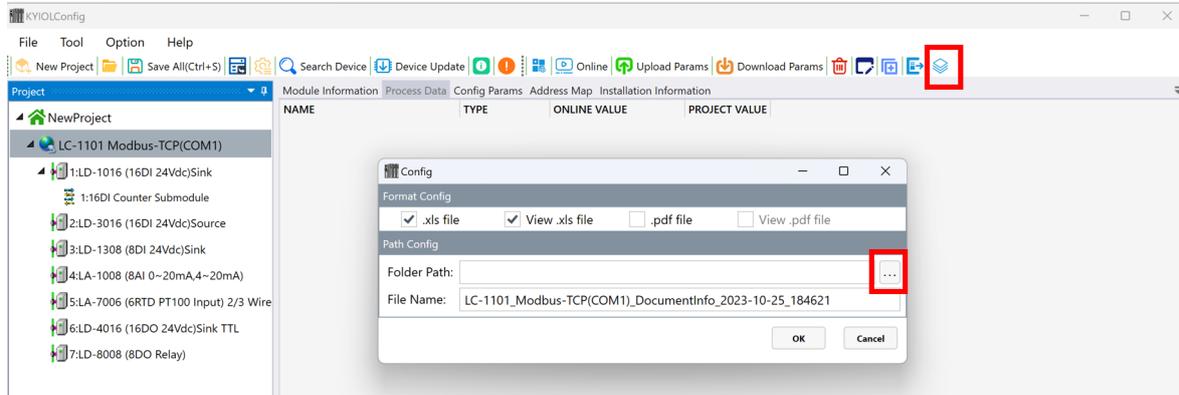
shortcut icon 



1# LD-1016 (16DI 24Vdc)Sink	RegisterArea:Input Status(1x)
Data Name:Digital Input Data(CH 0) 0(Bin)	RegisterArea:Input Status(1x)
Data Name:Digital Input Data(CH 1) 1(Bin)	RegisterArea:Input Status(1x)
Data Name:Digital Input Data(CH 2) 2(Bin)	RegisterArea:Input Status(1x)
Data Name:Digital Input Data(CH 3) 3(Bin)	RegisterArea:Input Status(1x)
Data Name:Digital Input Data(CH 4) 4(Bin)	RegisterArea:Input Status(1x)
Data Name:Digital Input Data(CH 5) 5(Bin)	RegisterArea:Input Status(1x)
Data Name:Digital Input Data(CH 6) 6(Bin)	RegisterArea:Input Status(1x)
Data Name:Digital Input Data(CH 7) 7(Bin)	RegisterArea:Input Status(1x)
Data Name:Digital Input Data(CH 8) 8(Bin)	RegisterArea:Input Status(1x)
Data Name:Digital Input Data(CH 9) 9(Bin)	RegisterArea:Input Status(1x)
Data Name:Digital Input Data(CH 10) 10(Bin)	RegisterArea:Input Status(1x)
Data Name:Digital Input Data(CH 11) 11(Bin)	RegisterArea:Input Status(1x)
Data Name:Digital Input Data(CH 12) 12(Bin)	RegisterArea:Input Status(1x)
Data Name:Digital Input Data(CH 13) 13(Bin)	RegisterArea:Input Status(1x)

Select the coupler module and right click to export the document, or click the

shortcut icon 



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4 Address Map

4 Address Map					
Node name:LC-1101 Modbus-TCP		Protocol:Modbus			
Adapter/Module/Submodule	Data Name	Input Status(1x)	Input Registers(3x)	Coil Status(0x)	Holding Registers(4x)
1# LD-1016 (16DI 24Vdc)Sink					
	Digital Input Data(CH 0)	0x00000000(0)			
	Digital Input Data(CH 1)	0x00000001(1)			
	Digital Input Data(CH 2)	0x00000002(2)			
	Digital Input Data(CH 3)	0x00000003(3)			
	Digital Input Data(CH 4)	0x00000004(4)			
	Digital Input Data(CH 5)	0x00000005(5)			
	Digital Input Data(CH 6)	0x00000006(6)			
	Digital Input Data(CH 7)	0x00000007(7)			
	Digital Input Data(CH 8)	0x00000008(8)			
	Digital Input Data(CH 9)	0x00000009(9)			
	Digital Input Data(CH 10)	0x0000000A(10)			
	Digital Input Data(CH 11)	0x0000000B(11)			
	Digital Input Data(CH 12)	0x0000000C(12)			
	Digital Input Data(CH 13)	0x0000000D(13)			
	Digital Input Data(CH 14)	0x0000000E(14)			
	Digital Input Data(CH 15)	0x0000000F(15)			
1# LD-1016 (16DI 24Vdc)Sink_1# 16DI Counter Submodule					
	Input Counter Value(CH 0)		0x00000000(0)		
	Input Counter Value(CH 1)		0x00000002(2)		
	Input Counter Value(CH 2)		0x00000004(4)		
	Input Counter Value(CH 3)		0x00000006(6)		
	Input Counter Value(CH 4)		0x00000008(8)		
	Input Counter Value(CH 5)		0x0000000A(10)		
	Input Counter Value(CH 6)		0x0000000C(12)		
	Input Counter Value(CH 7)		0x0000000E(14)		
	Input Counter Value(CH 8)		0x00000010(16)		
	Input Counter Value(CH 9)		0x00000012(18)		
	Input Counter Value(CH 10)		0x00000014(20)		
	Input Counter Value(CH 11)		0x00000016(22)		
	Input Counter Value(CH 12)		0x00000018(24)		

1 Node Overview 2 Inquiry 3 Image View 4 Address Map 5 Parameters

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5 Parameters

5 Parameters												
Adapter	Module	Submodule	Irder Numbe	Slot	Parameter Group	Parameter Value						
LC-1101 Modbus-TCP(COM1)			CN-8031	0-0	adaptor Config Parameter	Force of Configuration Da	Configuration Software					
						Fault Action for Input	Hold Last Input Value					
						Fault Action for Output	Hold Last Output Value					
						Port Mirroring	Disable					
						Sniffer Port	LAN1					
						Linkdown Detection	Enable					
						Modbus Disconnected Detect	Enable					
						Byte Swap (Digital to Anal	Enable					
						FieldBus Config Parameter						MAC Address 00:00:00:00:00
												IP Address 0.0.0.0
												Net Mask 0.0.0.0
						Net Gateway 0.0.0.0						
						Modbus Port 502						
						Watchdog Enable						
						Reserved 0						
						Watchdog Time(s) 30						
LD-1016 (16DI 24Vdc)Sink			LD-1016	1-0	Module Config Parameter	Input Filtering Time(ms)	10					
						Input Holding Time(ms)	Disable					
						Reserved	0					
16DI Counter Submodule				1-1	Module Config Parameter	Input Filtering Time(ms)	10					
						Input Holding Time(ms)	Disable					
						Reserved	0					
LD-3016 (16DI 24Vdc)Source			LD-3016	2-0	Module Config Parameter	Input Filtering Time(ms)	10					
						Input Holding Time(ms)	Disable					
						Reserved	0					

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### 3.10 EDS file export

New project -> Add coupler module -> Select LC - 3101 -> Right click on coupler module -> Export EDS file  
 New project -> Add coupler module -> Select LC-3101 -> Right click on coupler module -> Export EDS file.

