Programmable Controller B 2341

User Manual

V1.00

B Series - Programmable Controller



Odot Automation System Co., Ltd.

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Safety Information

Important Information

Before attempting to install, operate, repair, or maintain the device, please read the instructions below carefully and familiarize yourself with the device by reviewing it. The following specific information may appear elsewhere in text or on the device to alert the user to potential hazards or to draw attention to information about clarifying or simplifying a process. If the device is used in a manner not specified by the manufacturer, the protection provided by the device may be voided.

ADANGER

DANGER INDICATES A DANGEROUS SITUATION THAT, IF NOT AVOIDED, COULD RESULT IN SERIOUS BODILY INJURY OR EVEN DEATH.



WARNINGS INDICATE DANGEROUS SITUATIONS THAT, IF NOT AVOIDED, COULD

RESULT IN SERIOUS PERSONAL INJURY OR EVEN DEATH.

ACAUTION

CAUTION INDICATES A DANGEROUS SITUATION THAT, IF NOT AVOIDED, COULD

RESULT IN MINOR OR MODERATE PERSONAL INJURY OR EVEN DEATH.

Note

Note is used to indicate hazards that are not related to personal injury.

Please note

The installation, operation, repair and maintenance of electrical equipment is restricted to qualified personnel. Odot Automation does not assume any consequences arising from the use of this information.

A qualified person is a person who has the skills and knowledge related to the manufacture and operation of electrical equipment and its installation, and who has been trained in safety to detect and avoid the associated hazards.

Personnel qualifications

Only those who are properly trained, familiar with, and understand the contents of this manual and all other relevant product documentation are authorized to use this product.

Qualified personnel must be able to identify possible hazards, usually from mechanical, electrical or electronic equipment, arising from the setting of parameters and the modification of parameter values. Qualified personnel must be familiar with the standards, regulations and regulations designed to prevent industrial accidents and must comply with them when designing and building systems.

Intended Use

The products described in or referred to in this document, together with their software, accessories and options, are expansion modules designed for industrial use and should be used in accordance with the relevant instructions, instructions, examples, and safety instructions in this document and other supporting documents.

The use of this product must comply with all applicable safety laws and regulations, specified requirements and technical parameters.

Given the planned application, you must conduct a risk assessment before using this product. Appropriate safety-related measures must be taken based on the results of the

assessment.

Since this product should be used as an integral part of an overall machine or process, personnel safety must be ensured through the design of the entire system.

This product must be used with the specified cables and accessories. Please use only original parts and original replacement parts.

Any use other than those expressly permitted is prohibited and may result in unintended harm.

Cyber security tips

A. Use controllers and devices only in protected environments to minimize network exposure and ensure that they cannot be accessed from the outside.

B. Use firewalls to protect the control system network and separate it from the rest of the network.

C. If remote access is required, use a VPN (Virtual Private Network) tunnel.

D. Restrict access to development and control systems through physical means,

operating system capabilities, etc.

E. Protect development and control systems with the latest virus detection solutions.

About this manual

Document scope

This guide describes the design parameters and CODESYS programming examples of the B2341 programmable controller, and provides an overview of the B2341 product features, function descriptions, configuration methods, wiring diagrams, and installation details.

Validity Statement

In line with our continuous improvement policy, we will continually revise the content to make it clearer and more accurate.

Odot Automation System Co., Ltd. reserves the right of final interpretation of this manual.

Product Information

There is a risk of electric shock, explosion, or arc flash

• Disconnect all devices from power, including connected devices, before removing any covers, or installing or removing any accessories, hardware, cables, or wires, except in specific circumstances specified in the appropriate hardware guidelines for this device.

• As instructed, it is important to use a voltage sensing device with an appropriate rating to detect a power outage at the appropriate place and time.

• Replace and tighten all covers, accessories, hardware, cables, and wires, and confirm that the ground connection is correct before powering on the device.

• When operating this equipment and related products, the specified voltage must be used.

Failure to follow these instructions will result in death, personal injury, or serious injury.

There may be a risk of explosion

• Do not connect or disconnect the device unless it has been unplugged or the location

is determined to be non-hazardous.

• The USB port (if equipped) should only be used if it is determined that the work area is a non-hazardous area.

Failure to follow the instructions may result in the loss of the protection provided by the device, which may result in serious consequences such as death, personal injury, or damage to the device.



Loss of control

• The designer of any control scheme must take into account the possibility of a failure of the control path and provide a way for certain critical control functions to return to a safe state in the event of a path failure and after a path failure. These critical control functions include emergency stops, overrun stops, power failure restarts, and similar safety measures.

• For critical control functions, separate or redundant control paths must be provided.

• The system control path may include a communication link. Implicit unforeseen transmission delays or link failures must be taken into account.

• Follow all accident prevention regulations and local safety guidelines.

• In order to guarantee correct operation, the equipment must be thoroughly tested separately for each execution before it is put into service.

Failure to follow the instructions may result in the loss of the protection provided by the device, which may result in serious consequences such as death, personal injury, or damage to the device.

WARNING

UNEXPECTED DEVICE OPERATION

• Use only software approved by Sichuan Zero Automation that can be

USED WITH THIS EQUIPMENT.

• UPDATE THE APPLICATION EACH TIME YOU MAKE CHANGES TO THE PHYSICAL

HARDWARE CONFIGURATION.

FAILURE TO FOLLOW THE INSTRUCTIONS MAY RESULT IN THE LOSS OF THE

PROTECTION PROVIDED BY THE DEVICE, WHICH MAY RESULT IN SERIOUS CONSEQUENCES SUCH AS DEATH, PERSONAL INJURY, OR DAMAGE TO THE DEVICE.

WARNING

UNEXPECTED DEVICE OPERATION

THE RISK ASSESSMENT SHOULD INCLUDE THE POSSIBILITY OF COMMUNICATION FAILURES BETWEEN THE LOGIC CONTROLLER AND ANY I/O EXPANSION MODULES. IF THE IO MODULE OUTPUT SIGNAL "KEEP CURRENT" DOES NOT MATCH YOUR APPLICATION REQUIREMENTS WHEN THE I/O EXPANSION BUS IS FAULTY, OTHER SCENARIOS SHOULD BE USED TO ENSURE THAT THE APPLICATION CAN COPE WITH THE BUS ERROR EVENT.

The status of the I/O expansion bus is monitored using a dedicated system word and appropriate measures are taken as determined by the risk assessment.

FAILURE TO FOLLOW THE INSTRUCTIONS MAY RESULT IN THE LOSS OF THE PROTECTION PROVIDED BY THE DEVICE, WHICH MAY RESULT IN SERIOUS CONSEQUENCES SUCH AS DEATH, PERSONAL INJURY, OR DAMAGE TO THE DEVICE.

Version information

Date	Version	Modifications	Author
2024-11-20	V1.0	Release version	YPP

The following changes have been made to the document:

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Disclaimer

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Software downloads

If you need to download the device description file or IO Config software, please log in to the official website of Odot Automation: www.odot.cn, select the corresponding product page on the support and service page, and click Download. To download Codesys software, please log in to the www.codesys.cn page to download it.

Disclaimer of Warranties

Product Usage

Note		
• When installing, operating, and maintaining the equipment, do not exceed any		
of the ratings specified in the electrical characteristics;		
• When installing, operating, and maintaining the equipment, do not exceed any		
of the ratings specified in the environmental characteristics. Do not use the product		

in the following places: places with dust, oil fumes, conductive dust, corrosive gases, and flammable gases; Do not expose to high temperatures, condensation, wind and rain; Vibration and shock will also cause damage to the product; Failure to follow the instructions may render the protection provided by the device null and may result in minor bodily injury or damage to the device.

Disclaimer of Warranties

The Company shall not be liable for any damage or malfunction of the equipment caused by:

1. Transportation damage: equipment damage caused by improper transportation or packaging;

2. Natural factors: damage caused by lightning strikes, voltage fluctuations, water ingress or natural disasters (such as fires, floods, etc.);

3. Improper use: damage caused by overload, non-standard operation, unauthorized modification or use of unqualified accessories;

4. Unauthorized maintenance: equipment failure caused by unauthorized maintenance or alteration;

5. Other non-product reasons: damage caused by other reasons that have nothing to do with the equipment itself.

Repair services

1. For the damage caused by the above reasons, the company will charge the repair fee according to the actual situation.

2. Outside the warranty period, the company provides paid maintenance services, and the cost is charged according to the maintenance situation.

Assumption of Risk

The company shall not be liable for casualties, property damage or other related losses caused by the use of the equipment. All risks are borne by the user.

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1 Product Overview

1.1 Brief Introduction

The B2341 programming environment is Codesys, a programmable controller that follows the IEC61131-3 international standard, and supports five programming languages: ladder diagram (LD), instruction list (IL), structured text (ST), function block diagram (CFC), and sequential function diagram (SFC). The maximum number of expansion modules is 4, the user program storage supports 1 Mbytes, the powerdown protection zone is 4 Kbytes, and Modbus TCP client and server are supported. It has rich instructions, reliable functions, good adaptability, compact structure, easy to expand, cost-effective, strong versatility, programming, monitoring, debugging, and on-site operation are very convenient, and the Ethernet interface on the CPU supports Modbus TCP client function, and supports access to the data of the third-party Modbus TCP server; Supports Modbus TCP server function and supports third-party Modbus TCP clients to access data.

Supported I/O expansion modules include:

A. Digital input module

- B. Digital output module
- C. Analog input module
- D. Analog output module
- E. Special function module



1.2 Module Features

1. Optional IO modules, a single module supports up to 16 channels.

2. It can be expanded up to 4 modules and supports 64 channels.

3. With LCD display, it can view communication parameters, IO channel status,

module version and other information.

4. Plastic shell, small size, easy to install.

1.3 Modular Structure

ODOT B series is integrated I/O module with modular combinations inside. The power supply and COMM board are at the bottom, and the IO module communicates with the COMM board through the backplane (the green module as below). It could support expansion max of 4 IO slots (only 2 IO slots are installed in below diagram).





2.B64-2341-11-25-26-3A

B64-2341-11-25-26-3A Slot1 Slot2 Slot3 Slot4



1.4 Module Selection Table

No.	Nam e	Module	Module sort	Module description	Status
1	B32	BOXIO- 32	32 channel sets	32 channel shell, small LCD display, 32 backplanes	Published
2	B64	BOXIO- 64	64 channel sets	64 channel shell, big LCD display, 64 backplanes	Published
3	2341	B2341	COMM board	PLC function, Support Modbus TCP Client and Server, use the Codesys software programming	Published
4	-11	BT-124F	DI	16 channel / digital input / 24VDC /dual direction, the input high & low level is valid	Published
5	-25	BT-221F	DO	16 channel / digital output / 24VDC / sink, the output low level is valid	Published
6	-26	BT-222F	DO	16 channel / digital output / 24VDC / source, the output high level is valid	Published
7	-3A	BT-3158	AI	8 channels voltage input, 0~5VDC/0~10VDC/±5VDC/±10VDC, 12-bit	Published
8	-3G	BT-3168	AI	8 channels voltage input, 0~5VDC/0~10VDC/±5VDC/±10VDC, 16 bit	Published
9	-3B	BT-3238	AI	8 channels / current input / 0&4-20mA, 16 bit single-ended,	Published
10	-3C	BT-3244	AI	4 channels/current input /0&4-20mA, ±20mA, 16-bit, single-ended bipolar,	Published
11	-3D	BT-3714	AI	4 channels thermal resistance input, RTD- PT100	Published
12	-3E	BT-3724	AI	4 channels thermal resistance input, RTD- PT1000	Published
13	-3F	BT-3804	AI	4 channels Thermocouple input, TC-J / K/ E / T / S / R / B / N type, fixed filtering parameters	Published
14	-4P	BT-4234	AO	4 channels current output, 0&4-20mA, 16- bit, single-ended,	Published
15	-4Q	BT-4154	AO	4 channels voltage output, 0~5VDC/0~10VDC/±5VDC/±10VDC, 16-bi	Published
16	-5A	BT-5102	Special module	2 channels orthogonal/pulse encoder input, 5V single-ended, 1.5MHz	Published
17	-5B	BT-5112	Special module	2 channels orthogonal/pulse encoder input, 24V single-ended, 1.5MHz	Published
18	-5C	BT-5121	Special module	1 channel SSI encoder input, 5V differential, 2MHz	Published

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19	-5D	BT-5141	Special module	1 channel orthogonal/pulse encoder input, 5V differential, 10MHz	Published
20	-5G	BT-5312	Special module	2-Channel Modbus Serial Port Module	Published
21	-6V	BT-623F	Special module	8 channels / digital input, source & sink /NPN&PNP/ 24VDC, supports counter function (counter frequency up to 200Hz); 8 channels / digital output / source / PNP / 24Vdc/0.5A	Published

1.5 LED Indicator

The LED status indicator allows the user to easily check the power and communication status of the communication board and I/O module, as well as the operating status of the I/O channel. For detailed indicator status, refer to the indicator description.



1.6 LCD Screen

The front of the module provides 8*8 and 16*8 LCD interfaces, which can view the model, IO module channel working status, and version information of the module. For the details of the LCD screen, you can view the corresponding chapters of the corresponding module.

1.7 Grounding Protection

In order for the system and the instruments connected to it to operate reliably and to guarantee measurement and control accuracy. The module is provided with a ground terminal at the top.



1.8 Wiring

Use a push-in connection to connect single wires or crimp terminal (ferrule) wires without any additional tools. Users save time on cabling and guarantee a secure connection regardless of wiring experience.



The wiring harness fixed end at the bottom of the module is used to fix the cable when the IO module is connected to a multi-strand cable.



1.9 Rail Mounting

The DIN rail can be mounted safely and reliably on a 35 mm DIN rail.



1.10 Installation Dimensions

B32 module installation size: 110*84*28mm, plus IO terminal: 110*100*28mm





B64 module installation size: 110*84*44mm, plus IO terminal: 110*100*44mm

2 Module Parameter

2.1 Technical Parameter

General Parameters			
Sustam Douga	Supply: 19.2-28.8VDC (nominal: 24VDC)		
System Power	Protection: power supply anti-reverse polarity protection		
Power Consumption	100mA@24VDC		
Internal BUS Supply Current	Max.2.5A@5.0VDC		
Isolation	The system power to field power: isolation		
IO Modules Supported	B32:2 B64:4		
Wiring	Max.1.5mm ² (AWG 17)		
	Environment Specification		
Operating Temperature of Vertical Installation	-20°C~60°C		
Operating Temperature of Horizontal Installation	-20°C~50°C		
Relative Humidity	5%~95%RH, no condensation		
Storage Temperature	-40°C~85°C		
Storage Humidity	5%~95%RH, no condensation		
Ingress Protection Rating	IP20		
EMC specifications	Comply with IEC61131-2、IEC61000-4		
	Programming Specifications		
Programming Software	Codesys V3.5.19.70		
Programming Language	IEC61131-3(LD、IL、ST、CFC、SFC)		
Maximum Task Status	5		
Program Memory	1M Bytes		
Data Storage	1M Bytes		
Power-down Protection Area	3K Bytes		
Maximum Expansion Module Input	1K Bytes		
Maximum Expansion Module Output	1K Bytes		
Maximum Number of Tasks	5		

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Bitwise Operations Cycle	0.21us	
Word Operation Cycle	0.21us	
Double Word Operation Cycle	0.64us	
Minimum Program Run Cycle	1ms	
RTC	Not supported	
	Communication Parameters	
Communication Interface	2*RJ45	
Network Port Parameters	10/100Mbpa self-adaptive, full-duplex	
Modbus TCP Client	Supports up to 5 Modbus TCP server connections	
Modbus TCP Server	Supports up to 5 Modbus TCP client connections	



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Disconnect all devices from power, including connected devices, before removing any covers, or installing or removing any accessories, hardware, cables, or wires, except in specific circumstances specified in the appropriate hardware guidelines for this device.

As instructed, it is important to use a voltage sensing device with an appropriate rating to detect a power outage at the appropriate place and time.

Replace and tighten all covers, accessories, hardware, cables, and wires, and confirm that the ground connection is correct before powering on the device.

When operating this equipment and related products, the specified voltage must be used.

Failure to follow the instructions may result in the loss of the protection provided

by the device, which may result in serious consequences such as death, personal

injury, or damage to the device.

2.2 Hardware Interfaces

2.2.1 System Power and Network Interfaces



1. The wiring of the system power module adopts 3Pin 3.5mm pitch spring terminal, and the terminal is defined as follows:

NO.	Mark	Definition
1	PE	Ground terminal
2	0V	The power input is negative
3	24V	The power input is positive

2.Modbus TCP network interfaces

LAN1/LAN2 switch cascading function is supported, 10Mbps/100Mbps adaptive rate.

Speed: Network speed Indicator (Green)

ON:100Mbps

OFF:10Mbps

Link/Act: Link status Indicator, Active Indicator (orange)

ON: Link UP

OFF: Link DOWN

Flash: Active

SHIELD: RJ45 crystal head shield interface



Pin	Definition	Description
1	TD+	Transmit+
2	TD-	Transmit -
3	RD+	Receive+
4		
5		
6	RD-	Receive -
7		
8		

RJ45 interface pin definition

2.2.2 Reset button



Reset

Reset: Reset the module button, press and hold the button for more than 5 seconds,

and all parameters of the module will be restored to the default value.

2.2.3 Configuration interface

Config

Config: Configuration port, a standard Type-C interface used to configure device parameters and upgrade firmware.

2.2.4 LED Indicators



PWR Power indicator (Green)	Definition	
ON	The system power supply is normal	
OFF	The system power supply is abnormal	
RUN Device operation indicator (Green).	Definition	
Flash	The PLC is in RUN mode	
OFF	The PLC is in STOP mode	
NET Network Status Indicator (Red)	Definition	
Flash	The number and type of I/O modules configured on the PLC are the same as those on the backplane	
OFF	The number and type of I/O modules configured on the PLC are inconsistent with those on the backplane	
ERR IOError Indicator (Red)	Definition	
Flash	The I/O module is abnormal	
OFF	The I/O module is in the normal state	

2.2.5 LCD Display Interface

The initial display interface of the LCD is as follows, which can display the module model, the slot module model, and the channel situation. (Channels have input or output value channels that display "*", and no input or output channels display "-".)



The module information display is 2 pages in total, The first line of each page represents the module name B2341, the first page mainly displays information such as channel status and module type, the second page mainly displays information such as the IP address of the module.

Page 1: Information such as channel status and its module name.

Line 1: the module name B2341;

Line 2: the module BT-623F located in slot 1;

Line 3: the module BT-222F in slot 2;

Lines 4-8: the channel input or output status, the channel has input or output value

channels show "*", and the no input and output channels show "-";

Page 2: Software version information

Line 1: the module model name (B2341).

Lines 2-4: the IP address information for the module (192.168.0.15).

Lines 5-6: the app version information for the module

Lines 7-8: the module's fault information

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The module information display is 2 pages in total, the first number in the first line of each page indicates the slot number (1) of the module, shown at the back is the module BT-623F.The first page mainly displays the channel status and information, module types and other information, and the second page mainly displays the software version information.

Page 1: Channel status and information, module name.

Line 1: the slot number (1) in which the module is located, and its module name BT-623F;

Line 2: the module type 8DI&8DO;

Line 3-6: channel input or output display;

8DI: Line 3-4

Lines 3 - 4: 8DI input display, there is a display corresponding indication of the corresponding channel, and when there is no input, it is displayed as "-" from right to left,

1. For example, there are 8 inputs, and the 4th line is displayed as:

76543210

2. If there is no input in 8 channels, it will be displayed as:

3. After the module is connected and disconnected after communication, the application layer is disconnected, and this line is displayed as:

__fault_ 8DO:

Line 5-6:

Lines 5 - 6 : the 8DO output display, there is a display corresponding to indicate the corresponding channel, and when there is no output, it is displayed as "-" from right to left,

1. For example, 8 channels have outputs, and line 6 is displayed as:

76543210

2. If there is no output in 8 channels, it will be displayed as:

3. After the communication board is connected to the master station and then disconnected, the application layer is disconnected, and after the fault output is executed, this line is displayed as: __fault_

Page 2: Software version information

Line 1: the slot number (1) in which the module is located, and its module model name (BT-623F).

Lines 3 - 4: show the IAP version information (V2.02) for the module

Lines 6 - 7: show the APP version information (V2.03) of the module



Note: The module information display is 2 pages in total, the first number in the first row of each page represents the slot number of the module, the module is displayed later, the first page mainly displays the channel status, information prompt, and its

module type and other information, and the second page mainly displays the software version information.

Page 1: Information such as channel status and its module type

Line 1: the slot number (2) in which the module is located and its module name (BT-222F).

Line 2: the type of module (16DO Src).

Lines 4-5: the channel output display prompt, there is a display corresponding to indicate the corresponding channel, and when there is no output, it is displayed as "-" from right to left,

1. For example, 16 channels have outputs, and these two lines are displayed as: 76543210 FEDCBA98

2. For example, when there is no output for 16 channels, it will be displayed as:

3. After joining the communication board and connecting with the master station and then disconnecting, the application layer is disconnected, and after the fault output is executed, these two lines are displayed as:

__fault__fault_

Page 2: Software version information

Line 1: the slot number (2) where the module is located, and its module name (BT-222F).

Lines 3-4: the IAP version information (V2.02) for the module

Lines 6-7: the APP version information (V3.02) of the module
3 IO Config Software

3.1 Software Interface

IO Config				- 🗗 🗙 👔
File Tool Option Help menu	bar			
🐟 🖻 🖪 🖬 🎕 🔍 🙂 💽 🔍 🛛				
Project 🔹 🗸	Module information Proces	s Data Config Params Address N	ap Installation information	Ψ
	Name Project	t value	Online value	
project bar	info	rmation bar		
Properties 👻 🕂				
Upload interface SerialPort 🔻				
COM COM1 •				
Device IP 192.168. 1 .100				
property bar	Logs DATE Info 2020-02-24 Info 2020-02-24 Info 2020-02-24 Info 2020-02-24 Info 2020-02-24 Info 2020-02-24 Info 2020-02-24	TIME SOURCE 13:41:11 Main 13:41:11 Main 14:01:12 NewProject 14:02:20 CN-8031(COM1) 17:09:29 NewProject	LoadidSDJBLADE-IO-CONFIG-HSP-2020022 IO ConfigStattedI current version:1.0.0.6 Commboard CN-8031 has been created! Module Manager Project NewProject deleted!	Doml

menu bar: The menu of the IO-Config software.

Toolbar: Commonly used user menus.

Project Window: Displays the currently established projects.

Properties window: Displays the specific parameters of the current project.

Main Window:

Basic Information: The module name, module number, hardware version, software

version, module description, current consumption, and device manufacturer of the module.

Process data: It can be used to monitor channel data online.

Parameters: Modifiable module parameters.

Address Table: The address area occupied by the I/O module.

Installation Information: The module description, current consumption, module size,

residual current, and product images.

Message window: Outputs the operation log of the current operation.

3.2.1 Menu Bar

File

Menu	Submenu	Description
Project	Create a new	Create a new project
	project	
	Open the project	Open a saved project
	Save all	Save the current project
	Save As	Save the current project as a
		new project
Quit		Exit the software

Tool

Menu	Description
Search for	A new window pops up to search for devices by
the device	network or serial communication
Firmware	A new window pops up for firmware upgrade for B2341
upgrades	device and $I/0$ module

Options

Menu	Description
Configuration	It can modify the software display language,
	software interface display color, and device
	library description file path

Help

Menu	Description
About	It can view the company information and the version
	number of the configuration software
Exception	A new window pops up, an abnormal exit reminder,
help	please install Microsoft patches for Windos7 Sp1/XP
	and the following versions.

3.2.2 Toolbar

Menu general shortcut icons:

Icon	Name	Menu	Description
	Create a new project	File - Project - New Project	Create a new project
	Open the project	File - Project - Open Project	Open a saved project
	Save all	File-Project-All Save	Save the current project
	Save As	File-Project- Save As	Save the current project as a new project
<u></u>	Configuration	Option -	Modify the display language,

		Configuration	accent color, and device	
			library description	
	Soorah Doviao	Tools - Search	A new window pops up, search	
	ConfigurationSearch DeviceTools - Search devicesA devicesFirmware upgradesTools - Firmware UpgradeTools ToolsAboutHelp - aboutTools HelpException helpHelp - Exception Helpab sr	for the device		
Imi	Firmware	Tools - Firmware	A new window pops up for	
1	upgrades	Upgrade	module firmware upgrade	
0			To view the information, the	
	About	Help - about	version number of the	
			configuration software	
			A new window pops up, an	
	Enconting	Usla Encontina	abnormal exit reminder, WIN7	
	Exception	Help - Exception	sp1/XP system versions below	
	netp	петр	please install Microsoft	
			patches.	

3.2.3 Project Window

Displays the currently established projects.

IO Config						- 0 ×
File Tool Op	tion Help					
🔍 New Project 🧁	Save All(Ctrl+S)	🛓 📿 Search De	evice De	vice Update	🖸 🚺 🗄 🖭 🖸 d	Dnline 🕞 Upload Params 🔂 Download Params 💼 🦵 🕞 💽
Project	······ • •	Module Inform	nation Proces	s Data Config	Params Address M	ap Installation Information
NewProject		Adaptor Config				
A R2341 Program	mable IO(192 168 0 15)	Name		Param V	alue	
	1111101010(152.100.0.15)	Source of Con	figuration Da	ta Configurat	tion Software 🔻	
1:B1-623F(6D)	0.00 24Vac)	FieldBus Confid	o Parameters			
P12:B1-3238(8AI	0~20ma Input)	Name	g rurumeters Pi	aram Value		
		MAC Address	AC	- 1D - DE - 83	1 - 23 - 41	
		IP Address	19	2 168 0 1	5	
		Net Mask	25	5 255 255 (0	
		Net Gateway	19	2 168 0 1	-	
		OLEDDirolay T	Time(min) 1			
		Occobispiay	inne(inni)			
4						
Properties	· · · · · · · · · · · · · · · · · · ·					
Name	B2341 Programmable I					
Module ID Description	0x30082341					
Description Device version	V1.00					
Module Number	2					
Interface	Ethernet •					
Device IP	192.168.0.15					
COM	COM1 ·					
Refresh Period	200	Logs				
		•	DATE	TIME	SOURCE	MESSAGE
		🔵 Info	2024-11-26	11:18:27 /	B2341 Programma	Upload completed
		Info	2024-11-26	11:18:27 /	NewProject	
		Info	2024-11-26	11:20:40 /	(Online) B2341 P	Online
		🛑 Info	2024-11-26	11:23:24 /	B2341 Programma	Offline!
		🕒 Info	2024-11-26	11:28:32 /	B2341 Programma	Export MapD \ODOT\6 program\IO Config\B2341_Programmable_IO(192.168.0.15)_Address_Map_2024-11-26_112736.txt
		4				

3.2.4 Properties Window

The Properties window displays the specific parameters of the current item.

Adapter module, PLC (module name, module number, module description, device version, number of modules, interface selection, device IP address, serial slogan, online refresh cycle).

IO Config						- 0 ×
File Tool Op	tion Help					
🔿 New Project 🧁	Save All(Ctrl+S)	🛓 📿 Search D	Device 🚺 De	vice Update	0 0 1 1 0 0	Dnline 🕞 Upload Params 🙌 Download Params 🛍 🦵 🕞 🕞
Project	······································	Module Inform	nation Proces	ss Data Config	Params Address M	tap Installation Information
NewProject		Adaptor Confi				
A R2341 Program	mable IO(192 168 0 15)	Name		Param V	alue	
	8/8DO 24/(44)	Source of Cor	nfiguration Da	ata Configurat	tion Software 🔻	
1.81-023F(8D)	0. 20ma (anut)	FieldBus Confi	io Parameters		1	
2.B1-3230(0A)	0~20ma input)	Name	P	Param Value		
		MAC Address	. Δ(C · 1D · DE · 83	1 - 23 - 41	
		IP Address	19	2.168.0.1	5	
		Net Mask	25	5.255.255.	D	
		Net Gateway	19	2.168.0.1		
		OI EDDisplay	Time(min) 1			
4	Þ					
Properties	4					
Name	B2341 Programmable I					
Module ID	0x300B2341					
Description	Programmable IO					
Device version	V1.00					
Module Number	2					
Interface	Ethernet *					
Device IP	192.168.0.15					
COM	COM1 •	l and				-
Refresh Period	200	Logs				
			DATE	11.10.27	SOURCE	ME35AGE
			2024-11-26	11:18:277	B2341 Programma	
		into	2024-11-26	11:18:277	NewProject	
		into	2024-11-26	11:20:407	[Unline] B2341 P	Unine
		into	2024-11-26	11:23:247	B2341 Programma	
		into 👘	2024-11-26	11:28:32 /	B2341 Programma	Export MapD\(DDDT\6 program\)O Conlig\82341_Programmable_I0(192168.0.15)_Address_Map_2024-11-26_112736.bt
						4

I/O module (module name, module number, module description, number of

submodules)

IO Config			- 0 ×							
File Tool Option Help										
🔍 New Project 📄 🔚 Save All(Ctrl+S) 📻 餐	🕍 🔍 Search Device 🕕 Devic	e Update 🚺 🕕 🔡 💼								
Project	Module Information Process I	Iodule Information Process Data Config Params, Address Map Installation Information								
A NewProject	Module Config Parameters	Module Config Parameters								
B2341 Programmable IO(192.168.0.15)	Name	Param Value								
1:BT-623F(8DI&8DO 24Vdc)	Input Filtering Time(ms)	10								
2:BT-3238(8AI 0~20ma Input)	Input Holding Time(ms)	Disable •								
19	Fault Action for Output(CH 0)	Hold Last Output Value 🔹								
	Fault Action for Output(CH 1)	Hold Last Output Value 🔹								
	Fault Action for Output(CH 2)	Hold Last Output Value 💌								
	Fault Action for Output(CH 3)	Hold Last Output Value 🔹								
	Fault Action for Output(CH 4)	Hold Last Output Value 🔹								
	Fault Action for Output(CH 5)	Hold Last Output Value 🔹								
	Fault Action for Output(CH 6)	Hold Last Output Value 🔹								
	Fault Action for Output(CH 7)	Hold Last Output Value 🔹								
	Fault Value for Output(CH 0)	0								
	Fault Value for Output(CH 1)	0								
Properties • 4	Fault Value for Output(CH 2)	0								
Module ID 0x3000623F	Fault Value for Output(CH 3)	0								
Description 8 Digital Input ,DC 24	Fault Value for Output(CH 4)	0								
Submodule Number 0	Fault Value for Output(CH 5)	0								
	Fault Value for Output(CH 6)	0								
	Fault Value for Output(CH 7)	0								
				1						
	Logs		- 1							
	* DATE	TIME SOURCE	MESSAGE							
	0 Info 2024-11-26	11:18:27 / B2341 Programm	a Upload completed							
	linfo 2024-11-26	11:20:40 / [Online] B2341	P Online							
	Info 2024-11-26	11:23:24 / B2341 Programm	al Offline!							
	linfo 2024-11-26	11:28:32 / B2341 Programm	al Export MapD\ODOT\6 program\IO Config\82341_Programmable_IO(192.168.0.15)_Address_Map_2024-11-26_112736.txt							
	4									

3.2.5 Main window

Basic information: The module name, module number, hardware version, software version, module description, current consumption, and equipment manufacturer of the adapter module, PLC and I/O module can be displayed.

					-
Help					
ve All(Ctrl+S) 🔂 🎼	🔋 📿 Search D	Device De	evice Update	🚺 🕕 🔡 🛄 🖉	Dnline 🗗 Upload Params 🛃 Download Params 💼 🦵 🕞 💽
a	Module Inform	nation Proce	ss Data Confi	g Params Address M	ap Installation Information
	Name	Pr	oject Value		Online Value
IO(192,168.0.15	Name	B23	341 Programm	nable IO	**
24V(dc)	Module ID	0x3	300B2341		
zavuc)	Vendor Name	a Sic	huan Odot Au	tomation System Co.	Ltd
na input)	Description	Pro	grammable IG	D	
	Current Cons	umption -25	- 500mA		
► ₽ I41 Programmable I 0082341					
grammable IO					
00					
ernet V					
100.0.15					
•	Loos				
	+	DATE	TIME	SOURCE	MESSAGE
	• Info	DATE 2024-11-26	TIME	SOURCE B2341 Programma	MESSAGE Upload completed
	• Info Info	DATE 2024-11-26 2024-11-26	TIME 5 11:18:27 / 5 11:18:27 /	SOURCE B2341 Programma NewProject	MESSAGE Upload completed Commboard 82341 Programmable IO has been created!
	Info Info Info	DATE 2024-11-26 2024-11-26 2024-11-26	TIME 5 11:18:27 / 5 11:18:27 / 5 11:20:40 /	SOURCE B2341 Programma NewProject [Online] B2341 P	MESSAGE Upload completed Commboard B2341 Programmable IO has been created! Online
	Info Info Info Info Info Info	DATE 2024-11-26 2024-11-26 2024-11-26 2024-11-26	TIME 5 11:18:27 / 5 11:18:27 / 5 11:20:40 / 5 11:23:24 /	SOURCE B2341 Programma NewProject [Online] B2341 P B2341 Programma	MESSAGE Upload completed Commbacry B2341 Programmable IO has been created! Online Ofline Ofline
	Info Info Info Info Info Info Info Info	DATE 2024-11-26 2024-11-26 2024-11-26 2024-11-26 2024-11-26	TIME 5 11:18:27 / 5 11:18:27 / 5 11:20:40 / 5 11:23:24 / 5 11:23:24 /	SOURCE B2341 Programma NewProject [Online] B2341 P B2341 Programma B2341 Programma	MESSAGE Upload completed Commboard 82341 Programmable IO has been created! Online Offline!
	Help e All(Csrl+5) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Help e All(Crt+5) C Asach I Name Name Note I Vendor Name Description Current Cons 41 Programmable1 promable IO 20 emet • 168 0.015 M	Help e All(Crt + 5) (C) Search Device (1) D Name Pro- Name Pro- Name Search Device (2) D Name Search Device (2) D Name Pro- Name Search Device (2) D Name Search D Name	Help e All(Crit + 5) () () () Search Device () Device Update () (192,168.0.15) 24Vdc) va Input) () () () () () () () () () () () () () (Help e All(Crit+5) C C Search Device Device Update O C Control Parama Address M Mare Project Value Name Project Value Name Project Value Name Project Value Project Value Name Project Value Name Project Value Project Value Name Project Value Name Project Value Project Value Vendor Name Sichuan Odot Autonation System Co. Description Programmable IO Current Consumption - 2500mA 41 Programmable IO Programmable IO Programbel IO Programbel IO Programbel IO Programbel IO Programm

Process data: Displays the channel information of the I/O module for online

monitoring of the channel data.

IO Config							- 0	×					
File Tool Opti	on Help												
🔍 New Project 🚞	🕄 Save All(Ctrl+S) 📷 🍕	🔋 🔍 Search Device 🕔 Device U	Ipdate 🚺 🌖	II 🗊 🌄 📴 🕑	Ð								
Project	•	Module Information Process Data	Module Information Process Data Config Params Address Map Installation Information 🗢										
A NewProject		o input:											
A R2341 Programm	able IO(192.168.0.15)	NAME	TYPE	ONLINE VALUE									
11:RT_623E/8D18/		 Digital Input Data(CH 0-7) 	Unsigned8										
12-07-2229(0ALO	20ma (mart)	Digital Input Data(CH 0)	Bit										
P_12.01-5250(0AL0	~20ma input)	Digital Input Data(CH 1	Bit										
		Digital Input Data(CH 2	Bit										
		Digital Input Data(CH 3)	Bit										
		Digital Input Data(CH 4	Bit										
		Digital Input Data(CH 5)	Bit										
		Digital Input Data(CH 6	Bit										
		Digital Input Data(CH 7	Bit										
		0 Output:											
		NAME	ТҮРЕ	ONLINE VALUE	PROJECT VALUE								
		 Digital Output Data(CH 0_ 	Unsigned8										
4	- 1	ł				J							
Name	BT-623F(8DI&8DO 24V												
Module ID	0x3000623F												
Description	8 Digital Input ,DC 24												
Submodule Number	0												
		Logs											
		* DATE TI	ME SOURCE	MESSAGE									
		Info 2024-11-26 11	:18:27 / B2341 Pro	ogrammal Upload com	pleted								
		Info 2024-11-26 11	:18:27 / NewProje	ct Commboard	B2341 Programmable IO has b	en created!							
		Info 2024-11-26 11	:20:40 / 【Online】	B2341 P Online									
		Info 2024-11-26 11	:23:24 / B2341 Pro	ogrammal Offline!									
		🕐 info 2024-11-26 11	:28:32 / B2341 Pro	ogrammal _ Export Mapt	0:\ODOT\6 program\IO Config\	2341_Programmable_IO(192.168.0.15)_Address_Ma	p_2024-11-26_112736.txt						
		4											

Configuration parameters: module parameters of display adapter modules, PLC and

IO Config			- 0 ×
File Tool Option Help			
🔍 New Project 🚞 🔚 Save All(Ctrl+S) 📷 🎼	🔋 📿 Search Device Devic	ce Update 🚺 🕕 🔡 📋	
Project 🔹 🔻	Module Information Process	Data Config Params Address	Map Installation Information
A NewProject	Module Config Parameters		
B2341 Programmable IO(192.168.0.15)	Name	Param Value	
1:BT-623F(8DI&8DO 24Vdc)	Input Filtering Time(ms)	10	
2:BT-3238(8AI 0~20ma Input)	Input Holding Time(ms)	Disable 🔻	
	Fault Action for Output(CH 0)	Hold Last Output Value 🔻	
	Fault Action for Output(CH 1)	Hold Last Output Value 🔻	
	Fault Action for Output(CH 2)	Hold Last Output Value 🔻	
	Fault Action for Output(CH 3)	Hold Last Output Value 💌	
	Fault Action for Output(CH 4)	Hold Last Output Value 🔻	
	Fault Action for Output(CH 5)	Hold Last Output Value 🔹	
	Fault Action for Output(CH 6)	Hold Last Output Value 🔹	
	Fault Action for Output(CH 7)	Hold Last Output Value 🔹	
	Fault Value for Output(CH 0)	0	
	Fault Value for Output(CH 1)	0	
Properties • 4	Fault Value for Output(CH 2)	0	
Module ID 0x3000623E	Fault Value for Output(CH 3)	0	
Description 8 Digital Input ,DC 24	Fault Value for Output(CH 4)	0	
Submodule Number 0	Fault Value for Output(CH 5)	0	
	Fault Value for Output(CH 6)	0	
	Fault Value for Output(CH 7)	0	
	Logs		- 1
	* DATE	TIME SOURCE	MESSAGE
	Info 2024-11-26	11:18:27 / B2341 Programma	al Upload completed
	Into 2024-11-26	11:18:27 / NewProject	Commboard B2341 Programmable IO has been created!
	into 2024-11-26 Info 2024-11-26	11:20:407 [Online] B23411	Office!
	2024-11-26	11:28:32 / B2341 Programmi	Contres Soort Mar0X00.0016 program10 Config182341 Programmable (0/192.168.0.15) Address Map 2024-11-26.113786 to
	2024-11-20	Theorem Deservice of the second se	
			· · · · · · · · · · · · · · · · · · ·

I/O modules, and module parameters that can be modified.

Address Table: Displays the storage area where the input and output channels of the

I/O module are located.

10 Config							- 0	×
File Tool Option Help								
🔍 New Project 📄 📙 Save All(Ctrl+S) 🗮 🔅	Search Device 🕔 Device Update	00						
Project	Module Information Process Data Conf	g Params Address M	ap nstallation Information					Ŧ
NewProject	Name	Input Bit(1xxxx)	Output Bit(0xxxx)	Input Word(3xxxx)	Output Word(4xxx			
B2341 Programmable (O(192 168 0 15))	B2341 Programmable IO(192 168 0 15) (A 1# BT-623F(8DI&8DO 24Vdc)							
	Digital Input Data(CH 0)	0x00000000						
1:B1-623F(6D1&6D0 24Vdc)	Digital Input Data(CH 1)	0x00000001						
2:BT-3238(8AI 0~20ma Input)	Digital Input Data(CH 2)	0x0000002						
	Digital Input Data(CH 3)	0x0000003						
	Digital Input Data(CH 4)	0x00000004						
	Digital Input Data(CH 5)	0x00000005						
	Digital Input Data(CH 6)	0x0000006						
	Digital Input Data(CH 7)	0x0000007						
	Digital Output Data(CH 0)		0x0000000					
	Digital Output Data(CH 1)		0x0000001					
	Digital Output Data(CH 2)		0x0000002					
	Digital Output Data(CH 3)		0x0000003					
•	Digital Output Data(CH 4)		0x0000004					
Properties	Digital Output Data(CH 5)		0x0000005					
Name BT-623F(8DI&8DO 24V	Digital Output Data(CH 6)		0x0000006					
Module ID 0x3000623F	Digital Output Data(CH 7)		0x0000007					
Description 8 Digital Input ,DC 24								
Submodule Number 0								
						Export N	tap	
	Logs							···· • a
	* DATE TIME	SOURCE	MESSAGE					
	Info 2024-11-26 11:18:27	B2341 Programma	Upload completed					
	Info 2024-11-26 11:18:27	NewProject	Commboard B2341 Program	nmable IO has been crea	ted!			
	Info 2024-11-26 11:20:40	[Online] B2341 P	Online					
	Info 2024-11-26 11:23:24	B2341 Programma	Offline!					
	Control 2024-11-26 11:28:32	B2341 Programma	Export MapD:\ODOT\6 prog	gram\IO Config\82341_P	rogrammable_IO(192.168	0.15)_Address_Map_2024-11-26_112736.txt		
	4							- × *

Installation information: Module description, current consumption, module size, residual current, and product pictures of adapter modules, PLCs, and I/O modules can be displayed.

IO Config						-	0	\times
File Tool Opti	on Help							
🔍 New Project 📄 [🕽 Save All(Ctrl+S) 🔂 🍕	🔋 📿 Search 🛙	evice Devi	ice Update	0 0 💷 🍅			
Project	• • •	Module Inform	nation Process	Data Confi	g Params Address M	Map Installation Information		Ŧ
NewProject B2341 Programn 1:01-623F(80)& 1:01-623F(80)& 1:02-823	hable IO(192.168.0.15) 3DO 24Vdc) ~20ma Input)	BT-623F(Description: Current Con Module Size	8DI&8DO 2 8 Digital Input , sumption:85 m.	4Vdc) DC 24V,Sou A	rce or Sink & 8 Digita	tal Ourput, DC 24V,Source (TTL)		
Properties Name	↓ ↓ BT-623F(8DI&8DO 24V							
Module ID	0x3000623F							
Description	8 Digital Input ,DC 24							
Submodule Number	0							
		Loos						x 0
		•	DATE	TIME	SOURCE	MESSAGE		-
		🔵 Info	2024-11-26	11:18:27 /	B2341 Programma	al Upload completed		
		🔵 Info	2024-11-26	11:18:27 /	NewProject	Commboard B2341 Programmable IO has been created!		
		🔵 Info	2024-11-26	11:20:40 /	[Online] B2341 P	P Online		
		🔵 Info	2024-11-26	11:23:24 /	B2341 Programma	a' Offline!		
		🕒 Info	2024-11-26	11:28:32 /	B2341 Programma	a) Export MapD\ODOT\6 program\IO Config\82341_Programmable_IO(192.168.0.15)_Address_Map_2024+11+26_112736.txt		
		4						, T

3.2.6 Message window

Displays the real-time information of the current operation, and displays all operation

log records such as creating a new project, uploading, downloading, modifying

configuration parameters, and copying and pasting output.

IO Config						- 0	×
File Tool Option Help							
🔍 New Project 📄 🔚 Save All(Ctrl+S) 🔂	😚 📿 Search Device 🤅	🕗 Device Update 🚺 🚺 🔡 📋					
Project 🕶 🖛	Module Information	Process Data Config Params Address M	ap Installation Information				Ŧ
A NewProject	Name	Project Value		Online Value			
4 🌊 B2341 Programmable IO(192.168.0.15)	Name	BT-623F(8D1&8DO 24Vdc)					
1:BT-623F(8DI&8DO 24Vdc)	Module ID	0x3000623F					
2-BT-3238(8AL0~20ma (nput)	Description	8 Digital Input ,DC 24V,Source or Sink	& 8 Digital Output ,DC 24V,Source (TTL)				
Gent streten e sens stret	Current Consumption	85mA					
4]						
Properties							
Name BT-623F(8DI&8DO 24V							
Module ID 0x3000623F							
Description 8 Digital Input ,DC 24							
Submodule Number 0							
							-
	Logs						· • ņ
	DATE	11-26 11:18:27 (B2341 Programma)	MESSAGE				
	Info 2024-	11-26 11:18:27 / NewProject		d			
	Info 2024-	11-26 11-20:40 [Online] B2341 P		na:			
	Info 2024-	11-26 11:23:24 R2341 Programma					
	1 info 2024-	11-26 11:28:32 B2341 Programma	Export MapDAODOT/6 program\IO Confin\82341 Pro	orammable (O(192.168.0.15) Address	dan 2024-11-26 112736 tvt		-
	2024	n zo mizo.sz misok mogramima		Annual station concerning sources	anti-and a second second		-
							- Þ - I

3.2.7 Shortcut key

Shortcut key	Menu	Description
Ctrl + C	Engineering/PLC,	Copy modules for engineering, PLCs,

	Adapter - Copy	adapters, and I/O modules
Ctrl + V	Engineering/PLC,	Paste modules for engineering, PLC,
	Adapter-Paste	adapters, and $I/0$ modules
Delete	Engineering/PLC,	Delete modules for engineering, PLC,
	Adapter - Delete	adapters, and $I/0$ modules
Ctrl + S	File-Project-All	Save the configuration project
	Save	
Ctrl + M	PLC, adapter -	Export address tables for PLCs,
	export address	adapters, and $I/0$ modules
	table	

3.3 Software Features

3.3.1 Function

- A. Module selection.
- B. View the module configuration parameters and the data address of the module.
- C. Modify the module configuration parameters.
- D. Online debugging module.
- E. Search for the device.
- F. Firmware upgrades.

3.3.2 Communication Interface

The Ethernet interface is used as the communication interface for B2341 device

upload and download, I/O module upload and download, modification of mounted I/O

module parameters, online testing, and firmware upgrade.

3.3.3 View the Configuration Parameters

For B2341 devices and different I/O modules, click Configuration Parameters to view

the default configuration parameters of the module.

B2341 default parameter interface:

📶 IO Config					- 0 X	
File Tool Opt	tion Help					
🐟 New Project 🚞	📙 Save All(Ctrl+S) 📴 🍕	📔 🔍 Search Device 🌔	Device Update	0 🕕 🗄 🖭	Online 🗗 Upload Params 🔂 Download Params 💼 🅞 📴 🛃	
Project	• • • •	Module Information F	Process Data Confi	g Params Address N	1ap Installation Information	
NewProject		Adaptor Config Param	neters			l
A B2341 Program	mable IO(192.168.0.15)	Name	Param V	alue		
1:BT-623E(8D)	8/8DO 24Vdc)	Source of Configurati	on Data Configura	tion Software 🔻		l
10 1:0T 0251(001	020ma (aput)	FieldBus Config Param	neters			l
ATTS: 01-25220(0M)	0-20ma input)	Name	Param Value			1
		MAC Address	AC : 1D : DF : 8	3 : 23 : 41		
		IP Address	192.168.0.1	5		
		Net Mask	255.255.255.	0		
		Net Gateway	192.168.0.	1		l
		OLEDDisplay Time(mi	in) 1			l
		·				1
4	•					
Properties	₩ #					
Name	B2341 Programmable I					
Description	Programmable IO					
Device version	V1.00					
Module Number	2					
Interface	Ethernet *					
Device IP	192.168.0.15					
COM	COM1 ·					
Refresh Period	200	Logs			× 1	
		DATE	11-25 5-56-40 PI	SOURCE	MESSAGE	
		lnfo 2024-	11-25 5:56:40 PI	BT-3238(8AL0-20r		
		Info 2024-	11-25 5:56:40 PI	BT-3238(8AI 0~20r	Upload completed	
		Info 2024-"	11-25 5:56:40 PI	B2341 Programma	Upload completed	
		Info 2024-'	11-25 5:56:40 PI	NewProject	Commboard 82341 Programmable IO has been created!	
		4				

The I/O module uses the 16DO module (BT-222F) as an example, and the default parameter interface is as follows, and the configuration parameters of other I/O

_					
10 Config				- 0	×
File Tool Option Help					
New Project 🔤 🔚 Save All(Ctrl+S) 💽	Search Device	Device Update			
Project 👻 🤻	Module Information P	rocess Data Config	Params Address M	Map Installation Information	-
A NewProject	Module Config Parame	ters			
B2341 Programmable IO(192.168.0.15)	Name	Param Value	<u> </u>		
1:BT-623F(8DI&8DO 24Vdc)	16Bit Data Format	A_B	•		
2:BT-3238(8AI 0~20ma Input)	Current Type(CH 0)	4-20mA	•		
	Current Type(CH 1)	4-20mA	•		
	Current Type(CH 2)	4-20mA	-		
	Current Type(CH 3)	4-20mA	-		
	Current Type(CH 4)	4-20mA	-		
	Current Type(CH 5)	4-20mA	-		
	Current Type(CH 6)	4-20mA	•		
	Current Type(CH 7)	4-20mA	-		
	Filter frequency(CH 0)	5			
	Filter frequency(CH 1)	5			
	Filter frequency(CH 2)	5			
Properties • • •	Filter frequency(CH 3)	5			
Module ID 0v30003238	Filter frequency(CH 4)	5			
Description 8 Analog Input ,(0~20	Filter frequency(CH 5)	5			
Submodule Number 0	Filter frequency(CH 6)	5			
	Filter frequency(CH 7)	5			
	Logs				
	* DATE	TIME	SOURCE	MESSAGE	-
	Info 2024-1	1-25 5:56:40 PI	BT-623F(8DI&8DO	Upload completed	
	Info 2024-1	1-25 5:56:40 PI	BT-3238(8AI 0~20r	r Start uploading	_
	Info 2024-1	1-25 5:56:40 PI	BT-3238(8AI 0~20r	r Upload completed	
	Info 2024-1	1-25 5:56:40 PI	B2341 Programma	Upload completed	
	02024-1 Oct	1-25 5:56:40 PI	NewProject	Commboard 82341 Programmable IQ has been created!	ļ
	<				

modules are viewed in the same way.

3.3.4 Modify the Configuration Parameters

The configuration parameters of the B2341 and the I/O module can be modified in the IO-Config software. B2341 parameters must be modified with the help of IO-Config software.

Take the B2341 PLC and BT-623F and BT-3238 modules as examples to demonstrate the module parameter configuration. The B2341 uses Ethernet to configure the interface, click search for devices Search Device, Follow the steps shown below to upload device.

📶 Search											- 0 ×
Network Card	以太网:TwinCAT-	Intel PCI Ethernet Adapter (Gig	bit) V2 192.168	.1.234 •	Se	arch Upl	oad Update	Cancel			
Device		1				2 4					Message
Alia	as	Device Type	Device ID	Hardware	Version	Software Versi	on Software Date	MAC	IP address	Subnet	2024-11-25 06:02:39 050 192.168.1.234
B2341 Progra								AC:1D:DF:83:	23:41 192.168.0.15	255.255	2024-11-25 06:02:39 051 Executing
				3							2024-11-25 06:02:39 555 Search completed, found 2
				5							2024-11-25 06:02:48 128 192.168.1.234
											2024-11-25 06:02:48 129 Executing
											2024-11-25 06:02:48 632 Search completed, found
											_
4											
State: Search com	onleted found 1 d	evices in total								P	

The software will automatically create the project, as shown in the following figure.

IO Config								-	σ	\times
File Tool Option Help										
🔍 New Project 📄 📙 Save All(Ctrl+S) 🗮 🍕	👔 📿 Sea	irch Device Devi	ice Update	0						
Project 👻 🖛	Module I	nformation Process	Data Confi	g Params Address M	ap Installation Information					Ŧ
▲ 🗥 NewProject	Name	Project Value				Online Va	lue			
A 😪 B2341 Programmable IO(192.168.0.										
1:BT-623F(8DI&8DO 24Vdc)										
2:BT-3238(8AI 0~20ma Input)										
Properties •										
Tippenes										
	Logs									• 4
	·	DATE	TIME	SOURCE	MESSAGE					
	🔵 Info	2024-11-26	11:18:27 /	BT-623F(8DI&8DO	Upload completed					
	🔵 Info	2024-11-26	11:18:27 /	BT-3238(8AI 0~20r	Start uploading					_
	🔵 Info	2024-11-26	11:18:27 /	BT-3238(8AI 0~20r	Upload completed					
	Info	2024-11-26	11:18:27 /	B2341 Programma	Upload completed			_	_	_
	🕒 Info	2024-11-26	11:18:27 /	NewProject	Commboard 82341 Programmable IO has been	created!				Ţ
										- F -

Then modify the parameters of the module.

IO Config		-	0	×							
File Tool Option Help											
🔍 New Project 📄 🔚 Save All(Ctrl+S) 层 🏟	🔾 Search Device 🕖 Devic	ice Update 🚺 🌓 📰 💼 🕞 📴 🕑 💽									
Project 🔷 🤻	Module Information Process E	Data Config Params Address Map Installation Information		Ŧ							
A NewProject	Module Config Parameters										
B2341 Programmable IO(192,168.0.15)	Name	Name Param Value									
1:BT-623F(8DI&8DO 24Vdc)	Input Filtering Time(ms)	10									
2:BT-3238(8AI 0~20ma Input)	Input Holding Time(ms)	Disable 👻									
	Fault Action for Output(CH 0)	1) Hold Last Output Value 🔹									
	Fault Action for Output(CH 1))) Hold Last Output Value 💌									
	Fault Action for Output(CH 2)	t) Hold Last Output Value 💌									
	Fault Action for Output(CH 3)	i) Hold Last Output Value 🔻									
	Fault Action for Output(CH 4)	i) Hold Last Output Value 🔻									
	Fault Action for Output(CH 5)	i) Hold Last Output Value 💌									
	Fault Action for Output(CH 6)	i) Hold Last Output Value 💌									
	Fault Action for Output(CH 7)	1) Hold Last Output Value 💌									
	Fault Value for Output(CH 0)	0									
A P	Fault Value for Output(CH 1)	0									
Name BT-623F(8DI&8DO 24V	Fault Value for Output(CH 2)	0									
Module ID 0x3000623F	Fault Value for Output(CH 3)	0									
Description 8 Digital Input ,DC 24	Fault Value for Output(CH 4)	0									
Submodule Number 0	Fault Value for Output(CH 5)	0									
	Fault Value for Output(CH 6)	0									
	Fault Value for Output(CH 7)	0									
	Logs			т							
	* DATE	TIME SOURCE MESSAGE									
	Info 2024-11-25	55640 PL BT-3238/BAI 0~20r Start uploading									
	Info 2024-11-25	5:56:40 PI BT-3238(8AI 0~20r Upload completed		- 11							
	Info 2024-11-25	5:56:40 PI B2341 Programmal Upload completed									
	🔵 Info 2024-11-25	5:56:40 PI NewProject Commissional 82:341 Programmable IO has been created!									
	•			×							

After the setup is complete, right-click the B2341 device in the project directory bar – "Download Configuration". The configuration parameters of the B2341 device and I/O modules can be modified.

IO Config								- 0	×
File Tool Opt	ion Help								
🔍 New Project 🧁	Save All(Ctrl+S)	6	🛛 📿 Search 🛙	Device 🕗 De	vice Update	0 0 1 8 0	Online 🕞 Upload Params 🛃 Download Params 🍵 🌄 🕞 💽		
Project		• 9	Module Inform	mation Proces	s Data Config	g Params Address N	fap Installation Information		Ŧ
NewProject			Adaptor Conf	ig Parameters					
A B2341 Program	mable IO(192 168 6		Name		Param V	alue			
	111111111111111111111111111111111111111	88 N	Aodule Mana	iger Da	ta Configurat	tion Software 👻			
1:B1-623F(8D)	x8DO 24Vdc)	<u>.</u>	Online	low					
2:BT-3238(8AI	0~20ma Input)	ดเ	Jpload Param	ns n					
		rla r	ownload Par	rams	aram value				
		÷		AC	: 1D : DF : 83	5:23:41			
			Pelete	19	2.168.0.1	5			
			lename	25	5.255.255.0	D			
		🖸 (Copy(Ctrl+C)	19	2.168.0.1	1			
		🗐 P	aste(Ctrl+V)	1					
		⊙ ι	Jp						
		— О г)own						
			vport Man						
4			xport map						
Properties		¥ #	xport docum	nent					
Name	B2341 Programmal	ble I							
Module ID	0x300B2341								
Description	Programmable IO								
Device version	V1.00	_							
Module Number	2	_							
Interface	Ethernet	-							
Device IP	192.168.0.15	_							
COM	COM1	-	1						
Kefresh Period	200	-	+	DATE	TIME	SOURCE	MESSAGE		4 •
			Info	2024-11-25	5:56:40 PI	BT-623F(8DI&8DO	Upload completed		
		_	Info	2024-11-25	5:56:40 PI	BT-3238(8AI 0~20			
			Info	2024-11-25	5:56:40 PI	BT-3238(8AI 0~20			- 1
			Info	2024-11-25	5:56:40 PI	B2341 Programma	Upload completed		- 1
			🕒 Info	2024-11-25	5:56:40 PI	NewProject	Commboard 82341 Programmable IO has been created!		
			4						Ť

After all module parameters are modified, click the shortcut key 'Save All' or press the keyboard shortcut 'Ctrl +S' to save the entire configuration project file.

IO Config										- 0 ×
File Tool Op	tion Help									
New Project	Save All(Ctrl+S) 🔜 👩		Search Device	Device Up	odate 🚺 🚺 🔡 💌 🔿	Online 🕢 Upload Params 🙌 Dov	vnload Params 🛍 📘		F -10	
Project		Modu	ule Information	Process Data	Config Params Address M	lap Installation Information				*
NewProject		Adap	otor Config Paran	neters						
4 R2241 Brogram	amable IO(102 169 0 15)	Na	me	Pa	ram Value					
	10:000 24(4)	Sour	rce of Configurati	ion Data Cor	nfiguration Software 🔻					
1.B1-023F(0D	1000DO 24VUC)	Field	Rus Config Parag	neters						
P[]]2:B1-3238(8A	I 0~20ma Input)	Na	me	Param \	/alue		_	_	_	
		MAG	Salact project	file	lande				×	
		ID A	Jeneci projeci	inte					~	
		Net	$\leftarrow \rightarrow \vee$	↑ 📒 -	ODOT > 6 program > IO	Config ~ C	在 IO Config 中搜索		م ر	
		Net	组织• 新	■文件夹				≣ •	0	
		OLE			名称	修改日期	类型			
		-				10 de localdo de Altre articlateria				
			> WPSZCE	ĸ		没有与按案宗件匹能的观。				
			✓ ■ 此电脑							
			> 🐸 Windo	ws-SSC						
4) - F		> 📫 Data (D:)						
Properties			> 'n 网络							
Name	B2341 Programmable I									
Description	Programmable IO		文件名	(N): NewPro	oject				~	
Device version	V1.00		保存类型	2(T): apj(*.ap	j)				~	
Module Number	2									
Interface	Ethernet 💌									
Device IP	192.168.0.15		▲ 開催文件車				保存(S)	取消		
СОМ	COM1 •		** INIAATTA						-6	
Refresh Period	200	Logs	DATE	TIN	AE SOURCE	MESSAGE				*1
			Info 2024-	11-25 5:56	6:40 PL BT-623E(8DI&8DO	Upload completed				
			Info 2024-	11-25 5:56	5:40 PI BT-3238(8AI 0~20r					
			Info 2024-	11-25 5:56	6:40 PI BT-3238(8AI 0-20r	Upload completed				
			Info 2024-	11-25 5:56	6:40 PI B2341 Programma	Upload completed				
			info 2024-	11-25 5:56	6:40 PI NewProject	Commboard 82341 Programmabl	IO has been created!			
		4								· · · · · · · · · · · · · · · · · · ·

3.3.5 Online Debugging

First, search for the device and upload the project, right-click on the B2341 device,

and select Online. The I/O module real-time data can be monitored in the "Process

Data" interface of the main window.

For example, the BT-623F module in slot 1 can be used to view the real-time changes

of I/O points.

📶 IO Config					- o ×
File Tool Option Help					
🔍 New Project 📄 🔚 Save All(Ctrl+S) 🗮 🤅	👔 🔍 Search Device 🛄 Device U	pdate 🚺 🕕	🔁 🕒		
Project 💌 🖛 🖡	Module Information Process Data	Config Params A	ddress Map Inst	allation Information	Ψ
A NewProject	IO Input:				
A 🌊 [Online] B2341 Programmable IO(19	NAME	TYPE	ONLINE VALUE		
1:BT-623F(8DI8/8DO 24Vdc)	 Digital Input Data(CH 0-7) 	Unsigned8	0x00		
2:BT-3238/8AL0~20ma (nput)	IO Output:				
Bree erecter to remember	NAME	TYPE	ONLINE VALUE	PROJECT VALUE	
	 Digital Output Data(CH 0_ 	Unsigned8	0x03	0x00	
	Digital Output Data(CH	Bit	1	0	
	Digital Output Data(CH	Bit	1	0	
	Digital Output Data(CH	Bit	0	0	
	Digital Output Data(CH	Bit	0	0	
	Digital Output Data(CH	Bit	0	0	
	Digital Output Data(CH	Bit	0	0	
	Digital Output Data(CH	Bit	0	0	
	Digital Output Data(CH	Bit	0	0	
•					
Properties • • •					
Name B1-623F(8DI88DO 24V					
Description R Digital Input DC 24					
Submodule Number 0					
	Logs				•••••••••••••••••••••••••••••••••••••••
	* DATE TI	ME SOURCE	MESS	AGE	^
	Info 2024-11-26 11: 0 Info 2024-11-26 11:	10.27 / B1-3230(0	ALO-201 Start t		
	Info 2024-11-26 11: 0 Info 2024-11-26 11:	:18:27 / B2341 Pro	grammal Uploa		
	Info 2024-11-26 11:	18:27 / NewProjec	t Comn		
	🔵 info 2024-11-26 11:	:20:40 / [Online]	B2341 P Online	2	
	4				, Ŧ

Note: For digital input modules, it can right-click on the module and manually add the

'Counting Submodule'. After the addition is complete, please download the

configuration again.

3.3.6 Device Firmware Upgrade

Open the IO-Config configuration software, click Search for Devices Q Search Device,

and follow the steps shown below.



In the pop-up interface, set the upgrade file, select the interface and set 'Ethernet', then 'Read Device Information', check the devices to be upgraded, set 'Auto Jump', and then click 'Start Upgrade' and wait for the upgrade to complete.

						Device Infr								
Config To Update						Slot Num	Namo	Medule ID	Hardware Num	Hardware Version	E offware Version	Software Date	IAD Version	IAR Date
irmware:	D:\ODOT\1 中:	c-手册\PLC\B2341\i	₽备描述文件\B2341-	APP-V1.0		SIGCINUM	Name	Wodule ID	Hardware Num	Hardware version	1 Soltware version	Software Date	DAP VEISION	DAF Date
nterface	Ethernet					00	B2341 Programmable IO	0x300B2341	LDBLD202305V141A-B2341	V1.41	11.01-A	2024/10/10	V1.00	2024.09.10 A
OM	COM				- \4	01	BT-623F(8DI&8DO 24Vdc)	0x3000623F	LDBLD202207V200-T623F	V2.00	V2.03	2023/10/24	V2.02	2022.05.23
	COMIT					02	BT-3238(8AI 0~20ma Input)	0x30003238	LDBLD202206V200-T3238	V2.00	V2.02	2022/12/09	V2.02	2022.05.23
aud Rate	2000000				·	\backslash								
evice IP	192.168.0.	15			- 1									
utomatic Skip(to APP)						📶 Select l	Jpdated File					×		
Read Info Expor	t Info Sta	rt Stop	Run APP	Advance	d	$\leftarrow \rightarrow$		册 > PLC > E	32341 > 设备描述文件	~ で 在	设备描述文件 中搜索	Q		
341-APP-V1.01-2024	010.ofd	4	5			组织 -	新建文件夹				≣ ·	• •		
I.Propreties					4	📒 Ва	341 名称		^	修改日期	类型			
Hardware Num	LDBLD202	05V141A-B2341				1 88	rnimeu 🔪 📁 code	sys		2024/11/6 10:08	文件夹			
Hardware Version	V1.41					- 10		nfia		2024/11/6 10:08	立任本			
Software Date	2024/10/1				- 11			ing		2024)11/010.00	AITA			
Software Version	V1.01				- 11	> 🔷 W	PS云像	1-APP-V1.01-	20241010	2024/11/6 13:58	OFD 文件	:		
Module ID	0x300B234	1			- 11							_		
Name	B2341 Pro	rammable IO			- 11	~ ■此	电脑							
III.Siot					-11	> 🖬	Windows-SSD							
All					- 11									
0#(Adapter)	<u> </u>				- 11	> ==	Data (D:)							
1#(Module)					- 11	> 🐂 🖂	络							
2#(Module)					- 11									
A#(Module)					- 11									
5#(Module)							文件名(N): R234	1-APP-V1 01-3	20241010	 ofd 	(* ofd)	~		
6#(Module)							AT 11.1. 02.14				1000	and take		
7#(Module)											1J#(0)	\$CIPI		
8#(Module)								_				4		
9#(Module)														
10#(Module)														
11#(Module)						2024-	11-26 11:23:26 389 Read m	odule 1 firmw	are information					
12#(Module)						2024-	1-26 11:23:26 401 Read m	odule 2 firmw	are information					
13#(Module)						2024	11-26 11-23-26 407 Road in	fo completed						
14#(Module)						2024-	1-20 (1.25.20 HUY Read Int	o compieted	4					
15#(Module)						2024-	1-26 11:24:02 724 Import	file succeeded						
16#(Module)						2024-	1-26 11:24:02 769 load:B2	341-APP-V1.0	1-20241010.ofd					
a water and show														

The above is the process of firmware upgrade, and the I/O module can be upgraded

using this method.

3.3.7 Data Export

Once the project is set up, then right-click on 'B2341 Device' and select 'Export

Address Table'.

IO Config									-	0	×
File Tool Op	tion Help										
New Project	Save All(Ctrl+S)		Search Device	Device L	Indate 👩	n i 📰 🕞 o	Online 🖪 Ur	ninad Params 🔂 Downinad Params 🏦 🕞 🕞 🕞			
Project			Indule Information	Process Data	Config Pa	rams Address M	an Installatio				
NewProject		N	IAME		TYPE	ONLINE	ALUE	PROJECT VALUE			
NewFloject											
B2341 Program	10(192.168.	1 R N	lodule Manage	r							
1:BT-623F(8DI	&8DO 24Vdc)	• o	nline								
2:BT-3238(8AI	0~20ma Input)		pload Parame								
			pioau rarants								
			ownload Param	is							
			elete								
		🗖 R	ename								
		⊡ 0	opy(Ctrl+C)								
		🗐 P.	aste(Ctrl+V)								
		ο υ	p								
			0.80								
			own								
4		E D	крогт мар								
Description		S S	port document	t							
Name	R2241 Programma	ble I									
Module ID	0v30082341	orer									
Description	Programmable IO										
Device version	V1.00										
Module Number	2										
Interface	Ethernet	•									
Device IP	192.168.0.15										
COM	COM1	-									
Refresh Period	200	L	ogs								• û
			DA	TE TI	ME SO	URCE	MESSAGE				
			into 202	24-11-26 11	:18:277 B1	-3238(8AI 0~20r					
			linfo 202	24-11-26 11	18:277 B2	341 Programma					
			lofo 202	24-11-20 11	-20:40 / Tr	Online 1 822/1 P					- 11
			202	24-11-26 11	23.24 . 82	341 Programma	Offlinet				
		10	207	2411-20 11	~J.C47 DZ	541 Hogramma	Committee .				
											- F - []

In the pop-up window, select the file format, output file directory, and file name, and then click Confirm.

Config				_		×
Format Config						
🖌 .txt file	✓ View .txt file	.xls file	View	/ .xls file		
Path Config						
Folder Path:	D:\ODOT\6 program\IO Cont	fig				
File Name:	B2341_Programmable_IO(19)	2.168.0.15)_Addres	s_Map_20	24-11-26	5_1127	736
				ОК	Ca	ncel
The following	is an example of the gener	ated file:				
B2341_Programmable_IC	(192.168.0.4)_地址 红绿灯程序.txt B	2341_Programmable_IO(192.168.0 ×	+		-	
文件 编辑 查看						ŝ
1# BT-623F(8DI&8DO 2/	(dc)					

1 # BT-623F(8DR&BO 24Vdc) RegisterArea:Input Status(1x) start address:0x0000000(Hex) 0(Bin) Data Name:Digital Input Data(CH 1) RegisterArea:Input Status(1x) start address:0x0000001(Hex) 1(Bin) Data Name:Digital Input Data(CH 2) RegisterArea:Input Status(1x) start address:0x00000001(Hex) 3(Bin) Data Name:Digital Input Data(CH 5) RegisterArea:Input Status(1x) start address:0x00000005(Hex) 3(Bin) Data Name:Digital Input Data(CH 6) RegisterArea:Input Status(1x) start address:0x0000000(Hex) 6(Bin) Data Name:Digital Input Data(CH 7) RegisterArea:Input Status(1x) start address:0x0000000(Hex) 6(Bin) Data Name:Digital Output Data(CH 1) RegisterArea:Col Status(0x) start address:0x0000000(Hex) 6(Bin) Data Name:Digital Output Data(CH 1) RegisterArea:Col Status(0x) start address:0x0000000(Hex) 6(Bin) Data Name:Digital Output Data(CH 1) RegisterArea:Col Status(0x) start address:0x00000000(Hex) 8(Bin) Data Name:Digital Output Data(CH 4) RegisterArea:Col Status(0x) start address:0x00000000(Hex) 8(Bin) Data Name:Digital Output Data(CH 5) RegisterArea:Col Status(0x) start address:0x0000000(Hex) 8(Bin) Data Name:Digital Output Data(CH 5)			
Data Name:Digital Input Data(CH 5)RegisterArea:Input Status(1x)start address:0x0000005(Hex)5(Bin)Data Name:Digital Input Data(CH 7)RegisterArea:Input Status(1x)start address:0x00000005(Hex)6(Bin)Data Name:Digital Output Data(CH 7)RegisterArea:Input Status(1x)start address:0x00000007(Hex)7(Bin)Data Name:Digital Output Data(CH 1)RegisterArea:Coil Status(0x)start address:0x00000007(Hex)0(Bin)Data Name:Digital Output Data(CH 2)RegisterArea:Coil Status(0x)start address:0x00000007(Hex)1(Bin)Data Name:Digital Output Data(CH 2)RegisterArea:Coil Status(0x)start address:0x00000002(Hex)3(Bin)Data Name:Digital Output Data(CH 3)RegisterArea:Coil Status(0x)start address:0x00000005(Hex)3(Bin)Data Name:Digital Output Data(CH 5)RegisterArea:Coil Status(0x)start address:0x00000005(Hex)6(Bin)Data Name:Digital Output Data(CH 6)RegisterArea:Coil Status(0x)start address:0x00000005(Hex)6(Bin)Data Name:Digital Output Data(CH 7)RegisterArea:Coil Status(0x)start address:0x00000005(Hex)6(Bin)Data Name:Digital Output Data(CH 7)RegisterArea:Coil Status(0x)start address:0x00000000(Hex)0(Bin)2# BT-3238(8AI 0~20ma Input)RegisterArea:Input Registers(3x)start address:0x00000000(Hex)0(Bin)Data Name:Analog Input Data(CH 1)RegisterArea:Input Registers(3x)start address:0x00000000(Hex)0(Bin)Data Name:Analog Input Data(CH 3)RegisterArea:Input Registers(3x)start address:0x00000000(Hex)3(Bin)Data Name:Analog Input Dat	1# BT-623F(8D1&8DO 24Vdc) Data Name:Digital Input Data(CH 0) Data Name:Digital Input Data(CH 1) Data Name:Digital Input Data(CH 2) Data Name:Digital Input Data(CH 3) Data Name:Digital Input Data(CH 4)	RegisterArea:Input Status(1x) RegisterArea:Input Status(1x) RegisterArea:Input Status(1x) RegisterArea:Input Status(1x) RegisterArea:Input Status(1x)	start address:0x00000000(Hex) 0(Bin) start address:0x0000001(Hex) 1(Bin) start address:0x00000002(Hex) 2(Bin) start address:0x00000003(Hex) 3(Bin) start address:0x00000004(Hex) 4(Bin)
Data Name:Digital Input Data(CH 6)RegisterArea:Input Status(1x)start address:0x0000000(Hex)6(Bin)Data Name:Digital Input Data(CH 7)RegisterArea:Coil Status(0x)start address:0x00000007(Hex)0(Bin)Data Name:Digital Output Data(CH 1)RegisterArea:Coil Status(0x)start address:0x00000000(Hex)0(Bin)Data Name:Digital Output Data(CH 2)RegisterArea:Coil Status(0x)start address:0x00000002(Hex)2(Bin)Data Name:Digital Output Data(CH 3)RegisterArea:Coil Status(0x)start address:0x00000003(Hex)3(Bin)Data Name:Digital Output Data(CH 4)RegisterArea:Coil Status(0x)start address:0x00000005(Hex)5(Bin)Data Name:Digital Output Data(CH 5)RegisterArea:Coil Status(0x)start address:0x00000005(Hex)6(Bin)Data Name:Digital Output Data(CH 6)RegisterArea:Coil Status(0x)start address:0x00000005(Hex)6(Bin)Data Name:Digital Output Data(CH 7)RegisterArea:Coil Status(0x)start address:0x00000005(Hex)6(Bin)Data Name:Digital Output Data(CH 7)RegisterArea:Coil Status(0x)start address:0x00000000(Hex)0(Bin)Data Name:Analog Input Data(CH 1)RegisterArea:Input Registers(3x)start address:0x00000000(Hex)0(Bin)Data Name:Analog Input Data(CH 2)RegisterArea:Input Registers(3x)start address:0x00000000(Hex)3(Bin)Data Name:Analog Input Data(CH 3)RegisterArea:Input Registers(3x)start address:0x00000000(Hex)3(Bin)Data Name:Analog Input Data(CH 4)RegisterArea:Input Registers(3x)start address:0x00000000(Hex)3(Bin)Data Name:Analog Inpu	Data Name:Digital Input Data(CH 5)	RegisterArea:Input Status(1x)	start address:0x0000005(Hex) 5(Bin)
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1:B1-623F(6D)	x6DO 24VdC)	🖭 Onl	ine												
P2:BT-3238(8AI	0~20ma Input)	🕣 Upl	oad Params												
			voload Para	ms											
		A D-1													
		Uen Den	ete												
		C Ren	iame												
		🔁 Cop	oy(Ctrl+C)												
		Pas	te(Ctrl+V)												
		📀 Up													
		 Dov 	wn												
		Exp	ort Map												
4		Exp	ort docume	nt											
Properties		• exp	ore docume												
Name	B2341 Program	mable I													
Module ID	0x300B2341														
Description	Programmable	10													
Module Number	2														
Interface	Ethernet	•													
Device IP	192.168.0.1	5													
СОМ	COM1														
Refresh Period	200		Logs												- ậ
			•	DATE	TIME	SOURCE	MESSAGE								-
			Info	2024-11-26	11:18:27 /	B2341 Programma	Upload com	pleted							
			Info	2024-11-26	11:18:27 /	NewProject			as been created!						
			Info	2024-11-26	11:20:40 /	[Online] B2341 P	Online								- al.
			Into	2024-11-26	11:23:24 /	B2341 Programma	Offline!		C-102241 D-1-1-1		171 Addama Maria				_
			-mo	2024-11-26	11:28:327	B2341 Programma	скроп Марь		n g wasan _Program	immable_10(192.168.0	.+ 5)_Audress_ Map_	2024-11-26_112736.D			-
															- Þ

In the pop-up window, select the file format, output file directory, and file name, and then click Confirm.

🚻 Config			_	
Format Config				
\star .xls file	✓ View .xls file	.pdf file	View .pdf fi	
Path Config				
Folder Path:	D:\ODOT\6 program\IO	Config		
File Name:	B2341_Programmable_IC	D(192.168.0.15)_Do	cumentInfo_2024-11-2	26_113543
			ОК	Cancel

4 Programming Software (Codesys)

4.1 Programming Software Installation

The CODESYS V3.5.19.20 programming software can be downloaded from the CODESYS website or installed according to the software installation package provided by the company. The SP19 version is used as an example for installation and demonstration. Log in to the www.codesys.cn, then find the download section and click:



Then enter the download page, and select the appropriate installation package to download according to the configuration of the computer:



After the download is complete, double-click the installation package and follow the steps in the pop-up window:

ی	
CODESYS 64 3.5.19.0.exe	
CODESYS 64 3.5.1	9.0 - InstallShield Wizard
CODESYS 6 Install to be	4 3.5. 19.0 requires the following items to be installed on your computer. Click gin installing these requirements.
Status Requirem	lent
Pending CODESYS Pending CodeMet	; Installer erRuntime64
	•
	Install Cancel





CODESYS 64 3.5.19.0 - InstallShield Wizard	×
Very important information Please read the following information carefully.	CODESYS
COMPATIBILITY_INFORMATION CDS-37625 OPC Server: Secure password used for PLC login [[COMPATIBILITY_INFORMATION]] After updating the CODESYS OPC DA Server via the setup, the new CODESYS OPC DA Server removes plain text passwords from the configuration file at startup and stores them in the Microsoft Windows Credential Manage rinstead.	I
I have read the information I have not read the information yet InstallShield	Print
< Back Next >	Cancel





🔁 CODESYS 64 3.5.19.0 - InstallShie	ld Wizard		×
Ready to Install the Program			
The wizard is ready to begin installation			CODESYS
Click Install to begin the installation.			
If you want to review or change any of exit the wizard.	your installation	settings, click Back. Cli	ick Cancel to
InstallShield			
	< Back	Install	Cancel

4.2 Use of Codesys Software

Double-click the generated shortcut, run the Codesys programming software, and select "Tools-- Device Repository" in the menu toolbar.



In the pop-up window, click Install, select the device description file of the B2341 (including the B2341 device and the IO module), and click Open.

es .	+ # X 🖊	Start Page X							Properties •
		CODESYS V3.5 SP17			×Ì				V Filter ▼ Sortby ▼
	1	Location System Repository (C:\ProgramData\CODESYS\Devices)		~]	Edit Locations			^	Property
		Installed Device Descriptions RE String for a full text search Vendor	r <all th="" vend<=""><th>xs> ~</th><th>Install</th><th></th><th></th><th></th><th></th></all>	xs> ~	Install				
		Name Vendor Version Macelaneous	Descriptio	n	Uninstell Export				
		PLCs SoftMotion drives		Install Device Descriptio	in 🔪				×
				$\leftrightarrow \rightarrow \uparrow \uparrow$	◎ « B2341 > 设备描述	文件 > codesys	~ C	在 codesys 中搜索	م ر
				组织 * 新建文件夹		\backslash		≣ •	
			_	늘 CL	名称	\sim	修改日期	类型	大小
				5 B2341	 B2341-20230607 PicloDrv_B_Series 	devdesc 20240730.devdesc	2024/11/5 13:11 2024/11/5 13:11	SLBrowser HTM SLBrowser HTM	45 I 209
		C4374+CN8011 C4374+CN8033 E5T1022		> ● WPS云盘 > ■ 此电脑 > Windows-SSI					
			2	> 🛁 Data (D:) > 🎥 网络					_
17.		Close page after project load	COL	文件	⊨篇(N): 82341-20230607	.devdesc* *PlcIoDrv_E	_Series_202407: ~	Sercos SDDML (*.xml	

Close the device repository interface when finished.

ocation	System Repository			\sim	Edit Locations.
	(C:\ProgramData\CODESY	S\Devices)			
nstalled D	evice Descriptions				
String for	a full text search	Vendor	<all vendors=""></all>	\sim	Install
Name		Vendor			Uninstall
- 6	🚺 IO Modules(B Series)	Sichuan O	DOT Automation System Co., Ltd.		Export
(IO Modules(C Series)	Sichuan O	DOT Automation System Co., Ltd.		
🖻 💮 F	ieldbuses				
. 🖻 🔜 Н	MI devices				
: 2011					
		_			
	Device "B2341" installed to	- device repository			
- 0 D	Device "B2341" installed to いODOT\1 中文·手册\PLC\B2;	 device repository 341\设备描述文件	:\codesys\PlcIoDrv_B_Series_2024(
	Device "B2341" installed to ::\ODOT\1 中文·手册\PLC\B2 Device "IO Modules(B Serie	— device repository 341\设备描述文件 s)" installed to dev	:\codesys\PlcIoDrv_B_Series_2024(•	
	Device "B2341" installed to いODOT\1 中文·手册\PLC\B2 Device "IO Modules(B Serie	— device repository 341\设备描述文件 s)" installed to dev	:\codesys\PlcIoDrv_B_Series_2024(ice repository	-	
	Device "B2341" installed to ::\ODOT\1 中文·手册\PLC\B2 Device "IO Modules(B Serie	— device repository 341\设备描述文件 s)" installed to dev	:\codesys\PlcIoDrv_B_Series_2024(ice repository		Details
	● Device "B2341" installed to いODOT\1 中文·手册\PLC\B2 ● Device "IO Modules(B Serie	— device repository 341\设备描述文件 s)" installed to dev	:\codesys\PlcIoDrv_B_Series_2024 ice repository		Details

In the menu bar, select File - New Project, select the standard project in the pop-up window, set the project name and location, and click OK.

🛅 New Project				×
Categories	Templates			
Projects	Empty project	HMI project	Standard project	Standard project w
A project containing one device, one app	blication, and an	empty implemer	ntation for PLC_	PRG
Name B2341 2				
Location D:\ODOT\6 program\codes	ys ,	3		×
		4	ок	Cancel

7

In the pop-up window, select B2341 as the device and click OK.

Standard P	roject X	<
61	You are about to create a new standard project. This wizard will create the following objects within this project:	
	 One programmable device as specified below A program PLC_PRG in the language specified below A cyclic task which calls PLC_PRG A reference to the newest version of the Standard library currently installed. 	
	Device B2341 (Sichuan ODOT Automation System Co., Ltd.)]
	PLC_PRG in Structured Text (ST)	
	OK Cancel	

At this point, the project was established.

●B2M1project - CODEXYS File Edit View Project Build Online Debug Tools Window Help 習 ☞ 圖 圖 () ♡ ♡ ※ 陶 職 大 熱 気 着 猛 其 気 気 気 陽 () ● 音 語 Application [Device: PLC Logic] ● 鶴 切 → ■ 低 (耳 短 短 短 短 気 () ● 第 前 示 ¹ 示	- 0 × ₹4
	Properties • • • × V Fiter - Sot othe - Property 1 Description • • • • • •
Messages - Total @ error(5), 0 warring(5), 0 message(5) Lastbadis 📀 0 🔹 0 Precomple 🗸 (2)	Project user: (nobody)

The first time install Codesys and create a project for compilation, it will find a lot of missing items, the solution is to open the library manager, click "Download Missing Libraries - Select All - Download", wait for the download to complete, and compile again.

) <i>82341</i>	Add Ubrary X Delete Ubrary Properties Dearload Missing Ubraries Placeholders Placeholders Placeh	C C Y Filter * Sortby * 2+Sortorder *
Application Construction Construction Construction Software Software	Construction of the state	Property
PLC_PRG	Download missing libraries	
	Spectra 2.5.3.6 (bystem) Sector 2.5.3.6 (bystem) Sector 2.5.3.6 (bystem) Sector 2.5.3.6 (bystem) Sector 2.5.4.6 (bystem)	Is 3Master/3.5.6.0

The introduction of the Codesys software interface is shown in the figure below, and the function introduction is detailed in the "PLC Comprehensive Development Tool -CODESYS Basic Programming and Application Guide".

B2341.project* - CODESYS File Edit View Project Build Online			- 0 ×
11 m = 1 m	2008 (1005 Window Hep) 2 십 제 제 제 제 (福) (福· (집) (100 March 10 PlcC Logic) - 영 영 > = 씨 (고 역 역 역 용 아 (蒙) 문 (장)	Shortcut function bar	
		Shorteur function bui	
Devices - # X 4 X - = ③ 20 201/1 = ③ PC (copc = ③ PC (copc = ④ PC (copc = ● A (configuration = ● ● PC (copc = ● >			Properties • A X V Filter • • Sartby • Al Sortode • Property •
Device tree	Main edit area		Property
Messages - Total 0 error(s), 0 warning(s), 8 message(s)			
Library Manager	- O 0 error(s) 🕈 0 warning(s) O 0 message(s) 🗙 💥		
Description		Project Object	Position
	Message		
Messages - Total 0 error(s), 0 warning(s), 8 message	2) Last build: 🔿 0, 🕮 0. Pre-	comple 🥒 😘 Project wars for	hady) 🔘 🚳

After the project is created, right-click B2341 and select Add Device.

B2341.project* - CODESYS				- 0 ×
File Edit View Project B	Build	Online Debug Tools Window Help		₹4
🔁 📽 🖬 🚳 🗠 🗠 🕷 🖻	s ×	詩 \$18 🍓 🍊 則 刻 刻 刻 词 [] [] [] [] [] [] [] [] Application (Device: PLC Logic] • 🞯 🤍 🗉 📽 [[] 의 역 적 용 中 第 국 전 -		
Per La ver regarda a la		Control Proof Tools What Proof	μ Α Α Α Α Α Α Α Α Α Α Α Α Α Α Α Α Α Α Α	spetter • 0 X
			D	escription
Services POUs			*	T. 🚰 P 🛃 Visual
Messages - Total 0 error(s), 0 warni	ng(s)	.8 message(s)		
		Last build: 📀 0 😗 0 Prec	ompile 🧹 🧉 Project user: (nobody)	0 🗠

Find "IO Modules" in the pop-up window, select it, click Add Device, and don't need to close this page after adding.

							<i>,</i>
Action	IO_Modules_B_Series_			Indate device			
String fo	or a full text search		Vendor	<all vendors=""></all>			~
Name	e Marallanana	Vendor			Ve	ersion	Description
	IO Modules(B Series)	Sichuan OD	OT Automat	ion System Co., Lt	:d. 20.	24.7.30	Descriptions o
÷ (Fieldbuses						
Grou	up by category 🗍 Display a	Il versions (f	for experts o	nly) 🗍 Display	outdated	versions	
Grou	Name: IO Modules(8 Series) Vendor: Sichuan ODOT Autor Categories: Version: 20.24.7.30 Order Number: 4711 Description: Descriptions of	Il versions (f nation Syster the Odot IO	for experts c	eries)	outdated	versions	X
Grou	up by category Display a Name: IO Modules(8 Series) Vendor: Sichuan ODOT Autor Categories: Version: 20.24.7.30 Order Number: 4711 Description: Descriptions of d selected device as last of You can select another target	ill versions (f mation Syste the Odot IO hild of node in the	navigator w	eries)	outdated	versions	2
Grou	up by category Display a Name: IO Modules(B Series) Vendor: Sichuan ODOT Autor Categories: Version: 20.24.7.30 Order Number: 4711 Description: Descriptions of d selected device as last c You can select another target	II versions (f mation Syster the Odot IO hild of node in the	for experts of m Co., Ltd. Modules(B S	eries)	outdated	versions	Close

Select the "empty" slot, and insert the corresponding module according to the hardware configuration, and the functions of the module are listed in the selection table.

• • × • • × • • • × • • • •	Plug Device			×	Properties √ Filter • ∳ Sortby • ⊉ Sort order
Dubrary Manager EPLC_PRG (PRG) Mark Configuration	Action Action Append device O Insert device	e O Plug device 🔿 Update device		- 1	Property
B 🕸 ManTask	String for a full text search	Vendor <all vendors=""></all>		~	
B) PLC_PRG	News	Verder	Venter	Dees	
11 IO_Modules_B_Series_(IO Modules(B Ser	Indine Mar 2754	Fide as ODOT Automation Sustan Co. 114	20.24.7.20	(anth	
C <empty></empty>	1 BT-3724	Sichuan ODOT Automation System Co., Ltd.	20.24.7.30	(HKID	
< <empty></empty>	- Fil 81-3804	Schuer COOT Automation System Co., Ltd.	20.24.7.30	40.0	
C <empty></empty>	- El 87.4224	Sichuan COOT Automation System Co., Ltd.	20.24.7.30	4400	
C <empty></empty>		Sichuran COOT Automation System Co., Ltd.	20.24.7.30	340 0	
<pre></pre>	E 87-5112	Sichuan ODOT Automation System Co., Ltd.	20.24.7.30	2xEnc	
 <empty></empty> 	- FI 8T-5121	Sichuan ODOT Automation System Co., Ltd.	20.24.7.30	1xEnc	
< Empty>	- II 8T-5141	Sichuan ODOT Automation System Co., Ltd.	20.24 7 30	tyFor	
 Compty > 	- 91 BT-5312	Schular ODOT Automation System Co., Ltd.	20.24.7.30	2018	
Compty a	BT-623E	Sichuan ODOT Automation System Co., Ltd.	20,24,7,30	(801.8	
Cempty>	11 BT-FFFF	Sichuan ODOT Automation System Co., Ltd.	20.24.7.30	(Empt	
Cempty>	DL Counter Module (16C)	 Sichuan ODOT Automation System Co., Ltd. 	20,24,7,30	DICa	
Cempty>					
f Control	Group by category Display	all versions (for experts only) Display outdate	d versions		
C (Feedy)		, , , , , , , , , ,			
E (Emply)	Name: BT-623F				
C (Finity)	Categories:	smatton System Co., Ltd.	-		
C (Fenty)	Version: 20.24.7.30			5	
C (Fernity)	Order Number: 0x3000623	F		•	
L (Feedback	Description: (8DI 8DO 24W	ic)			
C (Fmpty)					
C <empty></empty>					
C <empty></empty>					
C (Empty)	Plug selected device into the sk	ıt			Description
	<empty></empty>				

Double-click the module and select I/O Mapping to view the corresponding I/O address and set the mapping relationship.

- # X /8	BT_623F X						 Properties
Device (82341)	Interface Parameters	Find	Filter Show all		- 🕂 Add FB for P	O Channel * Go to Instance	V Filter *
Application		Variable	Manning Channel	Address Type Unit	Description		Sort by
My	Interface I/O Mapping	(R. 16	Digital Topy it	96780			Z + Sort order
B PLC PRG (PRG)	tus	8-50	Digital Output	96080			Property
Task Configuration							
B S MainTask	ormation						
B) PLC_PRG							
IO_Modules_B_Series_ (IO Modules(B Ser							
BT_623F (BT-623F)							
BT_3238 (BT-3238)							
-℃ <empty></empty>							
-K <empty></empty>							
ι κ (Empty>							
-K <empty></empty>							
<pre>K <empty></empty></pre>							
-K <empty></empty>							
C <empty></empty>							
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C (Frinty)							
¢ <empty></empty>							
<pre>C <empty></empty></pre>							
K <empty></empty>							
K <empty></empty>				Benet Manalag			
K <empty></empty>				Reset mapping Alway	/supdatevariables Enable	d 1 (use bus cycle task if not used in any task) 🗸	
C <empty></empty>		🍫 = Create new variable	🍫 = Map to existing varia	ble			Duranterior
K <empty></empty>		But Outle Options					Description
1 a 1		ous cycle options					

4.3 Download & Monitor

Double-click Device (B2341), select communication settings, enter the IP address of the B2341 module (the IP address of the module can be viewed by the LCD display or IO Config software), and press Enter to activate the device.



After the device is activated, compile, download, and run the program.

- 4 × /18 BT_623F 18 BT_3238	Device x			
Device [connected] (B2341) PLC Logic Communication Settings	Scan Network Gateway + Devic	e *		
Application [run] Applications				
Backup and Restore		•		
- W Task Configuration			A A 111	
E 😏 🕸 MainTask		•	•	
B) PLC PRG		Gateway	-	
G ID_Modules_B_Series_ (IO Modules(B	G	steway-1 🗸	192.168.0.15 (active)	
	p.	Address:	Device Name:	
	loc	alhost	B2341	
- K <empty> PLC Shell</empty>	Po	rt:	Device Address:	
K <empty> Users and Groups</empty>	12	17	0301.1000.2DDC.C0A8.000F	
K <empty></empty>			Device IPAddress:	
K <empty> Access Rights</empty>			192.100.0.15	
C <empty></empty>			Target ID: 17A7 0003	
K <empty></empty>			Tanan te Tanan	
C <empty> Licensed Software Metrics</empty>			4096	
K <empty></empty>			Target Vendor:	
K <empty> Task Deployment</empty>			Sichuan Odot Automation System Co., Ltd.	
C <empty> Status</empty>			Target Version:	
- C <empty></empty>			3.5.17.10	
Compty> Information				
Compty>				
Compty /				
C (Empty)				
C (Fenty)				
C <empty></empty>				
<pre>c <empty></empty></pre>				
K <empty></empty>				
K <empty></empty>				
K <empty></empty>	Your device can be secured. Learn	more		
*				

Select the module and click I/O Mapping to view the corresponding module

parameters and set the Always Update variable to Enable 1.

- 4	× 18 BT_623F × 18 BT_3238	🕤 De	evice										
Device [connected] (82341)	MyInterface Parameters	Find			Filter Show all			- +	Add FB for IO Ch	annel_ `	Go to Instanc	e	
- O Application [run]		Variab	ole	Mapping	Channel	Address	Type	Current Value	Prepared Value	Unit	Description		
Library Manager	MyInterface I/O Mapping	8-39			Digital Input	%180		Not updated					
PLC PRG (PRG)	Status	8	*		Byte	%IB0	BYTE	0					
Task Configuration			- *		Bit0	%EX0.0	BOOL	FALSE					
🗏 😏 🥩 MainTask	Information		**		Bit1	%EX0.1	BOOL	FALSE					
PLC_PRG			- *		Bit2	%IX0.2	BOOL	FALSE					
G IO Modules B Series (IO Modules(B			- *>		Bit3	%IX0.3	BOOL	FALSE					
G BT_623F (BT-623F) /			- *		Bit4	%DX0.4	BOOL	FALSE					
BT_3238 (BT-3238)			**		Bit5	%DX0.5	BOOL	FALSE					
<pre> <empty></empty></pre>			**		Bit6	%IX0.6	BOOL	FALSE					
K <empty></empty>			- *		Bit7	%EX0.7	BOOL	FALSE					
<pre>C <empty></empty></pre>		8-50			Digital Output	%Q80		Not updated					
- K <empty></empty>		8-	5 0		Byte	%Q80	BYTE	58					
- K <empty></empty>			- **		Bit0	%QX0.0	BOOL	FALSE					
<pre>C <empty></empty></pre>			* ø		Bit1	%QX0.1	BOOL	TRUE					
C <empty></empty>			- **		Bit2	%QX0.2	BOOL	FALSE					
K <empty></empty>			**		Bit3	%QX0.3	BOOL	TRUE					
-K <empty></empty>			- 14		Bit4	%QX0.4	BOOL	TRUE					
<pre>K <empty></empty></pre>			- **		Bit5	%QX0.5	BOOL	TRUE					
<pre>K <empty></empty></pre>			- **		Bit6	%QX0.6	BOOL	FALSE					
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-K <empty> -K <empty></empty></empty>													
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K <empty></empty>								Denet Mann	an Alumunud	-			
<pre>-K <empty></empty></pre>		_						Reset Mapp	Anways upd	eve variable	es Enabled 1 (use	I DUS CYCIE TASK IT NOT USED	ain any
-K <empty></empty>		🍫 - Cr	reate new variable	🍞 = Ma	to existing varia	ible							
<pre>C <empty></empty></pre>		Pre Or	de Ontions										
− Ľ <empty></empty>		Bus cyc	de task like na	rent hus cycle set	ing v	Recreate requi	ired tasks						
Complexity (Emplexity)			and he										

4.4 Modbus TCP Client

Topology



Hardware configuration: B2341+BT-623F+BT-3238; BN-8031+BT-221F+BT-

623F+BT-124F+BT-3714;

First, open the Codesys software and click New Project.

New Project						X
Categories	Templates					
Projects	empty project	t HMI pro	ject S	itandard project	Standard project w	
A project containing one device, one app	lication, and a	n empty imp	lementatio	on for PLC	PRG	
Name B2341 Modbus 4						
Location D:\ODOT\6 program\codes	ys	3			~].	
		4		ж	Cancel	

Then select the B2341 device, if can't find the device, refer to the installation device description file, and click OK.

Standard F	Project	X
	You are about to create a new standard project. This wizard will create the following objects within this project: - One programmable device as specified below - A program PLC_PRG in the language specified below - A cyclic task which calls PLC_PRG - A reference to the newest version of the Standard library currently installed.	
	Device B2341 (Sichuan ODOT Automation System Co., Ltd.)	\sim
	PLC_PRG in Structured Text (ST)	~
	OK Cancel	

After the project is created, right-click B2341 and select Add Device.

B2341 Modbus.project - CODES1	rs				-	o ×
File Edit View Project	Bu	id Online Debug Tools Wir ※ IAN 2:5 🍋 2:4 배 개 개 개	Indow Help	위 석 선 유 (호) 등 (종) 등 (종)		₹4
Devices		- # X			Properties	- a x
B2341 Modbus	_	•			🏾 🖓 Filter 🔹 👫 Sort by 🔹 🛓	Sort order 🔹
B Device (82341)	J _X	Cut			Property Val	ue
PLC Logic		Сору				
Application		Paste				
PLC_PRG (PRG	×	Delete				
😑 💹 Task Configura	-	Properties				
🖻 🥩 MainTask	***	Add Object				
- @ PLC_F	6	Add Folder				
		Add Device				
		Update Device				
	Ľĩ,	Edit Object				
		Edit Object With				
		Edit IO mapping				
		Import mappings from CSV				
		Export mappings to CSV				
	1	Online Config Mode	-			
		Enable SoftMotion				
		Reset Origin Device [Device]				
		Simulation				
					Description	
Sevices POUs					noperties 🗃	Visualization Toolbox
Messages - Total 0 error(s), 0 w	arnin	(s), 0 message(s)				
				Last build: 🔕 0 😗 0 Precompile 🗸 👫	Project user: (nobody)	Ø 🙆

In the pop-up window, find "IO Modules (B Series)", select it, click Add Device, and you don't need to close this page after adding.

ane [D_Modules_B_Series	Add Device					×
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Select the "empty" slot, and insert the corresponding module according to the

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Double-click the module and select I/O Mapping to view the corresponding I/O address, set the mapping, and set the Always Update variable to enable 1 (if not used in any task, use the bus periodic task).

	- 4 X	BT_623F X										 Properties 		- 4
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Right-click B2341, select Add Device, select "Ethernet Adapter—Ethernet", and click Add Device.

ace Parameters and Add ace I/O Mapping Name Action App Storing Storing	Device Ethernet Dend device () Insert devi			×	r IO Channel	Property	by ▼ 2↓Sort order ▼ Value
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Right-click Ethernet, select Add device, select "Modbus TCP Master-Modbus TCP

Master", click Add device.

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Right-click Modbus TCP Master, select Add Device, select "Modbus TCP Slave— Modbus TCP Slave", click Add device.

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After the device is added, double-click Device(B2341), select "General" on the main interface on the right, enter the IP address of the B2341 module. Press Enter to activate the device.

Porce • • • • • • • • • • • • • • • • • • •	● B2341 Modbus,project* - CODESYS File Edit View Project Build Online	Debug Tools Window Help 1월 1월 1	같 레 Application [Device: PLC Logic] • 역 여 → 표 역 [[3 억 석 석 석 영 4 종 4 종 4 주	-	0 X T 4
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Double-click Ethernet, select General, and set the IP address of the module, The IP address of the module can be viewed by the IO Config software or on the LCD display.
Devices 👻 🕈	X B BT_623F Device	Ethernet X Modbus_TCP_Slave	
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Double click the Modbus TCP Master, select General, set the Modbus TCP response

timeout period, socket timeout period, and select the automatic reconnection function.

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idea Image: Control (B234) Image: Cont	B #5,638 B Bevice Ceneral Modula TCPMaster V/O Mapping Modula TCPMaster IEC Objects Modula TCPMaster Parameters Log Setus Jaformation	Image: Second Top Same Image: Second	MODBUS	Property * \$ Sortby * \$ list rider * Property Value Description
				Description

Double click Modbus TCP Slave, select General, set the IP address of the slave BN-

8031 module 192.168.0.100, response time, and port number.

	Device	B Ethernet Modbus_TCP_Slave X Modbus_TCP_Master		
8294 Abdue	Eneral Mobus Save Dannel Hobus Save Dannel Hobus TCPSave IEC Objects Satus Deformation	Method TCP Size / P Addres_ (TC) - Save X (T) Redow_ (C') / Save Y Size / P Address 102 Port 502	MODBUS	v Properties v\$ Sort by - ĝi Sort order - V Piter - v\$ Sort by - ĝi Sort order - Property Value
Avers 10 POUs	_			Description

The parameters of the slave device BN-8031 module can be viewed in the IO Config software. Select BN-8031 and click the address table to view the address mapping relationship of the I/O module mounted later.

		11-4-20-20 2-40		AND DESCRIPTION OF TAXABLE	am .				
L程 New Decised	······································	基本信息 10月 名称	BOUE BUILING	Server Screet	Input Bit(1xxxx)	Output Bit(0xxxx)	Input Word(3xxxx)	Output Word(4xxx)	
NewProject		1# RT-2	21F(16DOL 24V)	c Sink-TTL)					
BN-8031 Modb	ous-TCP Adaptor(192.168.			c, sink truj		0.0000000			
1:BT-221F(16D	OOL,24Vdc,Sink-TTL)		((CH 0)			0x0000000			
2:BT-623F(8DI	&8DO 24Vdc)	9Xテ連帯団団 第4世界目的14/4	(CH I)			0x0000001			
3:BT-124F(16D	I Sink Or Source)	欸子重制击任 約/20月10日10月	J(CH 2)			0x0000002			
4:BT-3714(4RT	D PT100 Input)	(○) 分子単相面信 (○) 小田(わ)(○)				0x0000003			
-		欸子車相出信 粉字目除山//	(CH E)			0+00000004			
		★ ★ 本 二 本 十 二 年 (出 生 (出 生) (出 生) (二 ()) () ()) () ()) ()) () ()) ()) ()) ()) ()) ()) () ()) ()) ()) ())) ())) ())) ()))) ())))) ())))))) ()))))))))))))	(CH 6)			0-00000005			
		数子風利の世				0x0000000			
		安大子 単利山市				0+00000007			
		秋子風神山は				0x0000008			
		数字母给出信	(CH 3)			0×0000000			
		数字量输出值	(CH 11)			0x0000000A			
		数字量输出语	(CH 12)			0x00000000			
	• • •	約字量給中得	(CH 13)			0x00000000			
E	••••••••••••••••••••••••••••••••••••••	教学景绘中位	(CH 14)			0x0000000E			
莫块名称	BN-8031 Modbus-TCP	80/2-40-40-40	(CH 15)			0×0000000E			
莫块号	0x30008031	SX-7-ALMICLIC	(crrrb)			0x0000000			
戦失描述	Modbus-TCP从站适配器	2# BT-6	23F(8DI&8DO 24	Vdc)					i i i i i i i i i i i i i i i i i i i
《會版本 批十个数	4	数字量输入り	(CH 0)		0x00000000				
印选择	以太网 •	数字量输入状	(态(CH 1)		0x00000001				
备IP地址	192,168, 0,100	粉空晶绘入分	(たり)		0-0000002				
08	COM1 *								号出地址表
生线刷新用期	200	信息输出							
		•	日期	时间	来源	消息			
		🔵 Info	2024-11-21	11:39:59 /	BT-124F(16DI Sink	上传完成			
		🔵 Info	2024-11-21	11:39:59 /	BT-3714(4RTD PT1	开始上传			
		🔵 Info	2024-11-21	11:39:59 /	BT-3714(4RTD PT1	上传完成			
		🔵 Info	2024-11-21	11:39:59 /	BN-8031 Modbus-	上传完成			
		🔵 Info	2024-11-21	11:39:59 /	NewProject		CP Adaptor已创建成功!		

Double click Modbus TCP Slave, select Modbus slave channel, click Add Channel, set parameters such as the channel access type and length, and click OK after the configuration is complete.

● B2341 Modbus.project* - CODESYS File Edit View Project Build Online [1] 29 24 [1] 44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Debug Tools Window Help 1 1실 제 11 개 12 대급 111 - [(1월) Application (Device: PLC Logic) • 여 여행 : 🖕 💘 (전 약고 수요 * 3 중 수 第6 第7 주/	- 0 × T 4
Devices - 4 X	BT_623F M Device	Ethernet Modbus_TCP_Slave X Modbus_TCP_Master	▼ Properties ▼ ₽ X
B2341 Modbus B2341 Modbus G Device (82341) G Device (82	General Modbus Slave Channel	Name Access Type Trigger READ Offset Length Error Handling WRITE Offset Length Comment	V Filter + IS Sort by + 22↓Sort order + Property Value
Litrary Menager Litrary Menager Tak Configuration Server, DO Nodules, Disree, DO Nodules, Disree Tormer Ethernel) Server, Do Nodules, Disree, Nodules, Disree Modules, TCP_Since (Nodule, TCP Since)	Actbus Save Joit Actbus TCPSave Parameters Modbus TCPSlave JEC Objects Satus Jaformation	Modibus Channel X Channel X Name Channel Access type Write Multiple Colls (Function Code 15) Trigger Cycle Comment # 2221 Exclude Access type Cycle time (ms) Offset Image (map last trable) WOTEF Register Image (map last trable) Offset Image (map last trable) Offset Image (map last trable) Offset Image (map last trable) Image (map last trable) Image (map last trable)	
SP Devices I(1) POLIS		Move Up Move Down Add Channel. Delete Edit	Description
Messages - Total 0 error(s), 0 warning(s), 0 message(s	1		
B2341 Modbus project* - CODESYS File Edit View Project Build Online Project Build Online Project Build Online Project Build Online	Debug Tools Window Help	西 Application [Device: PLC Logic] · 역 대 > 世代 [고 일 이 대 응 이 第 파 카	- 0 × ₹4
=] B2341 Modbus	B BT_623F []] Device	Ethernet Modbus_ICP_Slave X Modbus_TCP_Master	
Device (82341)	General	Name Access Type Trigger READ Offset Length Error Handling WRITE Offset Channel 0 Write Multiple Colls (Function Code 15) Cyclic, t#100ms 16,#01000	Length Comment 16 BT-221F Sort by *
Application	Modbus Slave Channel	Channel 1 Read Discrete Inputs (Function Code 02) Cyclc, t#100ms 15#0000 8 Keep last value	BT-623F-DI Property 1
Library Manager L	Modbus Slave Init ModbusTCPSlave Parameters	Channel 2 Witter Multiple Colle (Function Code 15) Cyclc, 1#100ms 15670030 15670030 Channel 2 Rest directer Input Flucture Code 01, Cyclc, 1#100ms 15670008 16 Keep last value Channel 4 Read Input Registers (Function Code 04) Cyclc, 1#100ms 56#0000 4 Keep last value	8 8T-528F-DC 8T-124F 8T-3714
Series_(IO Modules, B_Series_(IO Modules(B Series)	ModbusTCPSlave I/O Mapping ModbusTCPSlave IEC Objects		
Difference (Ethernet) Modbus_TCP_Master (Modbus TCP Master)	Status		
	Information		
			Description
Cevices POUs		Move Up Move Down Add Channel Delete	Edit
Messages - Total 0 error(s), 0 warning(s), 0 message(s		Last build: 📀 0 🙂 0 Precomple 🗸 🖓	Project user: (nobody) 🛛 🖉 🙆

Select "Modbus TCP Slave IO Mapping", view the mapped address of the established channel in the B2341 device and set the Always Update variable to "Enable 1".

 G. J. Maduat G. Device (02:41) G. Device (02:41)	eneral IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Find Variable • • • • • • • • • • • • •	Filter Show Owned O Owned 1 Owned 2 Owned 3 Owned 4	v all Address %Q81 %B18 %Q83 %B19 %B19 %IW11	Type ARRAY [01] OF BYTE ARRAY [09] OF BYTE ARRAY [09] OF BYTE ARRAY [03] OF WORD	def Add FB for ID Chann Unit Description Write Matgle Colls Read Dioreste Trouts Write Matgle Colls Read Dioreste Trouts Read Dioreste Trouts Read Input Registers	eL ** Go to Instance	Y Filter • ¥ Sort by • ≜‡ Sort arder • Property
B) RC Lope Application Application Active Y Manager	todbus Slave Channel todbus Slave brit todbus TCPSlave Parameters todbus TCPSlave JUO Mapping todbus TCPSlave JEC Objects Astus rformation	Variable	Mapping Channel Channel 0 Channel 1 Channel 2 Channel 3 Channel 4	Address %Q81 %GB18 %Q83 %Q83 %Q83 %Q819 %QW11	Type ARRAY [01] OF BYTE ARRAY [00] OF BYTE ARRAY [00] OF BYTE ARRAY [03] OF WORD	Unit Description Write Multiple Colls Read Dozerte Trouts Write Multiple Colls Read Dozerte Trouts Read Trout Registers		≜jisotoder • Property
Application Application Decay Manager Decay Manager Decay Manager Decay Manager Decay Reg (D) Modules (B Series) Decay Reg (D) Modules (D) Modules Decay Reg (D) Modules Decay Reg (D) Modules	todbus Slave Init lodbus TCPSlave Parameters lodbus TCPSlave (JO Mapping Rodbus TCPSlave IEC Objects Ratus Information	- 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	Channel 0 Channel 1 Channel 2 Channel 3 Channel 4	%Q81 %1818 %Q83 %1819 %1W11	ARRAY [01] OF BYTE ARRAY [00] OF BYTE ARRAY [00] OF BYTE ARRAY [01] OF BYTE ARRAY [03] OF WORD	Write Multiple Colls Read Discrete Inputs Write Multiple Colls Read Input Registers Read Input Registers		Property
Bubery Manager Barry Rev (See See See See See See See See See Se	foobus Save Init foobus TCPSIave Parameters foobus TCPSIave I/O Mapping foobus TCPSIave IEC Objects Ratus nformation	- V - V - V - V	Channel 1 Channel 2 Channel 3 Channel 4	%1B18 %Q83 %1B19 %1W11	ARRAY (00) OF BYTE ARRAY (00) OF BYTE ARRAY (01) OF BYTE ARRAY (03) OF WORD	Read Discrete Inputs Write Multiple Colls Read Discrete Inputs Read Input Registers		
R.C./MG (PRG) R.C./MG (PRG) Generation Generation	kodbusTCPSlave IVO Mapping KodbusTCPSlave IVO Mapping KodbusTCPSlave IEC Objects Ratus Information		Channel 2 Channel 3 Channel 4	%Q83 %JB19 %JW11	ARRAY [00] OF BYTE ARRAY [01] OF BYTE ARRAY [03] OF WORD	Write Multiple Colls Read Discrete Inputs Read Input Registers		
G Tark Configuration G Tark Configuration G Tark Configuration G There () MuniTark G There () D Modules () Sores () Modules () Sores () G There () Modules () Sores () G Modules () TOP Martine (Modules TOP Mart G Modules () TOP Sare (Modules TOP Mart G Modules () TOP Sare (Modules TOP Mart G	KodbusTCPSlave I/O Mapping KodbusTCPSlave I/C Objects Ratus nformation	2 9 4 9 - 9	Channel 3 Channel 4	%IB19 %IW11	ARRAY [03] OF BYTE ARRAY [03] OF WORD	Read Discrete Inputs Read Input Registers		
Sey ManTask Sey Text Task	kodbusTCPSlave I/O Mapping AodbusTCPSlave IEC Objects Ratus Information	-1 °	Channel 4	%IW11	ARRAY [03] OF WORD	Read Input Registers		
D). Modes, E. Series, (D) Models (B Series) D . Modes, E. Series, (D) Models (B Series) Modes, TCP Mether (B Modes, TCP Mether (B Modes, TCP Series (Modes, TCP Series)	NodbusTCPSlave IEC Objects Ratus							
ID-THOUSE JOERS (JOHNSHED SEEL) ID-THOUSE JOERS ID-THOUSE JOERS	Ratus							
Modus_TCP_Slave (Modus TCP Master	Ratus							
Modbus_TCP_Slave (Modbus TCP Sla	nformation							
								Description
				P	t Manalag Ale	E BALLEY		3

After the parameters are configured, compile and download the program.

	X B BT_623F Device	Ethernet	Modbus_TCP_Slave	🗙 📆 Mor	dbus_TCP_Ma	ster			
62341 Modbus	General	Find		Filter Show	all		• + 4	dd FB for IO Channel⊥ ⇒≣Go to Instance	¥ Filter ▼
PLC Logic	Modbus Slave Channel	Variable	Mapping	Channel	Address	Туре	Unit	Description	2↓Sort order ▼
C Application		8-50		Channel 0	%Q81	ARRAY [01] OF BYTE		Write Multiple Colis	Property
Library Manager	Modbus Slave Init	8-1		Channel 1	%IB18	ARRAY [00] OF BYTE		Read Discrete Inputs	
PLC_PRG (PRG)	ModbusTCPSlave Parameters	8-10		Channel 2	%Q83	ARRAY [00] OF BYTE		Write Multiple Colls	
Task Configuration				Channel 3	%IB19	ARRAY [01] OF BYTE		Read Discrete Inputs	
ManTask	ModbusTCPSlave I/O Mapping	****		Channel 4	%IW11	ARRAY [03] OF WORD		Read Input Registers	
* 10_Modules_B_Series_ (IO Modules(B Ser	es) ModbusTCPSlave IEC Objects								
Ethernet (Ethernet)	Status								
Modbus_TCP_Master (Modbus TCP M Modbus TCP_Slave (Modbus TCP)	uste Gla								
m room_rer_sare (rooms rer	Information								
									Description
									Description

After the configuration is downloaded, monitor the status of the slave device online.

ces - 4 X	BT_623F Device	Ethernet	Modbus_TCP_Slave	🗙 🗑 Modb	us_TCP_Maste	r 🗍				
B2341 Modbus	General	Find	Fi	ilter Show all			Add FB for IO	Channel_ * Go to	o Instan	ice
= M PLC Logic		Variable	Mapping	Channel	Address	Туре	Current Value	Prepared Value	Unit	Description
= O Application [run]	Modbus Slave Channel	0.50		Channel 0	%OB1	ARRAY [01] OF BYTE	Not updated			Write Multiple Coils
Library Manager	Modbus Slave Init	8.50		Channel 0[0]	%Q81	BYTE	18			Write Multiple Colis
PLC_PRG (PRG)		-10		Bit0	%QX1.0	BOOL	FALSE			0x0000
😑 🧱 Task Configuration	ModbusTCPSlave Parameters	-10		Bit1	%QX1.1	BOOL	TRUE			0x0001
😑 😏 🍪 MainTask	ModbusTCPSlave I/O Mapping	- 6		Bit2	%QX1.2	BOOL	FALSE			0x0002
B PLC_PRG	riseber er biere vernapping	- 10		Bit3	%QX1.3	BOOL	FALSE			0x0003
 ● 집 TO, Pockles, J, Serez, OD Noddel@ Ser ○ 집 Ethere Efferted ● 집 Modos, TO', Haster (Nodos TO' N ● 집 Modos, TO', Slave (Nodos TO' 	ModbusTCPSlave IEC Objects	50		Bit4	%QX1.4	BOOL	TRUE			0x0004
		- 10		Bit5	%QX1.5	BOOL	FALSE			0x0005
	Status	- * #		Bit6	%QX1.6	BOOL	FALSE			0x0006
	Information	-**		Bit7	%QX1.7	BOOL	FALSE			0x0007
		· · · · •		Channel 0[1]	%Q82	BYTE	0			Write Multiple Colls
		=- %		Channel 1	%IB18	ARRAY [00] OF BYTE				Read Discrete Inputs
		**		Channel 1[0]	%IB18	BYTE	0			Read Discrete Inputs
		- 0		Channel 2	%Q83	ARRAY [00] OF BYTE				Write Multiple Colls
		8.0		Channel 2[0]	%Q83	BYTE	42			Write Multiple Colis
		- 10		Bit0	%QX3.0	BOOL	FALSE			0x0010
		- 19		Bit1	%QX3.1	BOOL	TRUE			0x0011
				Bit2	%QX3.2	BOOL	FALSE			0x0012
				Bit3	%QX3.3	BOOL	TRUE			0x0013
				Bit4	96QX3.4	BOOL	FALSE			0x0014
		- 19		Bit5	%QX3.5	BOOL	TRUE			0x0015
				Bit6	%QX3.6	BOOL	FALSE			0x0016
				Bit7	%QX3.7	BOOL	FALSE			0x0017
		- 19		Channel 3	%IB19	ARRAY [01] OF BYTE				Read Discrete Inputs
		1 7		Channel 3[0]	%IB 19	BYTE	0			Read Discrete Inputs
				Channel 3[1]	%1820	BYTE	0			Read Discrete Inputs
				Channel 4	%W11	ARRAY [03] OF WORD	Plat updated			Read Input Registers
				Channel 4[0]	%EW11	WORD	32766			0x0000
		1.79		Channel 4111	%ftW17	WORD	32766			0v0001
		- *9 + *9 + *9 0x0015		Channel 4 Channel 4[0] Channel 4[1]	%IW11 %IW11 %IW12	ARRAY [03] OF WORD WORD WORD Reset M	Always a	updatevariables Ena	bled 1 (u	Read Input Regit 0x0000 0x0001 use bus cycle task



4.5 Modbus TCP Server

Topology



Hardware configuration: B2341+BT-623F+BT-3238; BN-8031+BT-221F+BT-623F+BT-124F+BT-3714;

When B2341 is considered a Modbus server, on the basis of the project of the Modbus TCP client, right click "Ethernet", select Add Device, add a "fieldbus—Modbus— Modbus TCP Slave Device—Modbus TCP Slave Device".

evices + + ×	🖬 BT_623F 🔂 Device 🚮	Ethernet x Modbus_TCP_Slave Modbus_TCP_Master	
CUM Madue Comparison C	General Log Backus S Batus S Ethernet Derice VO Mapping themet Device EC Objects Information	Add Davies Add Davie	v [®] Filer + * Sottar + <u>\$</u> 150tarder − Property

Next, the server is parameterized with a third-party client, which is simulated using

the "Modbus Poll" software.



Double-click "Modbus TCP Slave Device", select "General" on the main interface on the right, set the slave port number in the configuration parameters, set the length of the holding register, input register, coil, and discrete input parameters, and modify the start address of the parameter in the data type.

B2341 Modbus.project* - CODESYS		- o ×
File Edit View Project Build Online Debug Tools Windo	w Help	₹4
白 🛩 🖬 😂 🗠 🗠 3 👒 🎕 📉 👭 僑 🐴 🏠 川 🦄 🦄 🎚	h ஊ - 🖸 🛗 Application [Device: PLC Logic] - 🧐 🧐 🔸 🗉 🤻 [코 약크 약크 약크 왕 수 那 ㅠ 🏷	
levices - 4 × /8 BT_623F 💮 De	evice 👔 Ethernet 👔 Modbus_TCP_Slave 👔 Modbus_TCP_Master 🖓 ModbusTCP_Slave_Device 🗙	
B2341 Modbus	Configured Parameters	¥ Filter ▼
B- Device (82341)	Watchdog 500 * (ms)	Sort by •
= I PLC Logic Serial Gateway	Slave port 502	2 + Sort order ▼
Application Modbus TCP Slave Device I		Property
B arc apc (apc)	(%LW) Writeable	
PCC_PRG (PRG) dodbus TCP Slave Device I dodbus TCP Slave Device I dodbus TCP Slave Device I	EC Inputregisters 2 🗘 (%QW)	
	🕑 Discrete Bit Areas	
B) PLC PRG	Colls 8 😨 (%D)	
IO_Modules_B_Series_ (IO Modules(B Series) Information	Discrete Inputs 8 🗣 (%QX)	
Ethernet (Ethernet)		
Modbus_TCP_Master (Modbus TCP Maste		
ModbusTCP_Slave_Device (ModbusTCP S		
	Date Medel	
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	Startaddresses	
	Colts 0 💿	
	Discrete inputs 0	
	Holding register 0	
	Input register 0 🗢	
	Holding- and input register data areas overlay	
		Description
Devices Devices		🔶 T. 🚰 P 🖲 Visu
Messages - Total 0 error(s), 0 warning(s), 6 message(s)		

After the parameters are configured, select "Modbus TCP Slave Device I/O Mapping", the mapped addresses of just-established slave devices in the B2341 device could be viewed, set Always Update Variable to Enable 1 (Use Bus Cycle Task if not used in any task).

	BT_623F M Device	Ethernet Modbus	s_TCP_Slave 🔂 Modbus_T	CP_Master	ModbusTCP_Slave	Device	×		 Properties Properties
■ ③ B2341 Madbus	General	Find	Filter Show all		- 🕂 Ad	ld FB for	IO Channel	* Go to Instance	V Filter •
BI BI C Logic		Variable	Mapping Channel	Address	Type	Unit	Description		A Cost and to a
Application	Serial Gateway	· · · ·	Holding Registers	%IW15	ARRAY [0., 1] OF WORD	1			Z + Sort order +
Library Manager	Modbus TCP Slave Device I/O		Holding Registers[0]	%EW15	WORD				Property
PLC PRG (PRG)	Mapping	8.4	Holding Registers[1]	%IW16	WORD				
E 🔀 Task Configuration	Objects	8-14	Input Registers	%QW2	ARRAY [01] OF WORD				
🖶 😸 MainTask		8-14	Input Registers[0]	%QW2	WORD				
E PLC_PRG	Status	B 10	Input Registers[1]	%QW3	WORD				
IO_Modules_B_Series_ (IO Modules(B Series)	Information	8-39	Colls	%IB34	ARRAY [00] OF BYTE				
Ethernet (Ethernet)		11 - Np	Colls[0]	%IB34	BYTE				
* 🚮 Modbus_TCP_Master (Modbus TCP Master		8-**	Discrete Inputs	%Q88	ARRAY [00] OF BYTE				
ModbusTCP_Slave_Device (ModbusTCP S		- 9	Discrete Inputs[0]	%Q88	BYTE				
				Reset Mapp	ing Always update varia	ables En	vabled 1 (use bus o	cycle task if not used in any task)	~
		™g = Create new variable	%p = Map to existing variable	Reset Mapp	ing Always update varia	ables En	abled 1 (use bus o	cycle task if not used in any task) in	~
		™gr = Create new variable →Bac Cycle Options -Bac Cycle Options	°g - Map to existing valable tbue code setting ∨	Reset Mapp	ing Always update varia	ables En	abled 1 (use bus o	cycle task if not used in any task)	Description

Next, open the client emulation software "Modbus Poll", "Ctrl+N" create two Mbpoll windows, right-click in the blank spaces of each of the two windows—select "Read/Write Definition" setting, the first window Function is selected "03 Read Holding Registers (4x)", "Quantity" set to the length of the hold register set in Codesys; The second window is Function selection "04 Read Input Register (3x)", "Quantity" set to the length of the input register set in Codesys; The third window is Function selection "15 Write Multiple Coils (0x)", "Quantity" set to the coil length set in Codesys; The fourth window is Function selection "02 Read Discrete Input Register (1x)", "Quantity" set to the discrete input length set in Codesys.

e.f				
The Modbus Poll - Mbpoll4	andres Marco Mandares Hada			- o ×
Pile Edit Connection Setup Functions Dis	22 23 TC P ? R			
Mbpoli1		Mbpoll3	Mbpoll4	
Tx = 0: Err = 0: ID = 1: F = 03: SR = 1000m	Tx = 0: Err = 0: ID = 1: F = 04: SR = 1000ms	Tx = 0: Err = 0: ID = 1: F = 15: SR = 1000ms	Tx = 0: Err = 0: ID = 1: F = 02: SR = 1000m	
No connection	No connection	No connection	No connection	
Alias 00000	Alias	Alias 00000	Alias 00000	
0 0	1 0	0 0	0 0	
2	2	2 0	1 0	
3	3	3 0	3 0	
4	4	4 0	4 0	
5	5	5 0	5 0	
6	7	6 0	6 0	
7	8	7 0	7 0	
0	9	9	8	
2	J	-	3	
For Holp, proce F1				(102 169 1 100)- 503
roi neip, press F1.				[192.100.1.100]: 502

After completion, go back to the Codesys software, download and log in to the B2341 device again, and the error will disappear after the bus is not running and the TCP client is connected.

s – 4 X	BT_623F 💮 Device	Ethernet	Modbus_TCP_Slave	Modbus_TC	P_Master	ModbusTCP_Slave_I	Device X			
B2341 Modbus	Count									
😔 🐒 Device [connected] (82341)	General	The bus is not ru	nning. The shown val	ues are perhaps not act	tual					
B B PLC Logic	Serial Gateway	First		Filter Show all		· the Act	d EB for IO Channel	*= Go to Instance		
= 🔘 Application [run]	Modbus TCR Flave Device 1/0	1110		The show an			are for to charmen.	E GO TO MISTURICO		
Library Manager	Mapping	Variable	Mapping	Channel	Address	Туре	Current Value	Prepared Value	Unit	Description
PLC_PRG (PRG)	Modbus TCP Slave Device IEC	8-*		Holding Registers	%IW15	ARRAY [01] OF WORD				
Task Configuration	Objects	🛞 - 🍫		Holding Registers[0]	%IW15	WORD	<invalidated></invalidated>			
🗏 😏 👹 MainTask	Status	B- 🍫		Holding Registers[1]	%IW16	WORD	<invalidated></invalidated>			
PLC_PRG		÷.*•		Input Registers	%QW2	ARRAY [01] OF WORD				
IO_Modules_B_Series_ (IO Modules(B Ser	Information	8-50		Input Registers[0]	%QW2	WORD	<invalidated></invalidated>			
😑 😏 🗊 Ethernet (Ethernet)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Input Registers[1]	%QW3	WORD	<invalidated></invalidated>			
🖲 🔂 Modbus_TCP_Master (Modbus TCP M		😑 🐐		Colls	%IB34	ARRAY [00] OF BYTE				
▲ ModbusTCP_Slave_Device (ModbusTCP_Slave_Device)		🐵 😼		Coils[0]	%IB34	BYTE	<invalidated></invalidated>			
		😑 - * ø		Discrete Inputs	%Q88	ARRAY [00] OF BYTE				
		🛞 - 🍫		Discrete Inputs[0]	%QB8	BYTE	<invalidated></invalidated>			
						Reset Mapping	Always update varia	Dies Enabled 1 (use	t bus cycle	e task if not used in an

Back to Modbus Poll software, click "Connection--Connect" or use shortcut keys F3,to connect, in the pop-up interface set the "Connection" as "Modbus TCP/IP", enter the IP address and port number, and click OK after the configuration is complete.

Modbus Poll - Mbpoll1				- 0 ×
File Edit Connection Setup Functions Dis	play View Window Help			
	22 23 TC 2 9 1			
Mbpoll1	Mbpoll2 📼 🖾	Mbpoll3 🗆 🖬 🔀	Mbpoll4	
Tx = 82: Err = 61: ID = 1: F = 03: SR = 100	Tx = 250: Err = 0: ID = 1: F = 04: SR = 1000r	Tx = 250: Err = 0: ID = 1: F = 15: SR = 1000ms	Tx = 250: Err = 0: ID = 1: F = 02: SR = 1000	
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			N.	
		Connection Setup	*	
		Connection	OK	
		Modbus TCP/IP ~		
		Serial Settings	Cancel	
		COM8	Mode	
			ORTU OASCI	
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		8 Dala bits 🗠	Response Timeout	
		Name Berlin	1000 [ms]	
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		1 Stop Bit V Advanced	20 [ms]	
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		IP Address or Node Name		
		192.168.0.15		
		Server Port Connect Timeout	OPM	
		502 3000 [ms]		
			0-10	
		And a second		
For Holo, proc. F1				(102.169.0.15): 503
FOI FIELD, DIESS FI.				1192.168.0.151: 502

Go back to the Codesys software and it will see that all the devices are working fine.

- + ×	BT_623F 💮 Device	Ethernet Mode	us_TCP_Slave	Modbus_TCF	P_Master	ModbusTCP_Slave_I	Device x			
B2341 Modbus	General	Find		Filter Show all		- 🖶 Ad	d FB for IO Channel	Go to Instance		
B PLC Logic		Variable	Mapping	Channel	Address	Type	Current Value	Prepared Value	Unit	Description
and Application [run]	Serial Gateway	- *		Holding Registers	96TW 15	APPAY [0, 1] OF WORD				
in Library Mapager	Modbus TCP Slave Device I/O	8.49		Holding Registers[0]	96TW 15	WORD	0			
	Mapping	· · · ·		Holding Registers[1]	%IW16	WORD	0			
E M Task Configuration	Modbus TCP Slave Device IEC Objects	8-50		Input Registers	960W2	ARRAY [0., 1] OF WORD	Not undated			
A Se MainTask		8.50		Input Registers[0]	%OW2	WORD	0			
B PLC PRG	Status	8.50		Input Registers[1]	960W3	WORD	0			
* O III TO Modules B Series (TO Modules/B Ser	Information	8-10		Cols	96IB34	ARRAY [0.,0] OF BYTE				
Ethernet (Ethernet)		8.10		Cois[0]	%IB34	BYTE	0			
8 G fill Modbus TCP Master (Modbus TCP M		- 10		BitO	%EX34.0	BOOL	FALSE			
C ModbusTCP_Slave_Device (ModbusTC		- 10		Bit1	%DX34.1	BOOL	FALSE			
		- 10		Bit2	%DX34.2	BOOL	FALSE			
		- **		Bit3	%IX34.3	BOOL	FALSE			
		- *		Bit4	%IX34.4	BOOL	FALSE			
		**		Bit5	%EX34.5	BOOL	FALSE			
		- *9		Bit6	%DX34.6	BOOL	FALSE			
				Bit7	%IX34.7	BOOL	FALSE			
		8- 4		Discrete Inputs	%QB8	ARRAY [00] OF BYTE	Not updated			
		÷.**		Discrete Inputs[0]	%QB8	BYTE	0			
		- **		Bit0	%QX8.0	BOOL	FALSE			
		*•		Bit1	%QX8.1	BOOL	FALSE			
		- 10		Bit2	%QX8.2	BOOL	FALSE			
		50		Bit3	%QX8.3	BOOL	FALSE			
		- 10		Bit4	96QX8.4	BOOL	FALSE			
		**		Bit5	%QX8.5	BOOL	FALSE			
					-					
						Reset Mapping	Always update variab	eles Enabled 1 (use	bus cyde	task if not used in
		Bus Cycle Options Bus cycle task Use par	🍖 = Ma	tting variable	eate required to	asks				

Set the prepared values in the Codesys software and select "Debug - Write Values", or use shortcut keys "Ctrl+F7" to write, changes in values can also be monitored in the Modbus Poll software; Values from the Modbus Poll software can also be read in the Codesys software.

Diameterial (2014) Energi (2014) Image: Constraint (2014) Second (2014) Image: Constraint (2014)	◆Add F8 for IO Channel. *** Go to Instance Current Value Vrepared Value Unit Description 657 657 64 657 657 657 64 657 859 65 65 65 813 65 65 65 807 543 65 65 914 65 65 65 1914 65 65 65 1915 614 65 65 1916 65 65 65 1916 65 65 65
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Bit2 %QX8.2 BOOL	FALSE
Bit3 %QX8.3 BOOL	TRUE
Bit4 96QX8.4 BOOL	FALSE
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telp, press F1.								[192.168.0.15]

5 Example Demonstration

5.1 Control Demand

Project Name: Part of the process of sewage treatment plant (sump to regulating tank); Project function: The external sewage is automatically replenished to the sump tank, and the water in the sump is sent to the regulating tank through the pumping pump for further sewage treatment.

Project requirements: The start and stop of the pump is jointly determined by the level switch of the regulating tank and the collecting basin, and a level gauge is installed in the collecting tank and the regulating basin respectively, which can detect the liquid level value of the pool. Sound and light alarms are installed in the collecting tank and the regulating tank to alarm the liquid level, and the yellow indicator light is on when the pump is faulty, and the green indicator light is on when it is running.

5.2 Preparation

Pump control conditions

Starting conditions: If the level of the regulating tank is low and the level of the sump is not low, start the pump.

Stop condition: Stop the pump when the level of the regulating tank is high or the level of the sump is low.

Alarm conditions: When the level of the sump is higher than 4.5 meters or the level of the regulating tank is higher than 3.5 meters, the audible and visual alarm will be triggered.

Point statistics

DI: 2 sets of liquid level switches with high level and low liquid level, and 6 DI signals for pump operation and fault signals

DO: pump drive, 2 sound and light alarms drive, 2 LEDs for a total of 5 DO signals

AI: The analog signals of the 2 sets of level gauges have a total of 2 AI signals

Project analysis: combined with the actual situation of B2341, and according to the selection table: select BT-623F module to receive DI signal (high level signal) and output DO signal (high level signal); Select the BT-3238 module to receive the analog signal.

5.3 Project Establishment

In the menu bar, select File - New Project, select the standard project in the pop-up

🞦 New Project	×
Categories	Templates
Libraries Projects	
	Empty project HMI project Standard project w
	1
A project containing one device, one apr	polication, and an empty implementation for PLC_PRG
Name Untitled4 2	<u>, , , , , , , , , , , , , , , , , , , </u>
Location D:\ODOT\6 program\codes	sys <u>3</u>
	4 OK Cancel

In the pop-up window, select B2341 as the device and click OK.

Standard P	roject			×
	You are abou objects withi - One progra - A program - A cyclic tasi - A reference	ut to create a new standard project. This wizard will crea in this project: mmable device as specified below PLC_PRG in the language specified below k which calls PLC_PRG to the newest version of the Standard library currently	ate the following installed.	
	Device PLC_PRG in	B2341 (Sichuan ODOT Automation System Co., Ltd.) Structured Text (ST)		~
		ОК	Cancel	

After the project is created, right-click B2341 and select Add Device. Find "IO

Modules" in the pop-up window, select it, click Add Device, and you don't need to close this page after adding.

Denises and M		Tasilian - 0 M
E Coll fairt	Add Device X	100B0X • 4 X
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	Group by category Display all versions (for experts only) Display outdated versions Nondeep Series)	

Select the "empty" slot and insert the corresponding modules BT-623F and BT-3238 according to the hardware configuration.



Double-click the module and select I/O Mapping to view the corresponding I/O

address, set the mapping relationship, and set the Always Update variable to Enable 1.

- 4 × /8 BT_623F ×										+ ToolBox	
Device (82341)	Fir	d		Filter Show all				• 🗣 Add	FB for IO Channel		
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All (PB)				Bito	%EX0.0	BOOL					
				BITI	76LX0.1	BOOL					
				0112	78LAU.2	BOOL					
- ge marriax		-		Dita	78LAU.3	BOOL					
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BT 3239 (8T-3238)		- 10		847	96700.7	BOOL					
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Considering the user's usage habits, FB blocks are often called in the process of program writing, and this time the analog input is used to build the block and the ST language is used to write.

Right-click Application, select "Add Object--POU", set the name of the function block, select the type as "Function Block B", select "Structured Text (ST)" as the



language, and click Add after the setting is complete.

Next, the main program is written according to the control requirements.

• ● ● Proce E2:1) • ● ● Proce E2:10 • ● ● ● Proce E2:10 • ● ● ● Proce E2:10 • ● ● ● Proce E2:10 ● ● ● ● Proce E2:10 ● ● ● ● ● ● ● ● ● ●		- 7 X /	BT_623F 18 BT_3238 AI1 PLC_PRG X	
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● ● ● ○ Moddes 3.5em (2) Modde 3.5em	😑 🍪 MainTask		11 A_Warning AT\$QX0.0:BOOL:// <i>美水池声光报誓</i>	1
■ E10 Modeles 5 Sere_00 Modeles Ser 13 C_YELION ATVO0.21800L//第約第合規制行 C_GEERATY00.21800L//第約第合規制行 C_ATV00.21800L//第約第合規制行 ■ E1,525 E1.5270 13 C_ATV00.21800L//第約第合規制行 C_ATV00.21800L//第約第合規制行 ■ E1,525 E1.5270 13 C_ATV00.21800L//第約第合規制行 C_ATV00.21800L//第約第合規制行 ■ E1,525 E1.5270 14 C_ATV00.21800L//第約第合規制行 C_ATV00.21800L//第約第合規制行 ■ E1,525 E1.5270 15 C_ATV00.21800L//第約第合規制行 C_ATV00.21800L//第約第合規制行 ■ E1 [f C_Fault=FALSE AND L_LOW=FALSE AND b_LOW=FAUE THEN//第估指標所 C_ETEND; 100% ■ E1 [f C_Fault=FALSE AND L_LOW=FAUE AND b_LOW=FAUE THEN//第估指標所 C_ETEND; 100% ■ E1 [f C_Fault=FALSE AND L_LOW=FAUE THEN//第估指標所 C_ETEND; 100 [f C_AUE=FAUE THEN//第估指標所 C_ETEND; ■ E1 [f C_Fault=FAUE THEN//系估評## C_ETEND; 100 [f C_Fault=FAUE THEN//系估評# C_ETEND; ■ E1 [f C_Fault=FAUE THEN//系估評## C_ETEND; 11 BN_IFT ■ E1 [f C_Fault=FAUE THEN//系估評# C_ETEND; 11 BN_IFT ■ C1 [f C_Fault=FAUE THEN//系估評# C_ETEND; 11 BN_IFT ■ C1 [f C_Fault=F	D PLC_PRG		12 B_Warning AT%0X0.1:BOOL://语节治声光报誓	
Image: State Sta	- III IO Modules B Series (IO Module	es(B Ser	13 C_Yellow AT%QX0.2:BODL; / 源的黄色指示灯	
for any set of the set of	H RT 623E (RT-523E)		14 C_Green AT%QX0.3:BOOL; // 质的颜色指示灯	
for participance (1997) for participance (1997	B BT 3239 (BT-3239)		15 C ATS(X)S1DUDL//38	
compty> IP ⊂ Full+FALSE AND A_LOW-FALSE AND B_LOW-FALSE AND A_LOW-FALSE AND A_LOW FALSE AND A_L	B1_3236 (01-3236)		17 1 Senar 175101-WDD-//畫水沙莎仍然原題	
	<pre><empty></empty></pre>			100 %
C dmphy> I C_1+RDE; C dmphy> I ND_IF C dmphy> I IF_C_Paule=RLSE ND A_Low=TRUE OR B_High=IRGE THEM//#/#/###### C dmphy> I IF_C_Paule=RLSE ND A_Low=TRUE OR B_High=IRGE THEM//#/####### C dmphy> I IF_C_Paule=RLSE ND A_Low=TRUE OR B_High=IRGE THEM//#/####### C dmphy> I IF_C_Paule=RLSE ND A_Low=TRUE OR B_High=IRGE THEM//#/######## C dmphy> I IF_C_Paule=RLSE ND C=TRUE //#/#################################	<pre>K <empty></empty></pre>		TE C FARILE FAISE AND & LOWEFAISE AND B LOWEFAISE THEN // # # ## # #	Lancesco Hill 7
C chroby> 1 PR0_TF C chroby> 1 FC_Fault=FALSE AND A_Low-TRUE OR B_High=TRUE THEN//美術始水源 C chroby> 1 FC_Fault=FALSE AND A_Low-TRUE OR B_High=TRUE THEN//美術始水源 C chroby> 1 FC_Fault=FALSE AND A_Low-TRUE OR B_High=TRUE THEN//美術始水源 C chroby> 1 FC_Fault=FALSE AND A_Low-TRUE OR B_High=TRUE THEN//美術始水源 C chroby> 1 FC_Fault=FALSE THEN//美術分/T C chroby> 1 FC_Fault=FALSE THEN//美術分/T C chroby> 1 FC_Fault=FALSE THEN//原始/推荐/FAT/T C chroby> 1 FC_Fault=FALSE THEN//原始/FAT/FAT/T C chroby> 1 FC_Fault=FALSE THEN//原始/FAT/FAT/FAT/T C chroby> 1 FC_Fault=FALSE THEN//FAT/FAT/FAT/FAT/FAT/FAT/FAT/FAT/FAT/FA	<pre>K <empty></empty></pre>		2 CINTRE:	
C dmpt>> - - C dmpt>> F F C dmpt>	<pre>K <empty></empty></pre>		3 END IF	
C Cmpty> 日 5 IF C_Fault=FAUSE ND A_LOW=TRUE TREN//供付付水部 C C=mpty> ED_IF ED_IF ED_IF C C=mpty> C C=mpty> C C=mpty> C C=mpty> I ED_IF ED_IF ED_IF C C=mpty> C C=mpty> I ED_IF ED_IF ED_IF	K <€mpty>		4 -	
C 《mphy> C (= FALSE; K (= mphy> F (= Rus=TRUE AND C=TRUE //#/#/#/#/#/// C 《mphy> F (= Rus=TRUE AND C=TRUE //#/#/#/#/// C 《mphy> C (= rub: = TRUE //#/#/#/#/#/#/#// C 《mphy> 10 C_Green:=TRUE; C 《mphy> 11 RND_TP C 《mphy> 12 F (= Rus=TRUE TRUE //#/#/##/#/// C 《mphy> 12 F (= Rus=TRUE TRUE //#/#/##/#/// C 《mphy> 12 F (= Rus=TRUE TRUE //#/#/##/##/// C 《mphy> 12 F (= Rus=TRUE TRUE //#/#/##/##/// C 《mphy> 14 C_Vellow:=TRUE; C 《mphy> 15 RND_TP C 《mphy> 16 RND_TP C 《mphy> 16 J_Level(inputi=A_Sensor , H:= S, L:= 0, outputi=> A_Value); C 《mphy> 16 J_Level(inputi=A_M#/#/#/#/#/#/#/#/#/#/#/#/#/#/#/#/#/#/#/	<pre>K <empty></empty></pre>	8	5 IF C_Fault=FALSE AND A_Low=TRUE OR B_High=TRUE THEN//共闭油水源	
【 本時内> 7 ZND_IF 【 本時内> 9 17 C_NUE_THEN//新途行推示// 【 本時内> 1 RD_IF 【 本時内> 11 RD_IF 【 本時内> 11 RD_IF 【 本時内> 13 IF C_FAULTENEX / 新途行推示// 【 本時内> 14 RD_IF 【 本時内> 15 ZND_IF 【 本時内> 15 ZND_IF 【 本時内> 15 ZND_IF 【 本時内> 16 Level(input:=A_Sensor, H:= 5, L:= 0, output!=> A_Value); 【 本時内> 16 Level(input:=A_Sensor, H:= 5, L:= 0, output!=> B_Value); 【 本時内> 14 Level(input:=A_Sensor, H:= 5, L:= 0, output!=> B_Value); 【 本時内> 14 Level(input:=B_Sensor, H:= 5, L:= 0, output!=> B_Value); 【 本時内> 14 Level(input:=B_Sensor, H:= 5, L:= 0, output!=> B_Value); 【 本時内> 17 A_Karinig:=TBUE; L 本内内> 11 Level(input:=B_Sensor, H:= 5, L:= 0, output!=> B_Value); 【 本時内> 11 Level(input:=B_Sensor, H:= 5, L:= 0, output!=> B_Value); 【 本時内> 12 A_Karinig:=TBUE; L AU 11 Level(Input:=B_Sensor, H:= 5, L:= 0, output!=> B_Value); L AU 12 A_Karinig:=TBUE;	K <empty></empty>		C:=FALSE;	
C 名前的小> B IF C_Run=TRUE AND C=TRUE THEN//系信任推示// C_Green=TRUE; E 名前的小> C_Green=TRUE; E 名前的小> If C_Green=TRUE; E 名前的小> If C_FINET THEN//系信律推示// C_YELION=TRUE; E 名前的小> If C_YELION=TRUE; E 名前的小> If C_YELION=TRUE; E 名前小> If C_YELION=TRUE; E 名前小> If C_YELION=TRUE; E C_YELION=TRUE; E C 名前小> If C_YELION=TRUE; E C_YELION=TRUE; E E C Sensor, Hi=5, Li=0, outputi=> A_Value); A_Level(inputi==Sensor, Hi=5, Li=0, outputi=> B_Value); C Sensor, Hi=5, Li=0, outputi=> B_Value); If C Sensor, Hi=5, Li=0, outputi=> B_Value; If C Sensor, Hi=5, Li=0, outputi=> B_Value; If C Sensor, Himiting Sensor, Hi=5, Li=0, outputi=> B_Value; If C Sensor, Himiting Se	K <€mptv>		7 END_IF	
C dimpty> If C	E (Empty)			
Compty> 11 END_17 C dempty> 11 END_17 C dempty> 12 IF C_Fault-TRUE THEN//所含C######## C dempty> 13 IF C_Fault-TRUE THEN//所含C####### C dempty> 14 C_Tellow:=TRUE; END_17 C dempty> 16 C dempty> 16 C dempty> 18 Evel(input):==_Sensor, H:= 5, L:= 0, output!=> A_Value); C dempty> 10 IF A_Value>=4.5 THEN//所念代書##Syff A_starning:=TRUE; END IF	f Control		IF C_KOM=INOL AND C=INOL THEN// JRAE (T / # ///)	
	< empty>		I PND TP	
C 名前(1) 10 IF C_Fault=*/BUE THEM://新会は準備示が C_Vellow:=TBUE; C 名前(1) 2 C_Vellow:=TBUE; EMD_TF 16 EMD_TF C 名前(1) 2 A_Level(input):=A_Sensor, H:= 5, L:= 0, output]=> A_Value); C 名前(1) 2 C 名前(1) 2 C 名前(1) 2 C 名前(1) 2 C 名前(1) C 名前(1) C Antip C Antip<	<empty></empty>		12	
【 < 他的サン 14 (文生Liouri=TRUE;) END IF (ADD) 14 (文生Liouri=TRUE;) END IF (ADD) 14 (ADD)	↓ <empty></empty>	8	13 IF C_Fault=TRUE THEN//源故障描示灯	
【 本市内シ> 15 E EBS_IF 【 本市内シ> 16 【 本市内シ> 17 】 Level(input):=A_Sensor, H:= 5, L:= 0, output]=> A_Value); 【 本市内シ> 15 】 医UPD 20 【 本市内シ> 20 】 IP A_Value>=4.5 THEM>/#示水泡声光频響が 】 A_KBITE 21 】 ABD IP 22 】 KBD IP 23 】 KBD IP 24	<pre>C <empty></empty></pre>		14 C_Yellow:=TRUE;	
【 <mpty> 16 【 <mpty> 17 【 <mpty> 17 【 <mpty> 18 【 <mpty> 18 【 <mpty> 19 【 <mpty> 19 【 <mpty> 19 【 <mpty> 10 【 <mpty> 10 】 IF A_Value>-4.5 THEN / mまかた声が用意が7 从 Raning:=THEN / mまかた声が用意が7 从 Raning:=THEN / mまかた声が用意が7 从 Raning:=THEN / mまかた声が18 KD 27 KD 27</mpty></mpty></mpty></mpty></mpty></mpty></mpty></mpty></mpty></mpty></mpty></mpty></mpty></mpty></mpty></mpty></mpty>	K <empty></empty>		15 END_IF	
【 <型mpty> 17 A_Level(input):=A_Sensor, H:= 5, L:= 0, output)=> A_Value); 【 <型mpty> 19 B_Level(input):=B_Sensor, H:= 5, L:= 0, output)=> B_Value); 【 <型mpty> 20 IF A_Value>4.5 THER//表示位声光很多功 【 <型mpty> 21 IF A_Value>4.5 THER//表示位声光很多功 【 <型mpty> 22 A_Barning:=THUE; KBD IF 20 IND IF	Ľ <empty></empty>		16	
【 <国内ty> 15 B_Level(input1:=B_Sensor, H:= 5, L:= 0, output1=> B_Value); 【 <国内ty> 20 【 <国内ty> 日 11 F A_Value>=4.5 THEX://東北市野小(【 <国内ty> 22 A_Saring:=THEX://東北市野小() 1 KD 2F A_SARING:=THEX://	K <€mpty>		17 A_Level(input):=A_Sensor, H:= 5, L:= 0, output]=> A_Value);	
は、「「」」のPrevel(Inputling_Sensor, nine), Line U, Outputline) B_value); 【 《mpty> 日 21 IF A_Value>=4.5 THER//東水池声光描都近 【 《mpty> 22 A_Reming:=THUE; 28 END IF END IF A_UNINE:	K <€mpty>		18	
【 《mpty> 目 21 IF A_Value>=4.5 THEM // 東水池声北部部/7 【 《mpty> 22 A_Naring:-THUE; 3 RND IF 3 RND	C (Fronty)		12 S_Level(input: = S_bensor , n:= 0, L:= 0, output: => B_Value); 20	
≤ suppy> 22 λ_Karning:=1802; 23 RN0 IP	r Comply	9	2] IF & Value>=4.5 THEN // 並水地當岸經際行	
4 dempty> 23 END IF	<pre>cempty></pre>		A Warning:=TRUE;	
	<		23 RND TP	

5.5 Program Downloads and Monitoring

Double-click Device (B2341), select communication settings, enter the IP address of the B2341 module (the IP address of the module can be viewed by the LCD display or IO Config software), and press Enter to activate the device.

 test.project* - CODESYS File Edit View Project Build Online 	Debug Tools Window Help			i × ₹5	
testproject* - CODESYS File Edit View Project Build Online with the second se	Debug Tools Window Help Main M M M Rep 10 - C 9 87_623F 9 87_3238 Communication Settings Applications Backup and Restore Files Log R.C Shell Users and Groups Access Rights Symbol Rights Licensed Software Metrics	Application (Device: PLC Logic) • C C + =	- C	• a	×
C damphy> C damp	Tesk Deployment Ratus Isformation	Your device can be second, Lean more	🏷 T. 🎦 P.	. Nisua	ał
Messages - Total 0 error(s), 0 warning(s), 6 message(s		Last build: 🔷 0 🖲 0 Precomple 🗸 🕍 Project user: (nobody)		0	

After the device is activated, compile, download, and run the program, it can be monitored online.

S V								
Image: Conserved (0233) -	- ₽	× 18 BT_623F 18 BT_3238 📄 AI1 📄 PLC_PRG 🗙 📆 1	Device					
Bart Cape Spec Value Prepared value Address Comment • O Address fund • A High • C Finit • A High •	Device [connected] (82341)	Device.Application.PLC_PRG						
■ O Application [um] ■ A Hybb ■ T PAU2 Nu0.0 StableSetDUFH; ■ D D Application [um] ■ A Hybb ■ T PAU2 Nu0.0 StableSetDUFH; ■ D RC_PR0 (NR) ■ C ■ T PAU2 Nu0.0 StableSetDUFH; ■ D RC_PR0 (NR) ■ C ■ T PAU2 Nu0.0 StableSetDUFH; ■ D RC_PR0 (NR) ■ C ■ Low ■ T PAU2 Nu0.0 StableSetDUFH; ■ D RC_PR0 (NR) ■ Low = T PAU2 Nu0.0 StableSetDUFH; ■ D RC_PR0 (NR) ■ Low = T PAU2 Nu0.0 StableSetDUFH; ■ D RC_PR0 (NR) ■ Low = T PAU2 Nu0.0 StableSetDUFH; ● D D D StableSetDUFH; ■ StableSetDUFH; ■ StableSetDUFH; ■ StableSetDUFH; ● D D StableSetDUFH; ■ StableSetDUFH; ■ StableSetDUFH; ■ StableSetDUFH; ● D D StableSetDUFH; ■ StableSetDUFH; ■ StableSetDUFH; ■ StableSetDUFH; ● D	PLC Logic	Expression	Type	Value	Prepared value	Address	Comment	
	Application [run]	A High	BIT	FALSE		%D(0.0	集水和高速位开关	
ⓐ Liney Namage ⓑ Liney Namage ⓑ Liney ⓑ Line ⓑ Line ⓑ Line ⓑ Line ⓑ Line ⓑ Line ⓑ Liney ⓑ Liney ⓑ Liney ⓑ Line	- 🎑 GVL	A Low	BIT	FALSE		%D0.1	集水油低液位开关	
山口のののの 山口ののののの 山口のののののののののののののののののののののののののののののののののののの	- 🖆 Library Manager	B High	BIT	FALSE		%D0.2	调节地高速位开关	
● C_Ref C_Ref FT FL25 No0.4 PR195/18-6 ● G_Ref ● C_Ref ET FL25 No0.4 PR195/18-6 ● G_Ref ● C_Ref ET FL25 No0.4 PR195/18-6 ● G_Ref ● C_Ref ET FL25 No0.3 PR196/84-6 ● D_REF ● C_Ref ● C_Ref No0.3 PR196/84-6 ● D_REF ● C_Ref ● Ref No0.4 PR196/84-6 ● D_REF ● C_Ref ● Ref No0.3 PR196/84-7 ● D_REF ● C_Ref ● C_Ref No0.4 PR196/84-7 ● D_REF ● C_Ref ● Ref No0.3 PR196/84-7 ● C_Ref ● C_Ref ● C_Ref No0.4 PR196/84-7 ● C_REF ● C_REF ● C_REF No0	AI1 (FB)	Ø B Low	BIT	FALSE		%D0.3	调节冲低波位开关	
● G_fack ● G_fack ● G_fack ● G_fack ● G_fack ●	PLC_PRG (PRG)	C Run	RIT	FALSE		%D0.4	泵的运行信号	
	= 🧱 Task Configuration	C Fault	BIT	FALSE		%D0.5	泵的故障信号	
····································	🖹 😏 🎲 MainTask	A Warning	BIT	TRUE		%OX0.0	集水池南光报整	
C (1) (bookset, 1, Sever, 0, 00 bookset) • C = 1 - C = C = C = C = C = C = C = C = C =	PLC_PRG	B Warning	BIT	TRUE		%0X0.1	调节地南光报整	
Off #1_525 @T4239 Image: Control of the second s	😏 📆 IO_Modules_B_Series_ (IO Modules(B	C Yellow	BIT	FALSE		%0X0.2	泵的菌色指示灯	
Oil #1_3238 (#1-323) ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・		A C Green	RIT	FALSE		%OX0.3	東的緑色指示灯	
C desky/> (mode) (mod) (mo	- 🔂 BT_3238 (BT-3238)	+ c_orden	BIT	FALSE		%0X0.4	37	
C dopty> Image: State File	<pre>K <empty></empty></pre>	A Canada	10000	22768		86.74/1	使动态结体感觉	
C dEmpty> 11 Mm_1** C dEmpty> 11 A_Level(input)EXEN]*A_Ennot[EXEN], 15 5: * 0, output] 5: * 0, output] C dEmpty> 11 A_Level(input)EXEN]*A_Ennot[EXEN], 15 5: * 0, output] 5: * 0, output] 5: * 0, output] C dEmpty> 13 0 B_Level(input)EXEN]*0, 15 15: * 0, output] 5: * 0, output]	C cheptys C cheptys	■ ● IF C_FAULTEREFFLIXE AND A_LOWEREFFLIXE OR 5_Sig ● ● IF C_FAULTEREFFLIXE AND A_LOWEREFFLIXE OR 5_Sig ● ● IF C_FAULTEREFFLIXE AND A_LOWEREFFLIXE THEM//SIG/Sig I ● IF C_FAULTEREFFLIXE AND A_DOWEREFFLIXE THEM//SIG/Sig I ● IF C_FAULTEREFFLIXE THEM//SIG/Sig I ■ 0 C_GREENEFELTINE THEM//SIG/Sig I ■ 0 C_GREENEFELTINE THEM//SIG I ■ 0 C_VELIONESEE I ■ 0 C_VELIONESEE I ■ 0 IF I ■ 0 C_VELIONESEE I ■ 0 IF I ■ 0 IF I ■ 0 IF I ■ 0 IF I ■ IF ■ I ■ IF ■ I ■ IF ■ I ■ ■ ■	b (112) - TRUE 1120 <i>(11) / 12 / 12 / 12 / 12 / 12 / 12 / 12 /</i>	tyut1 <u>593</u> tput1 <u>593</u> →]~> A_Value <u>543</u> →]~> B_Value <u>543</u> →););		
· Shipty	C <empty> C <empty> C <empty> C <empty></empty></empty></empty></empty>	19 B_Level(input]32768:=B_Sensor[32768], 图 5 20 日 21 IF A Value 553 → b=4.5 THEN//集水池声光振颤灯	.,					

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Sichuan, China.



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