# 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**

- 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.
- Digital Input Module (DI): The DI module introduces the concept of submodules, 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.
- 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

# Contents

1.	Software installation6
2.	Interface introduction7
2	1 Main menu8
2	2 Toolbar9
2	3 Project window 10
2	4 Properties window 11
2	5 Main window
2	6 Message window14
2	7 Shortcut keys
3.	Software operation 16
3	.1 Function introduction
3	2 Communication interface17
3	3 Module selection
3	4 View and modify KYIO-L series IO configuration parameters
3	5 Online debugging KYIO-L series IO module
3	.6 Search device (only for MODBUS TCP communication)
3	7 Update device library files (hardware support package)
3	8 Device firmware upgrade40
3	9 Data export
3	10 EDS file export

# 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.





# 2. Interface introduction

KYIOLConfig						- 0	) X
File Tool Option Help Menu Bar							
🛛 😋 New Project 📄 💾 Save All(Ctrl+S) 🔂 🙀	📿 Search	n Device  Device L	Jpdate 🚺	🚺 Toolbar			
Project 🗸 🗸 🗸	Module In	nformation Process Da	ata Config Pa	rams Address Map	Installation Information		÷
	Name	Project Value			Online Value		
Project Window				Main Windo	ws		
Properties 🗸 🗸 🖡							
	Logs ::::::				1		<b>.</b> • p
	*	DATE	TIME	SOURCE	MESSAGE		
	Info	2023-10-25	2:29:13 pn	Main	Load:GSD\GSDML-V2.33-KYLAND	-BLADEIO-2	20230706.on
Properties Window		2023-10-25	2:29:13 pn	Main	KYIOLConfigStarted! current version		
				Message Wind	dow		
							►

- 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

🗖 New Proj	😪 New Project   🗁   🖺 Save All(Ctrl+S)   📻   🍄   📿 Search Device   🕖 Device Update   🚺 🚺									
lcon	Name	Menu	Description							
2	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							
<u></u>	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							
0	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

	nline ি Upload Pa	rams 🛃 Download Params 🛍				
lcon	Name	Menu	Description			
	module	Coupler-Module	Add IO module			
<b>1</b> 13	management	Management				
	online	Coupler-Online	Coupler module and IO module			
			online monitoring			
cla	Download IO	Coupler - Download IO	Download all parameters of the			
	parameters	parameters	module			
	Upload IO	Coupler-upload IO	Upload all parameters of the			
	parameters	parameters	module			
l 🔒 🗌	delete	coupler-remove	Delete the current coupler			
U UU U			module			
	Rename	Coupler - Rename	Coupler module renamed			
L/						
	сору	Coupler-Copy	Duplicate coupler and downlink			
			IO module			

Ð	Export address table	coupler - export address table	Export the address correspondence between the
. — .			coupler module and the IO
	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

KYLAND

#### Displays currently active projects in a tree format,

KYIOLConfig							—		$\times$	
File Tool Option	n Help									
📚 New Project 📄 🔀	Save All(Ctrl+S)	🔾 Search Device	Uevice U	Jpdate 🚺	🕕 🔡 🔛 Online	Upload Para	ms 🛃 Download Params 💼 🥞 🕞			
Project	<del>v</del> p	Module Information Process Data Config Params Address Map Installation Information								
A 🗥 NewProject	Name	Projec	t Value			Online Value				
4 😪 LC-2101 Modb	Name	LC-210	1 Modbus							
11D-1016 (16				8011						
		Vendor Name	kyland							
	Description	Modbu	is Slave Adapt	or						
9 3:LD-1308 (8D	I 24Vdc)Sink	Current Consump	tion -2500n	nA						
4:LD-5032 (32	DI 24Vdc)Src or Sink									
5:LA-4008 (8A	O 0-5,0-10,±5,±10 Vdc)									
6:LD-2008 (8D	O 24Vdc)Source TTL									
Properties	<b>-</b> 1									
Name	LC-2101 Modbus									
Module ID	0x80008011									
Description	Modbus Slave Adaptor	Logs							<b>▼</b> ậ	
Device version	V1.00	•	DATE	TIME	SOURCE	MESSAGE				
Module Number	6	🔵 Info 🛛	2023-10-25	2:29:13 pn	Main	Load:GSD\GSDM	L-V2.33-KYLAND-BLADEIO-20230706.oml			
Interface	SerialPort 🔹	🔵 Info 🛛	2023-10-25	2:29:13 pn	Main	KYIOLConfigStart	ed! current version:1.0.1.0			
Device IP	192.168. 1 .100	🔵 Info 💠	2023-10-25	2:36:17 pn	NewProject	Commboard LC-2	101 Modbus has been created!			
СОМ	COM1 👻	🔵 Info 🛛 🕄								
Refresh Period	200									
_profile										

#### 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.

KYIOLConfig							- O ×	
File Tool Opti	on Help							
🕄 穴 New Project 🧀	💾 Save All(Ctrl+S) 📻 🙋	📿 Search Device	\rm Device L	Jpdate 🚺	🕕 🛿 🔡 ⊵ Online	e 🝙 Upload Para	ms 🛃 Download Params 💼 🥞 🕞 💽 🥪	
Project	<b>▼</b> 1	Module Information	Process Da	ata Config Pa	arams Address Map I	nstallation Informat	ion	
▲ 🗥 NewProject		Name	Name Project Value				Online Value	
4 🔍 I C-2101 Mod	lbus(COM1)	Name	LC-210	1 Modbus				
	16DL 24)/dc)Sink	Module ID	0x8000	8011				
		Vendor Name	kyland					
2:LD-3016 (1	16DI 24Vac)Source	Description	Modbu	s Slave Adap	tor			
9 3:LD-1308 (8	3DI 24Vdc)Sink	Current Consumpt	Current Consumption -2500mA					
4:LD-5032 (3	32DI 24Vdc)Src or Sink	· · ·						
5:LA-4008 (8	3AO 0-5,0-10,±5,±10 Vdc)							
6:LD-2008 (8	3DO 24Vdc)Source TTL							
Properties	<b>→</b> ậ	1						
Name	LC-2101 Modbus							
Module ID	0x80008011							
Description	Modbus Slave Adaptor	Logs					•	
Device version	V1.00	* D	ATE	TIME	SOURCE	MESSAGE		
Module Number	6	Info 20	023-10-25	2:29:13 pn	Main	Load:GSD\GSDMI	L-V2.33-KYLAND-BLADEIO-20230706.oml	
Interface	SerialPort 🔻	Info 20	023-10-25	2:29:13 pn	Main	KYIOLConfigStart	ed! current version:1.0.1.0	
Device IP	192.168. 1 .100	Info 20	23-10-25	2:36:17 pn	NewProject	Commboard LC-2	101 Modbus has been created!	
COM	COM1 •	Info 20	023-10-25	2:40:03 pn	LC-2101 Modbus(CC	Module Manager		
Refresh Period	200							
_p	~							
KYIOLConfig							- • ×	
File Tool Optio	on Help							
🐟 New Project 🧁	💾 Save All(Ctrl+S) 📊 🙋	C Search Device	💵 Device U	pdate 🚺	0 🛚 📰 💼 🦵	⊡ ⊘ 🗗		
Project		Module Information	Process Da	ita Config Pa	irams Address Map Ir	nstallation Informati	ion	
▲ 🗥 NewProject		Name	Project	t Value			Online Value	
4 🔍 I C-2101 Mod	bus(COM1)	Name	LD-101	LD-1016 (16DI 24Vdc)Sink				
		Module ID	0x8000121F					
	16DI 24Vdc)Seurce	Description	16 Digit	al Input ,DC :	2 <b>4</b> V,Sink Type			
P 2.LD-3010 (1	16DI 24Vac/Source	Current Consumpti	on 60mA					
9 3:LD-1308 (8	3DI 24Vdc)Sink							
4:LD-5032 (3	32DI 24Vdc)Src or Sink							
5:LA-4008 (8	3AO 0-5,0-10,±5,±10 Vdc)							
6:LD-2008 (8	3DO 24Vdc)Source TTL							
Descention	- N	1						
Name	ID-1016 (16DI 24Vdc)Sin							
Name Modulo ID	LD-1016 (16DI 24Vdc)Sin							
Name Module ID Description	LD-1016 (16DI 24Vdc)Sin 0x8000121F 16 Digital Input DC 24V	Logs					•	
Name Module ID Description Submodule Number	LD-1016 (16DI 24Vdc)Sin           0x8000121F           16 Digital Input ,DC 24V           0	Logs	ATE	TIME	SOURCE	MESSAGE	T	
Name Module ID Description Submodule Number	LD-1016 (16DI 24Vdc)Sin 0x8000121F 16 Digital Input ,DC 24V 0	Logs	<b>ATE</b> 123-10-25	<b>TIME</b> 2:29:13 pn	SOURCE Main	MESSAGE Load:GSD\GSDML	V2.33-KYLAND-BLADEIO-20230706.oml	
Name Module ID Description Submodule Number	LD-1016 (16DI 24Vdc)Sin 0x8000121F 16 Digital Input ,DC 24V 0	Logs * D. Info 20 Info 20	<b>ATE</b> 123-10-25 123-10-25	TIME 2:29:13 pn 2:29:13 pn	SOURCE Main Main	MESSAGE Load:GSD\GSDML KYIOLConfigStarte	V2.33-KYLAND-BLADEIO-20230706.oml edi current version:1.0.1.0	
Name Module ID Description Submodule Number	LD-1016 (16DI 24Vdq)Sin 0x8000121F 16 Digital Input ,DC 24V 0	Logs D Info 20 Info 20 Info 20 Info 20	ATE 123-10-25 123-10-25 123-10-25	TIME 2:29:13 pn 2:29:13 pn 2:36:17 pn	SOURCE Main Main NewProject	MESSAGE Load:GSD\GSDML KYIOLConfigStarte Commboard LC-2	V2.33-KYLAND-BLADEIO-20230706.oml adl current version:1.0.1.0 101 Modbus has been created!	
Name Module ID Description Submodule Number	LD-1016 (16DI 24Vdq)Sin 0x8000121F 16 Digital Input ,DC 24V 0	Logs	ATE 123-10-25 123-10-25 123-10-25 123-10-25	TIME 2:29:13 pn 2:29:13 pn 2:36:17 pn 2:40:03 pn	SOURCE Main Main NewProject LC-2101 Modbus(CC	MESSAGE Load:GSD\GSDML KYIOLConfigStarte Commboard LC-2	<ul> <li>✓</li> <li>✓</li></ul>	
Name Module ID Description Submodule Number	LD-1016 (16DI 24Vdq)Sin 0x8000121F 16 Digital Input ,DC 24V 0	Logs	ATE 123-10-25 123-10-25 123-10-25 123-10-25	TIME 2:29:13 pn 2:29:13 pn 2:36:17 pn 2:40:03 pn	SOURCE Main Main NewProject LC-2101 Modbus(CC	MESSAGE Load:GSD\GSDML KYIOLConfigStarte Commboard LC-2 Module Minoger	<ul> <li>✓ .</li> <li>-V2.33-KYLAND-BLADEIO-20230706.oml</li> <li>sd! current version:1.0.1.0</li> <li>101 Modbus has been created!</li> </ul>	

#### 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.

KYIOLConfig									-	×
File Tool Opti	on Help									
🔁 🗠 New Project	🐴 Save All(Ctrl+S) 🔂 🎼	🔾 Search Device	Device Upda	ate 🚺	0 🗄 📰 💼 🕞	⊡ ⊘ 🗗				
Project	<b>→</b> ‡	Module Information	Process Data	Config Pa	rams Address Map Ir	stallation Informat	ion			Ŧ
▲ 🗥 NewProject		Name	Project Val	lue			Online Value			
▲ ▲ IC-2101 Modbus(COM1)		Name	LD-1016 (16	6DI 24Vdc	)Sink					
			0x8000121F	F						
	1.LD-1016 (16DI 24Vdc)Sink		16 Digital Ir	nput ,DC 2	4V,Sink Type					
2:LD-3016 (	6DI 24Vdc)Source	Current Consumptio	n 60mA							
91 3:LD-1308 (8	DI 24Vdc)Sink									
4:LD-5032 (3	2DI 24Vdc)Src or Sink									
5:LA-4008 (8	AO 0-5,0-10,±5,±10 Vdc)									
6:LD-2008 (8	DO 24Vdc)Source TTL									
Properties	<b>–</b> ņ									
Name	LD-1016 (16DI 24Vdc)Sin									
Module ID	0x8000121F									
Description	16 Digital Input ,DC 24V	Logs								 » <b>▼                                   </b>
Submodule Number	0	* DA	TE TI	IME	SOURCE	MESSAGE				
		Info 202	3-10-25 2:	:29:13 pn	Main	Load:GSD\GSDMI	L-V2.33-KYLAND-BL	LADEIO-20230706		
		Info 202	3-10-25 2:	29:13 pn	Main	KYIOLConfigStart	ed! current version:			
			3-10-25 2:	:36:17 pn	NewProject	Commboard LC-2	101 Modbus has be	een created!		
		202	3-10-25 22	<del>40:05 p</del> h						

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

KYIOLConfig								_	×
File Tool Optic	on Help								
🖹 究 New Project 📴 🕻	🐴 Save All(Ctrl+S) 🗮 🏠	🔾 Search Dev	rice  Device U	pdate 🚺	🕛 🛛 🕄 🛍 🗍	7 🖬 🕑 🗗			
Project	• <b>1</b>	Module Inform	ation Process Da	ta Config Pa	arams Address M	ap Installation Infor	mation		Ŧ
▲ ☆ NewProject		IO Input:							
▲ 😪 LC-2101 Mod	bus(COM1)	NAME		TYPE	ONL	NE VALUE			
11/LD-1016 (1	6DI 24Vdc)Sink	<ul> <li>Digital</li> </ul>	Input Data(CH 0-7	7) Unsig	gned8				
2:10-3016 (1	6DI 24Vdc)Source	📀 Digital	Input Data(CH 8-1	15) Unsig	gned8				
9 3:LD-1308 (8	DI 24Vac)SINK								
4:LD-5032 (3	2DI 24Vdc)Src or Sink								
5:LA-4008 (8	AO 0-5,0-10,±5,±10 Vdc)								
6:LD-2008 (8	DO 24Vdc)Source TTL								
Properties	<b>•</b> 1								
Name	LD-1016 (16DI 24Vdc)Sin								
Module ID	0x8000121F								
Description	16 Digital Input ,DC 24V	Logs							 <b>▼</b> ₽
Submodule Number	0	* •	DATE	TIME	SOURCE	MESSAGE		AD510, 20220706	
			2023-10-25	2:29:13 pn	Main		DML-V2.33-KYLAND-BL	ADEIO-20230706.om	
			2023-10-25	2:29:13 pn	Main	KYIOLCONTIGS	tarted: current version:		
			2023-10-25	2:36:17 pn	NewProject	Commboard	C-2101 Modbus has be	en created!	_
			2023-10-25	2:40:03 pn	LC-2101 Modbu	s(CC Module Mana	ger		

Configuration parameters: Display KYIO-L series IO module parameters,

modifiable module parameters.

KYIOLConfig	9						-	$\times$
File Tool	Optio	n Help						
🔜 New Proje	ect 📄 📙	Save All(Ctrl+S)	🔾 Search Device 🚺	Device Update 🚺	0 🗄 📰 🕅 🕞			
Project		- <b>t</b>	Module Information P	ocess Data Config P	arams Address Map Ir	nstallation Information		Ŧ
▲ 🗥 NewPr	roject		Module Config Parame	ters				
⊿ 😪 LC-2	101 Modk	ous(COM1)	Name	Param Value				
<b>1</b> 11	D-1016 (16	5DI 24Vdc)Sink	Input Filtering Time(m	s) 10				
21	D-3016 (16	DI 24Vdc)Source	Input Holding Time(m:	) Disable	•			
10-10 10-10	D-1308 (80	0L24Vdc)Sink						
1000	D-5032 (32	2DI 24Vdc)Src or Sink						
i interest	A 4008 (9/							
Υ <u></u>	A-4008 (84	(O 0-5,0-10,±5,±10 vuc)						
P6:L	.D-2008 (8L	DO 24Vdc)Source TTL						
Properties		<b>4</b>						
Name		LD-1016 (16DI 24Vdc)Sin						
Module ID		0x8000121F						
Description		16 Digital Input ,DC 24V	Logs	TINAE	COURCE	MESSAGE		 . <b>–</b> ф
Submodule	Number	0	DATE	10-25 2:29:13 pm	Main	Load GSD GSDML-V2 33-KYLAND-BL	ADEIO-20230706 om	
			Info 2023-	10-25 2:29:13 pm	Main	KYIOLConfigStarted! current version:		
			Info 2023-	10-25 2:36:17 pn	NewProject	Commboard LC-2101 Modbus has be	een created!	
			lnfo 2023-	10-25 2:40:03 pn	LC-2101 Modbus(CC	Module Manager		
			4					•

Address Table: Displays the address mapping table for the selected KYIO-L

series IO module.

KYIOL	.Config									- 0	×			
File	Tool C	Option Help												
🔷 Nev	v Project 📔	) 💾 Save All(Ctrl+S) 📰 🎼	🔍 Search Dev	vice  Device l	Jpdate 🚺	0 🗄 🛍 🗖	▣ 🕑 🗗							
Project		<b>•</b> ņ	Module Inform	nation Process Da	ata Config Pa	rams Address Map Ir	nstallation Information				Ŧ			
4 <b>6</b> N	VewProject		Name		: Word(3xxxx)	Output Wo	rd(4xxxx							
⊿ 😣	LC-2101 N	/lodbus(COM1)		○ 1# LD-1016 (16DI 24Vdc)Sink										
	11 D-10	16 (16DI 24Vdc)Sink	Digital Input	Data(CH 0)		0x0000000								
			Digital Input	Data(CH 1)		0x0000001								
	2:LD-30	16 (16DI 24Vac)Source	Digital Input	Data(CH 2)		0x0000002								
1	3:LD-13	08 (8DI 24Vdc)Sink	Digital Input	Data(CH 3)		0x0000003								
	4:LD-50	32 (32DI 24Vdc)Src or Sink	Digital Input Data(CH 4)			0x00000004								
	🗐 5:LA-400	08 (8AO 0-5,0-10,±5,±10 Vdc)	Digital Input	Data(CH 5)		0x0000005								
	6:LD-200	08 (8DO 24Vdc)Source TTL	Digital Input Data(CH 6)			0x0000006								
			Digital Input Data(CH 7)			0x0000007								
Propertie	95		4						•		•			
Name	I- ID	0v80001315							Export	Map				
Doscri	intion	16 Digital Input DC 24V	Logs								т д			
Submo	odule Numb	er 0	*	DATE	TIME	SOURCE	MESSAGE							
			🚺 🔵 Info	2023-10-25	2:29:13 pn	Main	Load:GSD\GSDML-V2.33-K	YLAND-B	LADEIO-20230706.o					
			🔵 Info	2023-10-25	2:29:13 pn	Main	KYIOLConfigStarted! curren	t version:						
			🕘 Info	2023-10-25	2:36:17 pn	NewProject	Commboard LC-2101 Mod	bus has b	een created!					
			🕘 Info	2023-10-25	2:40:03 pn	LC-2101 Modbus(CC	Module Manager							
											►			

**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.

KYIOLConfig						- • ×
File Tool Option	n Help					
🛛 🐟 New Project 📄 🖁	Save All(Ctrl+S)	🔾 Search Devic	e 🚺 Device U	pdate 🚺	🚺 🔡 💽 Online	e 🕞 Upload Params 🛃 Download Params 💼 🕞 💽 🔛
Project	<b>ņ</b>	Module Informa	tion Process Da	ta Config Pa	rams Address Map In	Installation Information
▲ NewProject ▲ C-2101 Modb 1:LD-1016 (16 1:LD-1016 (16 1:LD-3016 (16 1:LD-3032 (32 1:LD-5032 (32 1:LD-5032 (32 1:LD-5038 (8A	us(COM1) DI 24Vdc)Sink DI 24Vdc)Source DI 24Vdc)Sink DI 24Vdc)Src or Sink (D 0-5,0-10,±5,±10 Vdc)	LC-2101 M Description:M Current Outpu Module Size:L Total Residual Total Size:L*W	Iodbus Slave Ada ut(System power *W*H=115*52*7 Current:1655 m/ *H=115*136*75	ptor supply):2500 5 (mm) A (mm)	mA	
Properties	DO 24Vdc)Source TTL ▼ ↓ LC-2101 Modbus					
Module ID	0x80008011		alalala			
Description	Modbus Slave Adaptor					
Device version	V1.00	Logs				Į ▼
Module Number	6	*	DATE	TIME	SOURCE	MESSAGE
Interface	SerialPort 🔻	🔵 Info	2023-10-25	2:29:13 pn	Main	Load:GSD\GSDML-V2.33-KYLAND-BLADEIO-20230706.oml
Device IP	192.168. 1 .100	🔵 Info	2023-10-25	2:29:13 pn	Main	KYIOLConfigStarted! current version:1.0.1.0
СОМ	COM1 •	🔵 Info	2023-10-25	2:36:17 pn	NewProject	Commboard LC-2101 Modbus has been created!
Refresh Period	200	🔵 Info	2023-10-25	2:40:03 pn	LC-2101 Modbus(CC	Module Manager
_profile	6					
	Ŭ	•				)

# 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.

KYIOL	Config										_		×
File	Tool	Option	Help										
🔷 New	Project	🚞 🔡 Sa	ve All(Ctrl+S)	<b>ii</b> 🖗	📿 Searc	h Device IJ	Device l	Jpdate 🚺	0				
Project 3				<b></b>	Module Ir	nformation P	rocess Da	ata Config Pa	rams Addre	ess Map Installation Information			Ŧ
					Name	Project Val	ue			Online Value			
Propertie	s												
						_							
					Logs 🕬	******		······					: ▼ Д
					*	DATE	10.25	TIME	SOURCE	MESSAGE			0706
						2023	10.25	2:29:15 pn	Main		vrrent version:1.0.	EIU-20230	0706.on
						2023	-10-25	2.29.15 pi	IVIdITI	KHOLConligstarted: 0	inent version. i.o.		
										-			•

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.

KYIOLConfig		KYIOLConfig		8	KYIOLConfig		
File Tool	Option Help	File Tool (	Option Help		File Tool	Option Help	
🔍 New Project 🕻	늘 💾 Save All(Ctrl+S) 📑 🏹	New Project	- Save All(Ctr	(+s) 🔜 😥 🔤	Project 🕨	🔩 New Project	<b>E</b> 🕸
Project		Project		······································	) Exit	🦻 Open Project	. 👻 д
						Save All(Ctrl+S)	
	_						
😭 Project	🕨 🔩 New Project					Save As	
	📄 Open Project					Paste(Ctrl+V)	
	🖺 Save All(Ctrl+S)						
	🔜 Save As						
	Paste(Ctrl+V)						
New Project	×						
Project Na	me						
C	OK Cancel						
KYIOLConfig						_	o ×
File Tool Optio	n Help						
🔍 New Project 📄	Save All(Ctrl+S)	Device 🕔 Device Update 🚺					-
Project	✓ ↓ Module In	formation Process Data Config	Params Address Map	nstallation Information			Ŧ
A NewProject							
Properties	- ŋ						
Upload Interface	SerialPort 🔹						
СОМ	COM1 ·						
Device IP	192.168. 1 .100						
	Logs ·····	DATE TIME	SOURCE	MESSAGE			• <b>1</b>
	🔵 🕒 Info	2023-10-25 2:29:13 p	n Main	KYIOLConfigStarted! curr	ent version:1.0.1.0		-
	Info	2023-10-25 2:36:17 p	n NewProject	Commboard LC-2101 Mo	odbus has been crea	ted!	
		2023-10-25 2:40:03 p	n LC-2101 Modbus(CC	Module Manager			
		010-0-02 3.05/00	A STREET AND ADDREET AND ADDREET ADDRE ADDREET ADDREET ADDREET ADDREET ADDREET ADDR				

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.'

KYIOLConfig	Mew Adapter	×
File Tool Option Help	Project Name	
New Project 📄 🖺 Save All(Ctrl+S) 🔂 🔯	NewProject	
Project 🗸 🗸 🗸	Name	
NewProject           New Adapter           Delete Project           Upload Modules           Rename           Save The Project	LC-2101 Modbus LC-2201 Profibus-DP LC-2501 CC-Link LC-3101 CANopen LC-1101 Modbus-TCP LC-1301 Profinet-IO	
Copy(Ctrl+C)	Description	
Paste(Ctrl+V)	Modbus-TCP Server Adaptor	
O Up O Down	Communication Setting	
Upload Inte	InterfaceSerialPortCOMCOM1Device IP192.168.1.100	
	ОК	Cancel

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.

KYIOLConfig								- 0	×
File Tool Op	otion Help								
🖹 究 New Project 🪞	Save All(Ctrl+	s) 💼 🔯	📿 Search Devic	e 🚺 Device U	pdate 🚺	🕕 🛛 🔡 ⊵ Online	Upload Params	🖖 Download Params  💼 🥞 🕞 😂	
Project		<b>-</b> ņ	Module Informat	tion Process Da	ta Config Pa	rams Address Map In	stallation Information		Ŧ
▲ 🗥 NewProject			LC-1101 M	odbus-TCP					
😪 LC-1101 M	и терусом		Description:Me	odbus-TCP Serve	er Adaptor				
	👪 Module Mar	nager	Current Outpu	t(System power	supply):2500	mA			
	🖭 Online		Module Size:L'	W*H=115*52*7	5 (mm)				
	存 Upload Para	ms	Total Residual	Current:2500 m/	4				
	Download P	arams	Total Size:L*W	°H=115*52*75 (r	mm)				
	Delete								
	🕻 🕻 Rename		<b>8</b> 8						
	Copy(Ctrl+C	)							
	Paste(Ctrl+V	)							
Properties	📀 Up	1							
Module ID	🕑 Down		88						
Description	E Export Map								
Device version		mont	Logs						<b>•</b> • •
Module Number		inent	*	DATE	TIME	SOURCE	MESSAGE		+
Interface	SerialPort	-	Info	2023-10-25	2:36:17 pn	NewProject	Commboard LC-2101	Modbus has been created!	
Device IP	192.168.1	. 100	🔵 Info	2023-10-25	2:40:03 pn	LC-2101 Modbus(CC	Module Manager		
COM	COM1	•	🔵 Info	2023-10-25	3:09:20 pn	NewProject	Project NewProject del	eted!	- 1
Refresh Period	200		🔵 Info	2023-10-25	3:09:20 pn	LC-2101 Modbus(CC	Offline!		
confirmCount	0		🕘 Info	2023-10-25	3:22:02 pn	NewProject	Commboard LC-1101	Modbus-TCP has been created!	
			•						



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

IIII Module Manager		- 🗆 X
Module Avaliable		Module Selected
🕨 🚞 Analog Input Module		LC-1101 Modbus-TCP
🔺 <u> </u> Analog Output Module		1:LA-4008 (8AO 0-5,0-10,±5,±10 Vdc)
LA-4004 (4AO 0-5,0-10,±5,±10 Vdc)		2:LA-4008 (8AO 0-5,0-10,±5,±10 Vdc)
LA-4008 (8AO 0-5,0-10,±5,±10 Vdc)		13:LA-4008 (8AO 0-5,0-10,±5,±10 Vdc)
LA-2004 (4AO 0~20mA,4~20mA)		<b>√</b> 4:LA-4008 (8AO 0-5,0-10,±5,±10 Vdc)
▷ 🛅 Digital Input Module		<b>1</b> 5:LA-4008 (8AO 0-5,0-10,±5,±10 Vdc)
🕨 🛅 Digital Output Module	<<	≨ 16:LA-4008 (8AO 0-5,0-10,±5,±10 Vdc)
▶ 🛅 Multi-Module	>>	
🕨 🛅 Power Module		
Decial Module		
		-500 (Warning: Power consumption is too high, power module needs to be added at slot 6. Insufficient power supply will cause abnormal operation of the module)
8 Analog Output ,0~5Vdc , -5~5Vdc , 0~10Vdc , Slots:1-32)	-10~	10Vdc(Current Consumption:500 mA Supported
		OK Cancel

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.

25

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KYIOLConfig													-		×
File Tool Optio	n Help														
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Project	👻 🗖	Module Informa	ation Process Da	ata Config Pa	arams Address Map	nstallation Information									=
NewProject      Schultzeite     NewProject      Schultzeite     Schultzeite     Schultzeite     Schultzeite     Schultzeite     Schultzeite     Schultzeite     Schultzeite     Schultzeite     NewProject      Schultzeite     Schultzei	AQ 0-5,0-10,±5,±10 Vd AQ 0-5,0-10,±5,±10 Vd AQ 0-5,0-10,±5,±10 Vd AQ 0-5,0-10,±5,±10 Vd SDI 24Vdc)Sink SDI 24Vdc)Sink SDI 24Vdc)Sink SDI 24Vdc)Sink	LC-1101 M Description: Current Outp Module Sizei Total Residua Total Sizei. <sup>1</sup> V	Addbus-TCP todbus-TCP Serv ut(System power W'H=115*52*1 I Current:960 mA /*H=115*500*75	er Adaptor r supply):2500 75 (mm)											
Name	LC-TTUT Modbus-TCP			88 88 88			38 38	88 88	88 88	88 8	88	88	88 88	88 88	1
Module ID	0x80008031														4
Description	Modbus-TCP Server Ad														
Device version	V1.00	Logs													• <b>•</b> ‡
Interface	SerielDert T		DATE	TIME	SOURCE	MESSAGE									
interiace		🔵 Info	2023-10-25	2:40:03 pn	LC-2101 Modbus(CC	Module Manager									
Device IP	192.168.1.100	🔵 Info	2023-10-25	3:09:20 pn	NewProject	Project NewProject de	leted!								1.0
сом	COM1 •	🔵 Info	2023-10-25	3:09:20 pn	LC-2101 Modbus(CC	Offline!									- 1
Refresh Period	200	🔵 Info	2023-10-25	3:22:02 pn	NewProject	Commboard LC-1101	Modbus-1	CP has b	een crea	ted!					- 1
_profile	0	🕒 Info 🔄	2023-10-2 <u>5</u>	3:38:21 pn	LC-1101 Modbus-TC	Module Manager									
contirmCount	U														
															P

# 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".

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KYIOLConfig								-	. 🗆	×
File Tool Op	tion Help									
🔍 New Project 📄	Save All(Ctrl+S)		🔾 Search Devic	e 🕖 Device Up	date 🚺	🕕 🔡 🔡 Online	🛛 🖓 Upload Params 🔂 Download Params	🛍 🌄 🖬 💽 😒		
Project		- 🕶 🏚	Module Informa	tion Process Dat	a Config Pa	rams Address Map Ir	nstallation Information			Ŧ
A 🔗 NewProject			Adaptor Config							
b 😫 LC-1			Name		Param Va	alue				
	odule Manager		Source of Confi	guration Data	Configura	ition Software 🔻				
🖻 O	nline		Fault Action for	Input	Hold Last	Input Value 🔻				
<b>Թ</b> Ս	pload Params		Fault Action for	Output	Hold Last	Output Value 🔻				
d D	ownload Params		Port Mirroring		Disable	•				
	alata		Califfar Dart		LANI	-				
	U Delete				LAINT					
L> Re	ename		Linkdown Dete	ction	Enable	•				
🖸 🖸 Ca	opy(Ctrl+C)		Modbus Discor	nected Detection	Enable	•				
Pa	aste(Ctrl+V)		Byte Swap (Dig	ital to Analog)	Enable	•				
Properties 🔅 🔿 U	p	<b>-</b> ‡	FieldBus Config Parameters							
Name	own	СР	Name	Param Value	e					
Module ID	rport Map	r A d	MAC Address	00 : 00 : 00	: 00 : 00 :	00				
Device versio	port document	r Au								
Module Number			Logs *	DATE	TIME	SOURCE	MESSAGE			· • #
Interface	SerialPort	•	l Info	2023-10-25	2:40:03 pm	IC-2101 Modbus(CC	Module Manager			
Device IP	192.168. 1.100		lnfo	2023-10-25	3:09:20 pm	NewProject	Project NewProject deleted!			
СОМ	COM1	•	Info	2023-10-25	3:09:20 pn	LC-2101 Modbus(CC	Offline!			
Refresh Period	200		Info	2023-10-25	3:22:02 pn	NewProject	Commboard LC-1101 Modbus-TCP has beer	created!		
_profile	0	_	🔵 Info	2023-10-25	3:38:21 pn	LC-1101 Modbus-TC	Module Manager			
commicount	U		4							

Modbus TCP (LC-1101) configuration parameter interface:

#### Modbus RTU (LC-2101) configuration parameter interface:

KYIOLConfig									-	×
File Tool (	Optio	on Help								
🔍 New Project		🖞 Save All(Ctrl+S)	🔾 Search Dev	ice 🚺	Device	Update 🚺	🕕 🛛 🔡 🛄 Online	e 存 Upload Params 🛃 Downlo	oad Params 💼 🌄 💽 💽 😂	
Project	00000	<b>- </b>	Module Inform	ation	Process D	Data Config Pa	irams Address Map Ir	nstallation Information		Ŧ
A 🗥 NewProject			Adaptor Confi							
► 1C-2101			Name			Param Value				
C-2101	5	Module Manager	Source of Cor	figurat	ion Data	Configuratio	n Software 🔻			
	<u>.</u>	Online	Fault Action fo	or Input		Hold Last Inp	ut Value 🔻			
	ዋ	Upload Params	Fault Action fo	or Outp	ut	Reset Output	Value 🔻			
	ዋ	Download Params	FieldBus Confi	g Paran	neters					الم
	ŵ	Delete	Name		Param	Value				
		Rename	Slave ID		1					
	Đ	Copy(Ctrl+C)	BaudRate		9600 bp	os 🔻				
		Paste(Ctrl+V)	Data Bits		8 Bits	•				
Properties	$\odot$	Up	Parity Bits		None Pa	arity 🔻				
Name	$\odot$	Down	Stop Bits		1 Bit	-				
Description	₽	Export Map	Serial Mode		RTU	•				-
Device version		Export document	Logs						•	- <b>1</b>
Module Number			*	DAT	E	TIME	SOURCE	MESSAGE		
Interface		SerialPort 🔹	🔵 Info	2023	8-10-25	3:22:02 pn	NewProject	Commboard LC-1101 Modbus-TC	P has been created!	
Device IP		192.168. 1 .100	🔵 Info	2023	8-10-25	3:38:21 pn	LC-1101 Modbus-TC	Module Manager		
COM		COM1 •	🔵 Info	2023	8-10-25	5:31:13 pn	LC-1101 Modbus-TC	Delete		
Refresh Period		200	🔵 Info	2023	8-10-25	5:31:13 pn	LC-1101 Modbus-TC	Offline!		
_prome		0	🕒 Info	2023	8-10-25	5:31:31 pn	NewProject	Commboard LC-2101 Modbus ha	s been created!	
		*								<u> </u>

KYIOLConfig											-	×
File Tool	C	Option	Help									
🔍 🔩 New Proje	ct   🕻	🛛 🕄 s	ave All(Ctrl+S)		📿 Search Devi	e 🕖 Device	e Update 🚺		🐻 💽 Online	🕞 Upload Params 🛃	Download Params 💼 🕞 💽 🔂 😂	
Project				· 🕶 🏨	Module Informa	tion Process	Data Config Pa	rams 🖌	Address Map In	stallation Information		₹
▲ 🗥 NewPro	oject				Adaptor Config	Parameters						
😣 L C-31	-			1	Name		Param Value					
5.00	8	Modul	e Manager		Source of Conf	iguration Data	Configuration	n Softwa	are 🔻			
	<u>•</u>	Online			Fault Action fo	Input	Hold Last Inp	ut Value	• •			
	ዋ	Upload	Params		Fault Action fo	Output	Reset Output	Value	•			
	ዋ	Downle	oad Params		FieldBus Config	Parameters	·					
'	ŵ	Delete			Name	ranameters	Param Value					
		Renam	e		CANopen Slave	Address	1					-1
	₽	Copy(C	`trl+C)			Address	405 1 811/	_				-
		Pacto((	**/ + \/)		CAIN Baudkate		125 KBIT/Sec	•				_
Properties		raste(C	ui+v)	<b>-</b> a	Auto Generate	PDO COB-ID	Disable	•				_
Name	$\odot$	Up			Auto Start		Disable	•				
Module ID	$\odot$	Down										
Description	₽	Export	Мар	ptor							_	
Device versio	0	Export	EDS file		Logs							<b>•</b> ậ
Module Num		Export	document		*	DATE	TIME	SOUR	CE	MESSAGE		
Interface				<u> </u>	🔵 Info	2023-10-25	5:31:13 pn	LC-11	01 Modbus-TC	Offline!		
Device IP		1	92.168. 1 .100	_	🔵 Info	2023-10-25	5:31:31 pn	NewP	roject	Commboard LC-2101 Mod	lbus has been created!	
COM		(	COM1	•	🔵 Info	2023-10-25	5:33:08 pn	LC-21	01 Modbus(CC	Delete		
Retresh Perio	d	2	00		🔵 Info	2023-10-25	5:33:09 pn	LC-21	01 Modbus(CC	Offline!		
confirmCoun	t	0	)		🔵 Info	2023-10-25	5:35:12 pn	NewP	roject			
					•							

#### CANopen(LC-3101) configuration parameter interface:

#### LD-1016 parameter interface

KYIOLConfig							_	×
File Tool Optio	on Help							
🔍 New Project 📴		C Search Device	Device Update 🚺	0 🗄 👪 🏛 🌄	<b>⊡</b>			
Project	- ġ	Module Informatio	on Process Data Config P	arams Address Map Ir	nstallation Information			Ŧ
▲ 🗥 NewProject		Module Config Pa	rameters					
4 🔍 I C-1101 Mod	bus-TCP(COM1)	Name	Param Value					
		Input Filtering Tin	me(ms) 10					
1.LD-1018 (1	6D1 24V0C/SITIK	Input Holding Tin	ne(ms) Disable	•				
Properties	<b>~</b> 1							
Name	LD-1016 (16DI 24Vdc)Sin							
Module ID	0x8000121F							
Description	16 Digital Input ,DC 24V							
Submodule Number	0							
		Loas						<b>-</b> ņ
		* [	DATE TIME	SOURCE	MESSAGE			
		Info 2	2023-10-25 5:36:36 pr	LC-3101 CANopen(C	Offline!			
		Info 2	2023-10-25 5:36:53 pr	NewProject	Commboard LC-1101 Modbu	s-TCP has been created!		
		🔵 Info 💦 2	2023-10-25 5:37:58 pr	LC-1101 Modbus-TC	Module Manager			-
								•

### LD-2016 configuration parameter interface

KYIOLConfig									-	×
File Tool Optio	on Help									
🔍 New Project	🕇 Save All(Ctrl+S) 🔂 🔯	🔾 Search Dev	ice 🚺 Device L	Jpdate 🚺	0 🔡 🛍		÷	_		
Project	<b>→</b> ậ	Module Inform	ation Process Da	ata Config Pa	arams Address M	ap Installation In	formation			Ŧ
▲ 🗥 NewProject		Module Config	Parameters							
4 😪 LC-1101 Mod	bus-TCP(COM1)	Name		Param Valu	Je					
11 D-1016 (1	6DI 24V/dc)Sink	Fault Action fo	or Output(CH 0)	Hold Last C	utput Value 🔻					
12:1D-2016 (1	6DO 24Vdc)Source TTL	Fault Action fo	or Output(CH 1)	Hold Last C	utput Value 🔻					
1_]2.20-2010(1		Fault Action fo	or Output(CH 2)	Hold Last C	utput Value 🔻					
		Fault Action fo	or Output(CH 3)	Hold Last C	utput Value 🔻					
		Fault Action fo	or Output(CH 4)	Hold Last C	utput Value 🔻					
		Fault Action fo	or Output(CH 5)	Hold Last C	utput Value 🔻					- 1
		Fault Action fo	or Output(CH 6)	Hold Last C	utput Value 🔻					
		Fault Action fo	or Output(CH 7)	Hold Last C	utput Value 🔻					
Properties		Fault Action fo		Hold Last C						_
Name	LD-2016 (16DO 24Vdc)Sc	Fault Action to		Hold Last C						
Module ID	0x8000222F	Fault Action to	or Output(CH 9)	Hold Last C	output value *					
Description	16 Digital Output ,DC 2	Fault Action fo	or Output(CH 10)	Hold Last C	output Value 🔻					_
Submodule Number	0	Fault Action fo	or Output(CH 11)	Hold Last C	output Value 🔻					_
		Fault Action fo	or Output(CH 12)	Hold Last C	output Value 🔻					
		Logs								<b>–</b> a
		*	DATE	TIME	SOURCE	MESSAGE				
		Info	2023-10-25	5:36:53 pn	NewProject	Commboa	rd LC-1101	Modbus-TCP has been created!		
		🔵 Info	2023-10-25	5:37:58 pn	LC-1101 Modbu	s-TC Module M	anager			
		🔵 Info	2023-10-25	5:39:42 pn	LC-1101 Modbu	is-TC Module M	anager			
										 •

#### LA-1008 configuration parameter interface

KYIOLConfig						-	×
File Tool Optio	on Help						
🔁 穴 New Project	🐴 Save All(Ctrl+S) 🗮 🎼	Search Device	Device Update	10 🔚 🖬 🗖			
Project	<b>~</b> ↓	Module Information P	rocess Data Config	Params Address Map Ir	nstallation Information		Ŧ
A 🐴 NewProject		Module Config Parame	ters				
🖌 🔍 LC-1101 Mod	bus-TCP(COM1)	Name	Param Value				
1:LD-1016 (1	6DI 24Vdc)Sink	16Bit Data Format	A_B ▼				
2:LD-2016 (1	6DO 24Vdc)Source TTL	Channel Enable(CH 0)	Enable 🔻				
3131A-1008 (8	AL 0~20mA 4~20mA)	Channel Enable(CH 1)	Enable 🔻				
		Channel Enable(CH 2)	Enable 🔹				
		Channel Enable(CH 3)	Enable 🔻				
		Channel Enable(CH 4)	Enable 🔻				
		Channel Enable(CH 5)	Enable 🔻				
		Channel Enable(CH 6)	Enable 🔻				_
Properties	- ņ	Channel Enable(CH 7)	Enable 🔻				_
Name	LA-1008 (8AI 0~20mA,4~	Current Type(CH 0)	4~20mA ▼				
Module ID	0x80003238	Current Type(CH 1)	4~20mA ▼				
Description	8 Analog Input ,(0~20m	Current Type(CH 2)	4~20mA ▼				- 11
Submodule Number	0	Current Type(CH 3)	4~20mA ▼				
		Logs			1		 ₹ Ą
		* DATE	TIME	SOURCE	MESSAGE		
		linfo 2023	-10-25 5:37:58 p	n LC-1101 Modbus-IC	Module Manager		
		linfo 2023	-10-25 5:59:42 p	n LC-1101 Modbus-TC	Module Manager		
		4					

#### LA-2004 configuration parameter interface

KYIOLConfig							-	$\times$
File Tool Option	n Help							
🛛 😋 New Project 📄 🛛 😁	Save All(Ctrl+S)	Q Search Device	Uevice Upda	ate 🚺	0 🗄 🛍 🏳			
Project	<b>-</b> 1	Module Information	n Process Data	Config Pa	rams Address Map In	stallation Information		Ŧ
▲		Module Config Para	ameters					
4 😪 LC-1101 Modb	ous-TCP(COM1)	Name	Param Value					
1:LD-1016 (16	iDI 24Vdc)Sink	16Bit Data Format	A_B	•				
2:LD-2016 (16	DO 24Vdc)Source TTL	Range Mode	Standard	•				
3:LA-1008 (84	al 0~20mA 4~20mA)	Current Type(CH 0	) 4~20mA	•				
1 4:1 A-2004 (44	$(0.0 \times 20 \text{ mA} 4 \times 20 \text{ mA})$	Current Type(CH 1	) 4~20mA	•				
- JH.LA 2004 (47	to o zoning zoning	Current Type(CH 2	) 4~20mA	•				
		Current Type(CH 3	) 4~20mA	•				
Properties	— џ							
Name	LA-2004 (4AO 0~20mA,4							
Module ID	0x80004234							
Description	4 Analog Output ,0~20							
Submodule Number	0							
								~ 0
		*		ME	SOURCE	MESSAGE		- 4
			)23-10-25 5:	39:42 pn	LC-1101 Modbus-TC	Module Manager		
		Info 20	)23-10-25 5:	41:09 pn	LC-1101 Modbus-TC	Module Manager		
		Info 20	)23-10-25 5:	42:48 pn	LC-1101 Modbus-TC	Module Manager		
		•						

#### LD-0008 configuration parameter interface

KYIOLConfig									-	×
File Tool Optio	on Help									
😋 New Project 📄 🕻	🂾 Save All(Ctrl+S) 📑 🔯	🔾 Search Devi	ce 🚺 Device	Update 🚺	0 🛛 👪 🗎 🏛					
Project	<b>- </b>	Module Informa	tion Process D	ata Config Pa	arams Address M	∕lap In:	stallation Information			Ŧ
▲ 🕋 NewProject		Module Config	Parameters							
⊿ 😪 LC-1101 Mod	bus-TCP(COM1)	Name		Param Value	•					
1:LD-1016 (1	16DI 24Vdc)Sink	Input Filtering	Time(ms)	10						
21D-2016 (1	16DO 24Vdc)Source TTL	Input Holding	Time(ms)	Disable	•					
31 A-1008 (8	$\frac{3}{2} \left( \frac{1}{2} - \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} - \frac{1}{2} \right)$	Fault Action for	r Output(CH 0)	Hold Last Ou	tput Value 🔻					
1000 (C		Fault Action for	r Output(CH 1)	Hold Last Ou	tput Value 🔻					
1. LA-2004 (4		Fault Action fo	r Output(CH 2)	Hold Last Ou	tput Value 🔻					
1 3.LD-0008 (d	5D1&6D0 24vac)	Fault Action fo	r Output(CH 3)	Hold Last Ou	tput Value 🔻					
		Fault Action fo	r Output(CH 4)	Hold Last Ou	tput Value 🔻					
		Fault Action for	r Output(CH 5)	Hold Last Ou	tput Value 🔻					
Properties	⊸ џ	Fault Action for	r Output(CH 6)	Hold Last Ou	tput Value 🔻					
Name	LD-0008 (8DI&8DO 24Vd	Fault Action fo	r Output(CH 7)	Hold Last Ou	tput Value 🔻					
Module ID	0x8000623F	Fault Value for	Output(CH 0)	0						
Description	8 Digital Input ,DC 24V,	Fault Value for		0						
Submodule Number	0			0						_
		Fault Value for	Output(CH 2)	0						
		Logs								<b>•</b> ‡
		*	DATE	TIME	SOURCE		MESSAGE			-
		🔵 Info	2023-10-25	5:41:09 pn	LC-1101 Modb	us-TC	Module Manager			
		Info	2023-10-25	5:42:48 pn	LC-1101 Modb	us-TC	Module Manager	 		
		🕒 Info	2023-10-25	5:44:09 pn	LC-1101 Modb	us-TC	Module Manager			

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.

KYIOLConfig								-	(	כ	×
File Tool Op	otion	Help									
🖹 究 New Project 📄	💾 Sa	ave All(Ctrl+S) 🔂 🎼	📿 Search Devic	e 🕖 Device Up	date 🚺	🚺 🕌 💽 Online	存 Upload Params  Download Parar	ns 💼 🌄 🕞 💽			
Project		<b>~</b> ₽	Module Informa	tion Process Data	Config Pa	rams Address Map Ir	stallation Information				Ŧ
▲ 🗥 NewProject			Adaptor Config	Parameters							
▲ 😪 LC-1101 M		FERICON 40	Name		Param Va	lue					
1:LD-1016		odule Manager	Source of Confi	iguration Data	Configura	tion Software 🔻					
21D-2016	<u> </u>	Online	Fault Action for	Input	Hold Last	Input Value 🔹					
3:LA-1008	<b>ດ</b> ບ	Ipload Params	Fault Action for	Output	Hold Last	Output Value 🔻					
41 A-2004	ם 🕑	Download Params	Port Mirroring		Disable	-					
5:1 D-0008	œ د	Delete	Sniffer Port		LAN1	•					
	🗖 В	lename	Linkdown Dete	ction	Enable	•					
	<b>⊡</b> ⊂	Copy(Ctrl+C)	Modbus Discor	nected Detection	Enable	•					
	P	'aste(Ctrl+V)	Byte Swap (Dig	ital to Analog)	Enable	•					
Properties	Ο υ	lp	FieldBus Config	Parameters							
Name	О р	Down	Name	Param Value	,						
Module ID	F F	vport Map	MAC Address	00:00:00	: 00 : 00 :	00					
Device version		хрогт мар	IP Address	0.0.0	. 0						_
Module Number	₩ E	xport document	Net Mask	0.0.0	. 0						
Interface	s	ierialPort 🔹	Not Cotoway	0 0 0	0						-
Device IP	19	92.168. 1 .100	Logs								<b>→</b> ậ
СОМ	C	сом1 👻	*	DATE	TIME	SOURCE	MESSAGE				-
Refresh Period	20	00	Info	2023-10-25	5:41:09 pn	LC-1101 Modbus-TC	Module Manager				
_profile			Info	2023-10-25	5:42:48 pn	LC-1101 Modbus-TC	Module Manager				
confirmCount	5		🕒 Info	2023-10-25	5:44:09 pn	LC-1101 Modbus-TC	Module Manager				

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

KYIOLConfig								-		$\times$
File Tool C	Option Help									
🐟 New Project 🧧	Save All(Ctrl+S)	🔯 📿 Search Device  Device Upo	date 🚺 🕕 🛿 🔡 🛄 Onl	ne 🕞 Upload Params	🕑 Download Pa	rams	🏛 🔽 🖻 💽 😒			
Project	••••••••••••••••••	•      Module Information Process Data	Config Params Address Map	Installation Information		_			_	
🔺 🕋 NewProject		Adaptor Config Parameters								
4 😪 LC-1101 N	Modbus-TCP(COM1)	Name	Param Value							_
1:LD-101	16 (16DL 24Vdc)Sink	Source of Configuration Data	Configuration Software 🔻						×	
3:LA-100	$\phi \leftarrow \rightarrow \checkmark \uparrow$	+ This PC > Windows (C:)			$\sim$	C	Search Windows (C:)		Q	
4:LA-200	Organise • New fold	ler					1	• =	()	-
5:LD-000	Downloads 🖈	Name	Date modified	Туре	Size					-
	📑 Documents 🖈	Intel	16/10/2023 8:51 a	m File folder						
	🔀 Pictures 🛛 🖈	Intewell_Developer_V2.1.3_beta	4/10/2023 4:16 pt	n File folder						
Properties		MaVIEW	4/10/2023 4:45 pi	n File folder						
Name	> iCloud Drive	📁 Program Files	25/10/2023 2:27 p	File folder						
Module ID Description	🗸 💻 This PC	📁 Program Files (x86)	17/10/2023 4:40	m File folder						
Device version	> 🐸 Windows (C:)	Users	26/7/2023 4:00 pr	n File folder						
Module Number	> 🚔 CD Drive (D:)	Windows	16/10/2023 9:34 p	m File folder						
Device IP	> 🚈 Network									<b>-</b> q
СОМ										-
Refresh Period	_									
_profile confirmCount	File name: New	/Project.apj							~	
	save as type: apj(	.apj)								•
	▲ Hide Folders						Save	Cance		

## 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.

 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.

KYIOLConfig	KYIOLConfig	KYIOLConfig
File Tool Option Help	File Tool Option Help	File Tool Option Help
New Project 📄 🛗 Save All(Ctrl+S)	🐟 New Project 🗁 🖺 Save All(Ctrl+S) 📰 🏠	😭 Project 🕠 🔩 New Project 🔂 🥵
Project 🝷 🖡	Project 👻 🗸	🕛 Exit 📮 Open Project
		🖺 Save All(Ctrl+S)
😚 Project 🕨 🔍 New Project		Save As
🗁 Open Project		Paste(Ctrl+V)
🖺 Save All(Ctrl+S)		
Save As		
Paste(Ctrl+V)		
	I II	
New Project X		
Project Name NewProject		
OK Cancel		

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.

KYIOLConfig	
File Tool Opt	ion Help
🔩 New Project 📄	💾 Save All(Ctrl+S) 🔂 🔯
Project	⊸ џ
🗥 New Project	
	New Adapter
	💼 Delete Project
	\Lambda Upload Modules
	🔽 Rename
	💾 Save The Project
	Copy(Ctrl+C)
	Paste(Ctrl+V)
	O Up
	🕑 Down
	😂 Export document
Properties	<b>▼</b> ‡
Upload Interface	SerialPort 🔻
СОМ	COM9 🔻

KYIOLConfig							-		×
File Tool Op	tion Help								
💽 😋 New Project	💾 Save All(Ctrl+S) 📰 🏫	C Searc	h Device  Device l	Update 🚺	0				
Project	<b>→</b> ậ	Module In	nformation Process D	ata Config Pa	rams Address Map I	Installation Information			Ŧ
🔺 🕋 NewProject		Name	Project Value	_	Window Snip	Online Value			
4 😪 LC-1101 Ma	odbus-TCP Adaptor(COM7)								
1:LD-1308	(8DI 24Vdc Sink)								
2:LD-2008	(8DO 24Vdc)								
3:LA-3008	(8AIV dc Input) 16bit								
4:LA-4004	(4AO -10~10V Output)								
L									
Properties	······ • •								
Upload Interface	SerialPort 🔹								
СОМ	COM7 (USB-Enhanc 🔻	Logs 200							<b>•</b> 1
Device IP	192.168. 1 .100	*	DATE	TIME	SOURCE	MESSAGE			-
		Info	2023-10-26	5:00:45 PN	LA-3008 (8AIV dc In	Start uploading			
		Info	2023-10-26	5:00:45 PN	LA-3008 (8AIV dc In	Upload completed			
		🔵 Info	2023-10-26	5:00:45 PN	LA-4004(4AO -10~1	Start uploading			
		🔵 Info	2023-10-26	5:00:45 PN	LA-4004(4AO -10~1	Upload completed			- 1
		Info	2023-10-26	5:00:45 PN	LC-1101 Modbus-TC	Upload completed			
		🔵 Info	2023-10-26	5:00:45 PN	NewProject	Commboard LC-1101 Modbus-TCP Adapto	r has bee	n create	d
									_ ₹
									_

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

KYIOLConfig							-		×		
File Tool Op	tion Help										
🔩 New Project 🧁	🖁 Save All(Ctrl+S) 📰 😥	C Search Device	Device	Update 🚺	🚺 🔛 Offline 🚺						
Project		Module Informati	on Process	Data Config Pa	rams Address Map Ir	nstallation Inf	mation		Ŧ		
		Name	Proje	ect Value			Online Value				
- NewProject	4404.44 // TOD 4.4	Name	LC-11	01 Modbus-TC	P Adaptor		LC-1101 Modbus-TCP Adaptor				
▲ 😋 [Online]LC-	-1101 Modbus-TCP Adaptor	Module ID	0x800	08031			0x80008031				
1:LD-1308	(8DI 24Vdc Sink)		0,000	00001			V/ 22				
2:LD-2008	(8DO 24Vdc)	Hardware Version	n				V1.00				
3:LA-3008	(8AIV dc Input) 16bit	Software Version					V1.24				
41 4-4004	(440 - 10~ 10V Output)	Software Date					2023/05/29				
	nio io ioroupuo	Hardware Num					LDBLD201905V100-NLC1101				
		Vendor Name	kylan	d							
		Description	Mode	ous-TCP Server	Adaptor						
1		Current Consum	ntion -2500	lmΔ							
Properties	····· • •										
Name	LC-1101 Modbus-TCP Ad										
Module ID	0x80008031										
Description	Modbus-TCP Server Ad										
Device version	V1.00	Logs >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>							<b>т</b> ф		
Module Number	4	•	DATE	TIME	SOURCE	MESSAGE					
Interface	SerialPort 🔻	Info	2023-10-27	2:00:26 PN	LA-4004(4AO -10~1	Start uploadir	ng				
Device IP	192.168. 1 .100	Info	2023-10-27	2:00:26 PN	LA-4004(4AO -10~1)	Upload comp	leted				
COM	COM7 (USB-Enhanc 🔹	Info	2023-10-27	2:00:26 PN	LC-1101 Modbus-TC	Upload comp	leted				
Refresh Period	200	Info	2023-10-27	2:00:26 PN	NewProject	Commboard	LC-1101 Modbus-TCP Adaptor has been created!				
_profile		Info	2023-10-27	2:01:34 PN	[Online]LC-1101 Mc	Online					
confirmCount	4										
			2025-10-27	2:00:20 PW	LA-4004(4AO -10~1	Start uproadin	II		P		
СОМ	COM7 (USB-Enhanc 🔹	Info	2023-10-27	2:00:26 PN	LA-4004(4AO -10~1)	Upload comp	leted				
Refresh Period	200	Info	2023-10-27	2:00:26 PN	LC-1101 Modbus-TC	Upload comp	leted				

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.

KYIOI Config								П	×
Eile Teel Orti									~
File Iool Optio	on Help	0							
🕅 🖓 New Project 🔤	🚡 Save All(Ctrl+S) 💽 🏹	C Search Dev	vice 🛃 Device Up	odate 🕛					
Project	<b>▼</b> ₽	Module Inform	nation Process Dat	ta Config Pa	rams Address Map	Installation Inform	mation		Ŧ
A A NewProject		IO Input:							
🔺 😪 [Online]LC-1	101 Modbus-TCP Adaptor	NAME		TYPE	ONLINI 0x01	VALUE			
1:LD-1308(8	DI 24Vdc Sink)	Uigital	Input Data(CH 0-7	) Unsig	gned8 0x01			_	_
2:LD-2008/8	DO 24Vdc)	Dig	ital Input Data CH (	0) Bit					
21 4-2008 (8	All/ dc Innut) 16bit	Dig	ital Input Data(CH	1) Bit	0				
P 3.LA-3008 (a	Arv ac inputy robit	Dig	ital Input Data(CH )	2) Bit	0				
<b>۴</b> 4:LA-4004(4)	AO -10~10V Output)	Dig	ital Input Data(CH	3) Bit	0				
		Dig	ital Input Data(CH	4) Bit	0				
		Dig	ital Input Data(CH :	5) Bit	0				
		Dig	ital Input Data(CH (	6) Bit	0				
Properties	• û	Dig	ital Input Data(CH	7) Bit	0				
Name	LD-1308(8DI 24Vdc Sink)								
Module ID	0x80001218								
Description	8 Digital Input ,DC 24V,								
Submodule Number	0	Logs							<b>–</b> ą
		*	DATE	TIME	SOURCE	MESSAGE			-
		Info	2023-10-27	2:00:26 PN	LA-4004(4AO -10~	1 Start uploading	g		
		🔵 Info	2023-10-27	2:00:26 PN	LA-4004(4AO -10~	1 Upload comple	eted		
		🔵 Info	2023-10-27	2:00:26 PN	LC-1101 Modbus-1	C Upload compl	eted		
		lnfo	2023-10-27	2:00:26 PN	NewProject	Commboard L	C-1101 Modbus-TCP Adaptor has been created!		
		🕘 Info	2023-10-27	2:01:34 PN	[Online]LC-1101 N	lc Online			
		4					1		• <sup>•</sup>

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.

-											
KYIOLConfig										- 0	×
File Tool Option	on Help										
🐟 New Project 🗁	光 Save All(Ctrl+S) 🔜 🔯	🔾 Search Dev	ice  Device U	Ipdate 🚺	0 🖻 🗈 👘						
Project	- <b>t</b>	Module Inform	ation Process Da	ta Config Pa	rams Address Map	Installation Inform	ation				Ŧ
▲ 🐴 NewProject		IO Input:									
🖌 😪 [Online]I.C-1	101 Modbus-TCP Adaptor	NAME		TYPE	ONLINE	VALUE					
	Di 24/de Cielo	Reserve	ed	Unsi	gned8 0						
1:LD-1308(8	DI 24Vac Sink)	IO Output:									
P2:LD-2008(8	DO 24Vdc)	NAME		TYPE	ONLINE	VALUE	PROJECT VALUE				
3:LA-3008 (8	BAIV dc Input) 16bit	Analog	Output Data(CH	0) Integ	er16 0x4E20		0x4E20				
4:LA-4004(4,	AO -10~10V Output)	Analog	Output Data(CH	1) Intec	er16 0x07D0		0x07D0				
		Analog	Output Data(CH	2) Integ	er16 0		0				
		Analoo	Output Data(CH	3) Inter	er16 0		0				
		Androg	output buta(cri	5) integ							
4	•										
Properties	<b>- ņ</b>										
Name	LA-4004(4AO -10~10V O										
Module ID	0x80004154										
Description	4 Analog Output ,0~5V										
Submodule Number	0	Logs ::::::::::::::::::::::::::::::::::::									т
		*	DATE	TIME	SOURCE	MESSAGE					
		Info	2023-10-27	2:00:26 PN	LA-4004(4AO -10~1	Upload comple	ted				
		Info	2023-10-27	2:00:26 PN	LC-1101 Modbus-TO	Upload comple	ted				
		Info	2023-10-27	2:00:26 PN	NewProject	Commboard LC	-1101 Modbus-TCP A	Adaptor has	been create	.d!	
		Info	2023-10-27	2:01:34 PN	[Online]LC-1101 M	c Online					
		Info	2023-10-27	2:17:20 PN	LA-4004(4AO -10~1	Process data do	ownload OK!				
		4									▶

KYIOLConfig							-		×
File Tool Optic	on Help								
😒 New Project 📄	🖥 Save All(Ctrl+S) 🔜 🔯	🔍 Search Device 💵	Device Update 🚺	0 🕞 🕞					
Project	<b>4</b>	Module Information Pro	ocess Data Config Pa	rams Address Map Ir	nstallation Informati	on			Ŧ
▲ 🗥 NewProject		IO Input:							
▲ 🌺 【Online 】LC-1	101 Modbus-TCP Adaptor	NAME	TYPE	ONLINE V	ALUE				
11/0 1209/9	DI 241/de Sink)	Analog Input Da	ta(CH 0) Integ	er16 0x4E08					
	Di 24Vuc Suikj	Analog Input Da	ta(CH 1) Integ	er16 0x07CC					
11 2:LD-2008(8)	DO 24Vdc)	Analog Input Da	ta(CH 2) Integ	er16 0x0000					
3:LA-3008 (8	AIV dc Input) 16bit	Analog Input Da	ta(CH 3) Integ	er16 0x0000					
4:LA-4004(4A	40 -10~10V Output)	Analog Input Da	ta(CH 4) Integ	er16 0x0000					
		Analog Input Da	ta(CH 5) Integ	er16 0x0000					
		Analog Input Da	ta(CH 6) Intec	er16 0x0000					
		Analog Input Da	ta(CH 7) Intec	er16 0x0000					
			• • •					_	
Properties	····· 🕈 🕇								
Name	LA-3008 (8AIV dc Input)								
Module ID	0x80003168								
Description	8 Analog Input ,0~5Vdc								
Submodule Number	0	Logs			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				- 🕶 🏚
		* DATE	TIME	SOURCE	MESSAGE				
		Info 2023-1	0-27 2:00:26 PN	LA-4004(4AO -10~1					
		Info 2023-1	0-27 2:00:26 PN	LC-1101 Modbus-TC	Upload completed	i			
		Info 2023-1	0-27 2:00:26 PN	NewProject	Commboard LC-1	101 Modbus-TCP Adaptor h	as been created!		
		Info 2023-1	0-27 2:01:34 PN	[Online]LC-1101 Mc	Online				
		Info 2023-1	0-27 2:17:20 PN	LA-4004(4AO -10~1)	Process data down	nload OK!			_
		4							⇒. T

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

KYIOLConfig			-		×
File Tool Opti	ion Help				
🔍 穴 New Project	🖁 Save All(Ctrl+S)	🖄 🔍 Search Device 🔃 Device Update 💽 🌔 🔡 💼 🤛 💽 💽			
Project		Submodule Manager	- 0	×	Ŧ
A 🗥 NewProject		Module Available Module Selected			
🔺 😪 LC-1101 Mod	dbus-TCP(COM1)	In the second			
1:LD-1016 (	16DI 24Vdc)Sink				
2:LD-3016 (	16DI 24Vdc)Source				
10,					
		>>			
Properties	LD 1016 (16DL 24)(dc)				
Modulo ID	0v8000121E				
Description	16 Digital Input .DC 2				
Submodule Number	0	Up Down Rename			
			КСа	ncel	
		See ano 2023-10-25 0:10:17 pn LC-1101 Modbus-1C shoaule Manager			<b>•</b>
					•

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.

Search		family Un	land Und	-t. C	-					- 0
ice	gabit Network Connection #3 192.168.1.15	Search Up	ioad Opda	te Cano					Message	
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Module ID	0x80008031									
Description	Modbus-TCP Server Adapto	or .								
Device version	V1.00		Logi							······ •
Module Number	4		*		DATE	TIME	SOURCE	MESSAGE		
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### 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.

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Module ID	1	0x80008031		File	name:		~	oml (*.oml)	~	
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#### 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.

Device Update	- 🗆 X
Config To Update	Device Info
Firmware:	Slot Num Name Module ID Hardware Num Hardware Version Software Version Software Date IAP Version
Interface SerialPort 🗸	2
сом сом1	
Device IP 192.168.1.100	
Automatic Skip(to APP)	
Read Info Export Info Start Stop Run APP Advanced	
	Logs
State :	

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.

Device Update														-		$\times$
Config To Update						Device Info										
Firmware:						Slot Num Name	e Module ID	Hardware Nur	Hardware Version	Software Version	Software Date	IAP Version	IAP Date	MAC	Update	
Interface	SerialPort				Ţ	μ.										
СОМ	COM1				•											
Device IP	192.168. 1 .100															
Automatic Skip(to APP)																
Read Info Expo	rt Info Star	t S	itop	Run APP	Advanced											
		-	Sele	ct Updated File								×				
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				File	name: LA-1004	I-APP-V2.02-2023.0	4.11.ofd		~	ofd(*.ofd)						
										Open	Cancel					
							_	_	_							

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 ( $\sqrt{}$ ) 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."

m Device Update					· · · · · · · · · · · · · · · · · · ·	-		×
Config To Update					Device Info			
Firmware	C:\LIsers\KEN\Downloads\k	(VIO Eirmware)	LA-1004-APP-V2	02-2023	Slot Num Name Module ID Hardware Num Hardware Version Software Version Software Date IAP Version IAP Date M	IAC Up	odate	
i i i i i i i i i i i i i i i i i i i	C. (D. )	(no minute)	LA 1004 AN 142					
Interface	SerialPort			•				
COM	COM1			•				
Device IP	192.168. 1 .100							
Automatic Skip(to APP)								
Read Info Expo	ort Info Start	Stop	Run APP	Advanced				
LA-1004-APP-V2.02-2023	3.04.11.ofd							
▲ I.Propreties				<b>A</b>				
Hardware Num	LDBLD202210V100-TI	LA1004						
Hardware Version	V1.00							
Software Date	2023/04/11							
Software Version	V2.02							
Module ID	0x80003234							
Name	LA-1004(4AI 0~20ma	Input)						
▲ III.Slot								
All								
0#(Adapter)								
1#(Module)								
2#(Module)	✓							
3#(Module)								
4#(Module)					Logs			
5#(Module)								
6#(Module)					2023-10-25 06:34:07 065 Import file succeeded			
P#(Module)					2023-10-25 06:34:07 079 load:LA-1004-APP-V2.02-2023.04.11.ofd			
9#(Module)					2022 10 25 062407 070 June 4 Elemented			
10#(Module)					2023-10-25 00:34:07 079 Import nie succeeded			
11#(Module)					2023-10-25 06:34:07 086 load:LA-1004-APP-V2.02-2023.04.11.ofd			
12#(Module)								
				-				

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.

🚻 Device Update								
Config To Update								
Firmware:	C:\Users\KEN\Downloads\KYIO Firmware\LA-1004-APP-V2.02-2023 🔻							
Interface	SerialPort 🔹							
СОМ	COM9 •							
Device IP	192.168. 1 .100							
Automatic Skip(to APP)								
Read Info Expo	rt Info Start Stop Run APP Advanced							
LA-1004-APP-V2.02-2023	8.04.11.ofd							
▲ I.Propreties								
Hardware Num	LDBLD202210V100-TLA1004							
Hardware Version	V1.00							
Software Date	2023/04/11							
Software Version	V2.02							
Module ID	0x80003234							
Name	Name LA-1004(4AI 0~20ma Input)							

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.

Device Update										
Config To Update	Config To Update									
Firmware:	Jsers\KEN\Downloads\KYIO Firmware\LA-1004-APP-V2.02-2023 🔻									
Interface	SerialPort 🔹									
СОМ	COM9 👻									
Device IP 192.168. 1.100										
Automatic Skip(to APP) 🛃										
Read Info Expo	rt Info Start Stop Run APP Advanced									
LA-1004-APP-V2.02-2023	.04.11.ofd									
▲ I.Propreties										
Hardware Num	LDBLD202210V100-TLA1004									
Hardware Version	V1.00									
Software Date	2023/04/11									
Software Version	V2.02									
Module ID	0x80003234									
Name	LA-1004(4AI 0~20ma Input)									

#### 3.9 Data export

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



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Project 👻 🖡	Module Information Process Data Conf	fig Params Address Map Installa	tion Information					Ŧ
▲ 🕋 NewProject	NAME TY	PE ONLINE VALUE	PROJECT VALUE					
4 😪 LC-1101 Modbus-TCP(COM1)								
4 📶 1:LD-1016 (16DI 24Vdc)Sink								
1:16DI Counter Submodule								
2:LD-3016 (16DI 24Vdc)Source								
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	Path Config							
	Folder Path:	C:\Users\KEN\OneDrive - K	yland Technology EME	A GmbH\Desktop				
	File Name:	File Name: LC-1101_Modbus-TCP(COM1)_Address_Map_2023-10-25_184041						
				ок	Cancel			

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



#### KYIO-L Config Software Manual

#### KYLAND

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Adapter/Mod 1# LD-1016 (1	ule/Submodule 16DI 24Vdc)Sink	Data Name Digital Input Data(CH 0)	Input Status(1x) 0x00000000(0)	Input Registers(3x	) Coil Status(0x)	Iolding Registe
		Digital Input Data(CH 1) Digital Input Data(CH 2)	0x0000001(1) 0x0000002(2)			
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		Digital Input Data(CH 4)	0x00000004(4)			
		Digital Input Data(CH 6) Digital Input Data(CH 7)	0x0000006(6) 0x0000007(7)			
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		Digital Input Data(CH 10)	0x000000A(10)			
		Digital Input Data(CH 12)	0x0000000C(12)			
		Digital Input Data(CH 13)	0x0000000E(14)			
		Digital Input Data(CH 15)	0x000000F(15)		I	L
1# LD-1016 (16DI 24Vdc)Sin	k_1# 16DI Counter Submodule	Input Counter Value(CH 0)		0x00000000(0)		
		Input Counter Value(CH 2)		0x00000004(4)		
		Input Counter Value(CH 3)		0x00000008(8)		
		Input Counter Value(CH 5) Input Counter Value(CH 6)		0x0000000A(10) 0x0000000C(12)		
		Input Counter Value(CH 7) Input Counter Value(CH 8)		0x000000E(14) 0x00000010(16)		
		Input Counter Value(CH 9)		0x00000012(18)		
		Input Counter Value(CH 11)		0x00000016(22)		
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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.

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File     Tool     Option     Help	File Tool Option Help  New Project  New Proj	Ŧ
	→ Q LC-1101 Modbus-ECP(COM1) CL-3101 CANopen(COM1)	
<ul> <li>Module Manager</li> <li>Online</li> <li>Upload Params</li> <li>Download Params</li> <li>Delete</li> <li>Rename</li> </ul>	Organise · New folder     ■ · ●       > ● Ken - Syland Ter     Name     Date modified     Type     Size       Image: Desktop     #	
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Properties Export Hap Name Export EDS file Nodule ID Description CANopen Slave Adaptor	Device IP         192. 168. 1, 100         Cogs           COM         COM1	i-TCP(COM1)_Docum