



## ZQ600 Series Programmable Logic Controller

### User Manual

## Preface

Thank you for choosing the ZQ600 series motion control PLC product. This product is a high-performance mid-sized PLC launched by our company. Its design and development fully comply with the PLCopen specification and IEC 61131-3 standard, supporting ST, LD, SFC, CFC and other programming languages. It boasts advantages such as powerful CPU performance, stable and reliable hardware and software system design, rich expansion capabilities, compact size, and modularity. It is primarily applied in motion control scenarios and complex production line networking scenarios, especially suitable for multi-axis servo control and multi-bus protocol integration.

This manual introduces the installation and wiring of the product, including product information, physical installation, electrical installation, etc. The illustrations are provided for clarity and may differ slightly from the actual product. Differences may also occur due to product upgrades; please refer to the actual product.

Please ensure this manual reaches the end user and keep it properly for future reference and maintenance use.

If you have any questions, please contact our company or our agents promptly. We are committed to providing you with sincere service.

- Version Change Record

Change Date	Issue Version	Change Description
2025.10	V00	First release of the manual.

- Related Documents

Name	Document Number	Brief Description
ZQ600 Series Programmable Logic Controller User Manual (this manual)	ZQ60000000CPU	Introduces product installation and wiring, including product info, install, electrical install, Communication Connection etc.

## Safety Precautions

- Safety Declaration

This chapter explains the safety precautions required for the correct use of this product. Before using this product, please read the user manual and correctly understand the relevant safety information. Failure to observe the matters stipulated in the safety precautions may lead to death, serious injury, or equipment damage.

The "Danger", "Warning", and "Caution" notices in this manual do not represent all safety items that should be observed, but serve only as a supplement to all safety precautions.

This product should be used in an environment that meets the design specifications. Otherwise, malfunctions may occur. Functional abnormalities or component damage caused by failure to comply with relevant regulations are not covered under the product quality guarantee.

Our company shall not bear any legal responsibility for personal safety accidents or property losses caused by failure to adhere to the contents of this book or improper operation of the product.

- Safety Level Definitions



Indicates that if operations are not performed as specified, it could lead to death or severe bodily injury.



Indicates that if operations are not performed as specified, it may lead to death or severe bodily injury.



Indicates that if operations are not performed as specified, it may lead to minor bodily injury or equipment damage.

- Safety Instructions

In the diagrams within this manual, the product is sometimes shown with covers or protective guards removed to display details. When using this product, always ensure covers or guards are properly installed and operate according to the instructions in the user manual.

The product images in this manual are for illustrative purposes only and may differ slightly from the product you ordered. Please refer to the actual ordered product.

## Receiving and Unpacking



### 警告

- If upon unpacking you find the product or its accessories damaged, rusted, show signs of prior use, etc., DO NOT INSTALL!
- If upon unpacking you find internal moisture, missing components, or damaged parts, DO NOT INSTALL!
- Carefully check the packing list. If the list does not match the product name, DO NOT INSTALL!



### 注意

- Before unpacking, inspect the external packaging of the equipment for integrity, checking for any breakage, soaking, dampness, deformation, etc.
- Open the packaging following the sequence of layers; avoid violent knocking!
- When unpacking, check the surfaces of the equipment and accessories for damage, rust, scratches, etc.
- After unpacking, carefully compare against the packing list to verify the quantity of equipment and accessories, and whether documentation is complete.

## Storage and Transportation



### 注意

- Strictly follow the specified storage and transportation conditions for the product. Otherwise, there is a risk of product damage.
- Avoid storage and transportation in places exposed to water splashes, rain, direct sunlight, strong electric fields, strong magnetic fields, or areas with strong vibrations.
- Try to avoid storing the product for more than 3 months. For longer storage periods, implement more stringent protection and necessary inspections.
- Ensure the product is strictly packaged before vehicle transport. Use enclosed containers for long-distance transportation.
- Do not transport this product mixed with other equipment or items that might affect or damage it.

## Installation



### 危险

- Only trained professionals with knowledge of electrical equipment are permitted to operate. Operation by non-professionals is strictly prohibited!



## 警告

- Before installation, be sure to carefully read the product user manual and safety precautions!
- Do not install this product in locations with strong electric fields or electromagnetic interference!
- Before starting installation work, ensure the mechanical strength of the installation location is sufficient to support the equipment's weight; otherwise, mechanical hazards may result.
- During installation work, do not wear loose clothing or jewelry, otherwise there is a risk of electric shock!
- When installing the product in an enclosed environment (such as inside a cabinet or chassis), use cooling devices (like cooling fans or air conditioning) to provide adequate cooling to meet environmental requirements; otherwise, it may cause overheating or fire.
- Modification of this product is strictly prohibited!
- Do not loosen fixing bolts of product components and parts, or bolts marked in red!
- When this product is installed in a cabinet or terminal equipment, the cabinet or terminal equipment must provide appropriate protective devices such as fire enclosures, electrical protection enclosures, and mechanical protection enclosures. The protection level must meet relevant EC standards and local laws and regulations.
- When installing equipment like transformers that generate strong electromagnetic interference, install shielding protection devices to prevent malfunctions of this product!
- Install the product on metal or other flame-retardant materials. Do not let flammable materials contact or adhere to the product, otherwise there is a danger of causing a fire.



## 注意

- During installation work, cover the top of the product with cloth or paper, etc., to prevent metal chips, oil, water, or other foreign objects from entering during drilling, which could cause product failure. After completion, remove the covering material to prevent blocking ventilation holes and affecting heat dissipation, leading to abnormal heating of the product.
- Resonance may occur when operating machinery designed for constant speed at variable speeds. In such cases, installing anti-vibration rubber under the motor frame or using vibration suppression functions can effectively reduce resonance.

## Wiring



## 危险

- Non-professionals are strictly prohibited from performing equipment installation, wiring, maintenance, inspection, or component replacement!
- Before wiring, turn off the power to all equipment. Even after turning off the power, residual voltage remains in the internal capacitors. Wait at least for the time indicated on the product's

warning label before proceeding with wiring or other operations. Measure the main circuit DC voltage to confirm it is at a safe level; otherwise there is a risk of electric shock.

- Perform wiring tasks, removing product covers, or touching circuit boards ONLY when power is turned off; otherwise there is a risk of electric shock.
- Ensure proper grounding of both the equipment and the product; otherwise there is a risk of electric shock.



## 警告

- Never connect input power to the output terminals of the device or product, as this can cause equipment damage or even fire.
- When connecting drive equipment to motors, ensure the terminal phase sequence between the product and the motor is accurate and consistent to avoid reverse rotation of the motor.
- Cables used for wiring must meet requirements for wire gauge, shielding, etc. The shield of shielded cables needs reliable single-point grounding!
- Tighten terminal screws according to the tightening torque specified in the manual. Insufficient or excessive tightening torque may cause overheating, damage at connection points, and pose a fire hazard.
- After wiring is completed, ensure all cable connections are correct, and that there are no dropped screws, washers, or exposed wires inside the product; otherwise there may be a risk of electric shock or product damage.



## 注意

- Follow steps outlined in Electrostatic Discharge (ESD) prevention measures and wear an electrostatic wristband during wiring operations to avoid damaging the equipment or internal circuits of the product.
- For control loop wiring, use twisted-pair shielded cables, connect the shield to the product's ground terminals for grounding; otherwise it may cause abnormal operation of the product.



## 危险

- Before applying power, confirm the product is installed correctly and wiring is secure, and that the motor assembly permits restarting.
- Before applying power, confirm the power supply matches product requirements to avoid product damage or fire!
- It is strictly forbidden to open product cabinet doors or protective covers, touch any wiring terminals, or disassemble any part or component while power is on; otherwise there is a risk of electric shock!



## 警告

- After completing wiring and parameter settings, perform a machine trial run to confirm safe operation; otherwise it may lead to personnel injury or equipment damage.
- Before energizing, ensure the rated voltage of the product matches the power supply voltage. Incorrect power supply voltage poses a fire hazard.
- Before energizing, ensure there are no personnel around the product, motor, or machinery; otherwise it may lead to injury or death.

## Operation



### 危險

- Non-professionals are strictly prohibited from operating the product; otherwise there is a danger of injury or death!
- It is strictly forbidden to touch any wiring terminals, disassemble any part or component of the equipment or product while it is running; otherwise there is a risk of electric shock!



### 警告

- Do not touch the equipment housing, fan, resistors, etc., to test temperature, as this may cause burns!
- During equipment operation, prevent other objects or metal items from falling into the equipment, as this may cause fire or product damage!

## Maintenance



### 危險

- Non-professionals are strictly prohibited from performing equipment installation, wiring, maintenance, inspection, or component replacement!
- Maintenance MUST NOT be performed while power is ON; otherwise there is a risk of electric shock!
- After disconnecting power to all equipment, wait at least for the time indicated on the product's warning label before conducting inspection, maintenance, or other operations.



### 警告

- Please report equipment repairs according to the product warranty agreement.
- When fuses blow, circuit breakers trip, or Earth Leakage Circuit Breakers trip, wait at least for the time indicated on the product's warning label before reapplying power or operating the machine; otherwise it may lead to personal injury, death, or equipment damage.
- If equipment fails or is damaged, troubleshooting and repair must be performed by qualified personnel following maintenance guidelines, and records should be kept.
- Follow the guidance for replacing consumable/wear parts.

- Do not continue using a machine that is already damaged, as this could cause further injury/death or more extensive product damage.
- After replacing equipment, be sure to re-check equipment wiring and parameter settings.

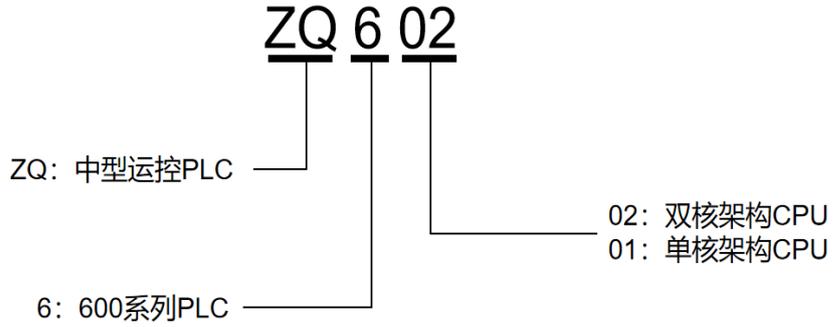
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# 1 Product Information

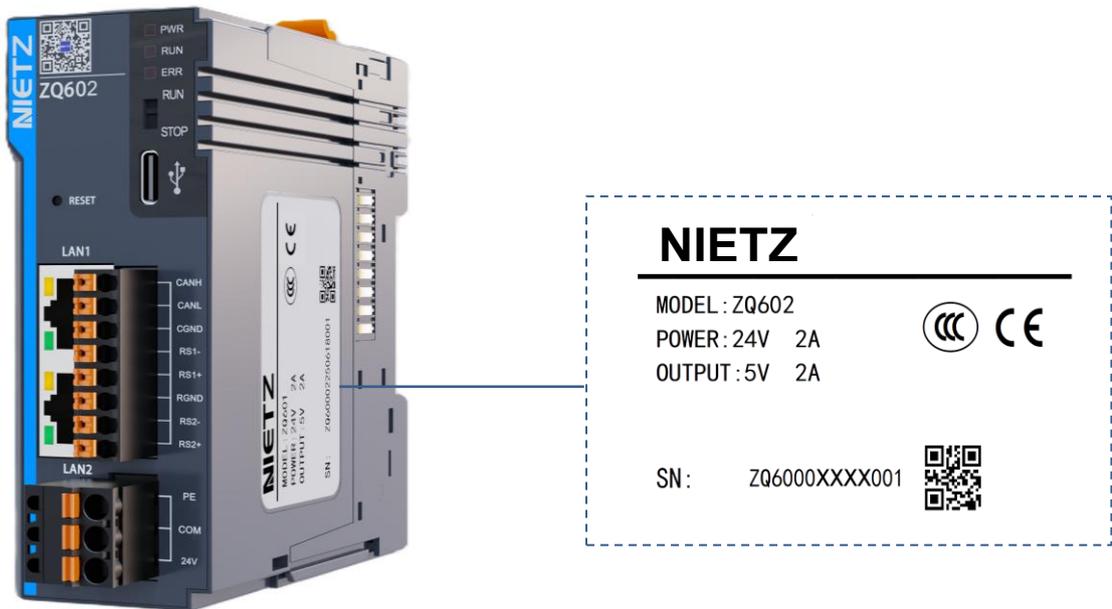
## 1.1 Model Number and Nameplate Description

### 1.1.1 Model Number Description



ZQ: Medium-sized operation control PLC ;      6: 600 Series PLC  
02: Dual-core CPU;                                      01: Single-core CPU

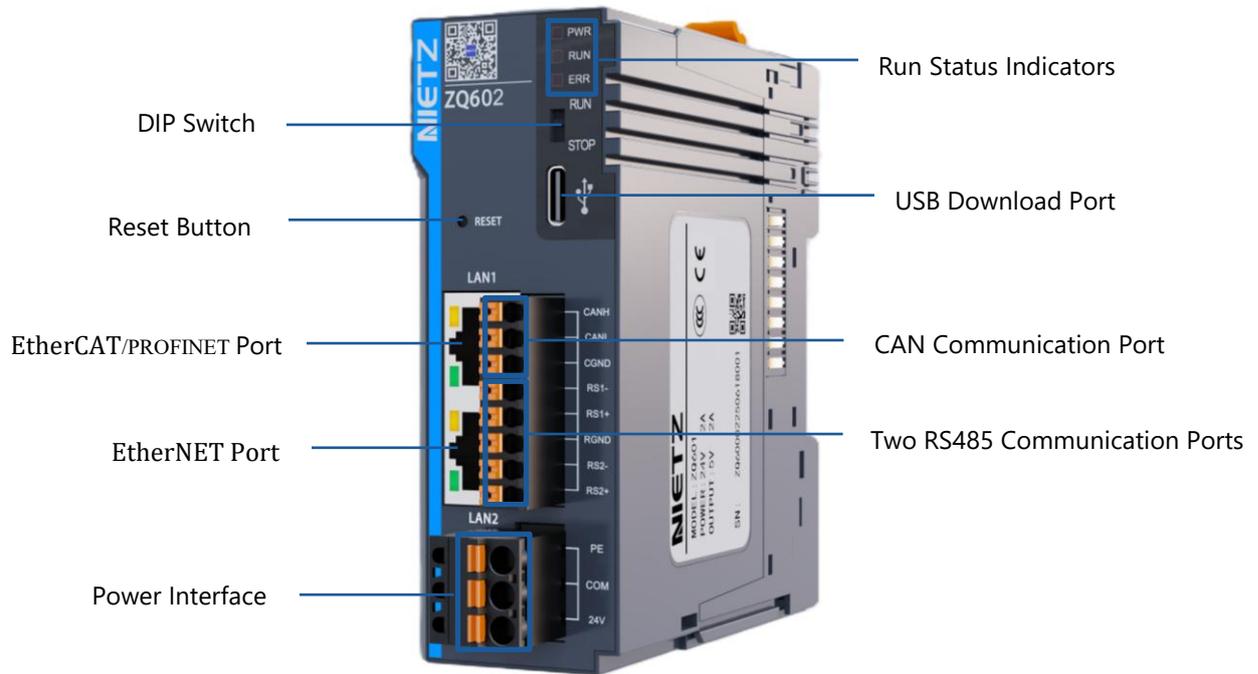
### 1.1.2 Nameplate Description



Model	Description	Full PN Code	Applicable Models
ZQ601	ZQ600 Series Single-core Motion Control Programmable Controller	45.02.0023	QY20 Series IO Modules
ZQ602	ZQ600 Series Dual-core Motion Control Programmable Controller	45.02.0002	



## 1.2 Component Description



No.	Name	Label	Definition	Component Description
1	Power Interface	PE	Functional Ground	
		COM	DC 24V Negative (-)	
		24V	DC 24V Positive (+)	
2	PLC Run Status Indicator Lights	PWR	Power Status	System power indicator light.
		RUN	Run Status	OFF: STOP state, PLC program not running. ON: PLC running state. Slow Flash (ON 500ms, OFF 500ms): Programming/download complete.
		ERR	Error Status	OFF: Running normally, no error. ON: Critical error occurred. Slow Flash (ON 500ms, OFF 500ms): Warning state (e.g., module configuration mismatch). Fast Flash (ON 100ms, OFF 100ms): Alarm state (e.g., slave station offline, low power voltage).
3	DIP Switch	RUN/STOP	Controls host start/stop	
4	Type-C Interface		PC Communication	Firmware upgrade, supports USB program download.
5	Reset Button	RESET		Restores factory defaults, resets IP to default values, deletes user programs.

No.	Name	Label	Definition	Component Description
6	EtherCAT /PROFINET Port	LAN1	Used for EtherCAT communication	Default acts as EtherCAT master, supports PROFINET Master and PROFINET Slave.
7	EtherNET Port	LAN2	Used for EtherNET communication	EtherNET port, can act as Modbus TCP, EtherNET/IP, OPC/UA, or TCP/UDP free protocol.
8	EtherCAT/ EtherNET Indicator Lights	Green Light	Speed	ON: 100/1000 Mbit/s connection. OFF: 1. 10 Mbit/s connection; 2. Not connected.
		Orange Light	Link/Act	ON: Connected. Blinking: Connected and data activity. OFF: Not connected.
9	RS485	RS1-	Channel 1 RS485 Signal +	Two RS485 interfaces.
		RS1+	Channel 1 RS485 Signal -	
		RGND	RS485 Common Ground	
		RS2-	Channel 2 RS485 Signal -	
		RS2+	Channel 2 RS485 Signal +	
10	CAN Interface	CANH	CAN Bus High-Level	Can implement CAN Master/CAN Slave, compatible with CAN 2.0 and CANopen.
		CANL	CAN Bus Low-Level	
		CGND	CAN Bus Common Ground	

## 1.3 Product Specifications

### 1.3.1 Basic Specifications

Item		Specification
Key Specification	Program Capacity	128MBytes
	Data Capacity	128 MBytes (including 1M Retentive Variables + 64K configurable M-device retention)
	EtherCAT	ZQ601:16 axes ZQ602:32 axes
	Axis Capabilities	1ms cycle 4-axis synchronization (execution time of motion control calculations)
	Motion Control	Electronic cam, electronic gear, interpolation
	Right Side Expansion	The main unit supports 32 QY20 series blade modules.
	Left Side Expansion	Functions including EtherCAT branch controller, Ethernet switch, high-speed pulse output, 4G/5G communication, and EtherCAT slave station (under development).
programming	Programming Language	IEC61131-3(ST、LD、SFC、CFC)
	Programming Software	CODESYS
communication	RS485	Locally integrated 2 channels
		Supports Master and Slave (built-in 120Ω termination resistor)
		Supports Modbus RTU protocol and free protocol
		Max. supports 31 slaves (distance of each slave stub < 3m)
		Supports baud rates : 4800/9600/19200/38400/57600/115200 kbit/s
	Digital Isolator Isolation	

Item		Specification
Communication	CAN Communication	Local unit has 1 channel (max. 127 slaves), supports CANopen and CAN free protocols
		Supports baud rates: 10/20/50/100/125/250/500/800/1000kbit/s
	USB Communication	USB Interface: Type-C
		Cannot supply power to PLC
		Supports downloading/monitoring user programs
	EtherCAT	Supports updating firmware for PLC and expansion modules
		Supports up to 127 slaves
PROFINET	Minimum synchronization cycle support 500us	
Communication	EtherNET	Supports Modbus-TCP Master/Slave: As master, supports 63 slaves; As slave, supports 16 masters
		OPC-UA Server, supports 16 clients
		TCP/UDP Free Protocol, supports 16 connections
		Supports EtherNET/IP Master/Slave: As master, supports 16 slaves; As slave, supports 16 masters
Protection Rating		IP20
Dimensions		Width × Height × Depth: 100 mm * 36 mm * 83.5 mm
Battery		CR2032 Coin Cell Battery (3V, battery capacity ≥ 210 mAh, Operating temp (-40°C ~ 85°C))

### 1.3.2 Power Specifications

Item	Specification
Terminal Input Voltage Rating	24V DC (-15%~+20%) , Isolated
Terminal Input Current Rating	Maximum 4A, Typical 2.4A, load includes host and local expansion modules
Inrush Current	Less than 10A during cold start at room temperature, duration less than 2ms
Bus Output Voltage Rating	5.2V DC (4.75V DC~5.5V DC)
Bus Output Current Rating	2A (Max value at 5.2V)
Bus 5V Output Protection	Supports short-circuit protection
24V Input Protection	Supports short-circuit protection and reverse connection protection
Module Hot-swap Function	Not Supported
Power-fall Detection Threshold	18V
Power-fall Hold-up Time	2s

## 2. Product Installation

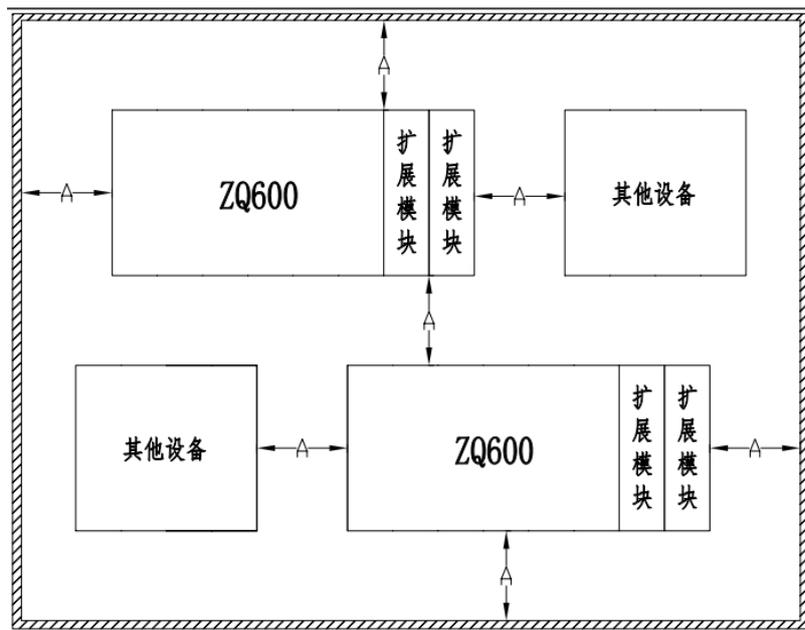
### 2.1 Installation Environment Requirements

When installing the programmable controller on a rail, it should be done based on full consideration of operability, maintainability, and environmental resistance.

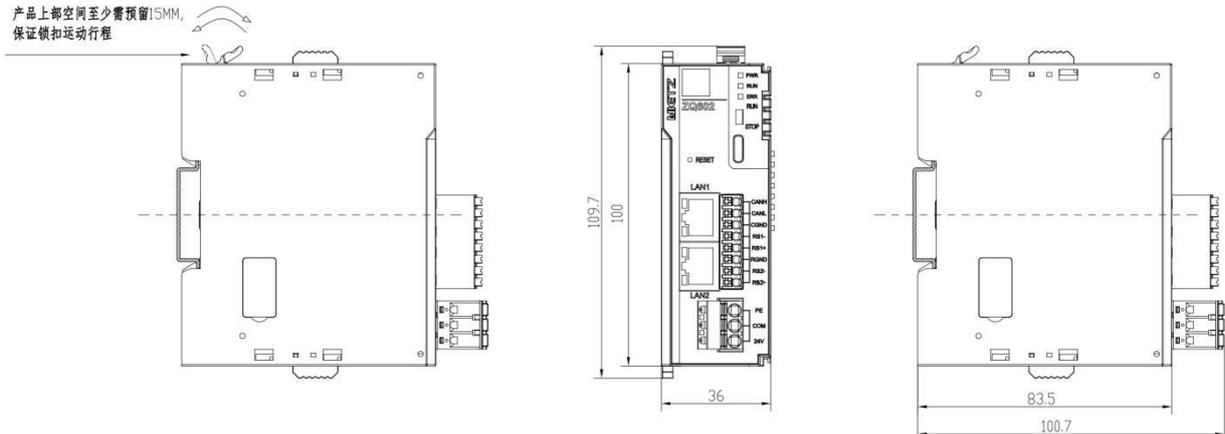
Item	Specification	
Usage Environment	Locations without corrosive or combustible gases, and where conductive dust is not significant	
Altitude	≤4000m	
Operating Temp/Humidity	Temperature	-30°C~60°C
	Humidity	10%RH~95%RH, non-condensing

### 2.2 Installation Location Requirements

This product's thermal dissipation is designed for natural convection. To ensure normal ventilation, heat dissipation, and reserve sufficient wiring space, a minimum clearance  $A$  ( $A > 50\text{ mm}$ ) must be maintained around this product, as shown below.



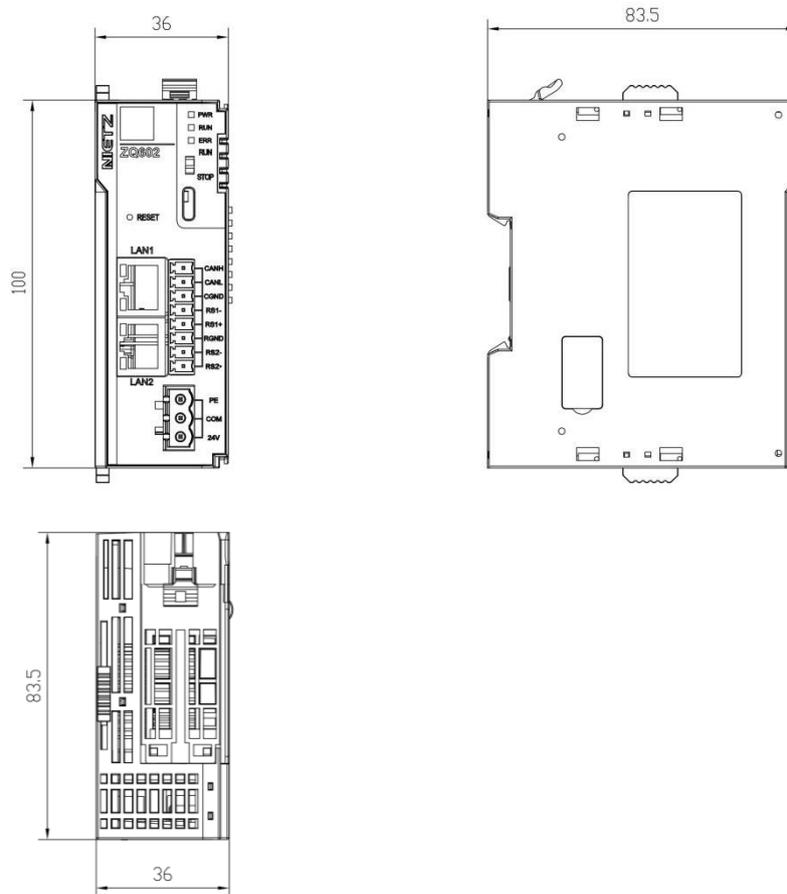
产品上部空间至少需预留15MM，  
保证锁扣运动行程



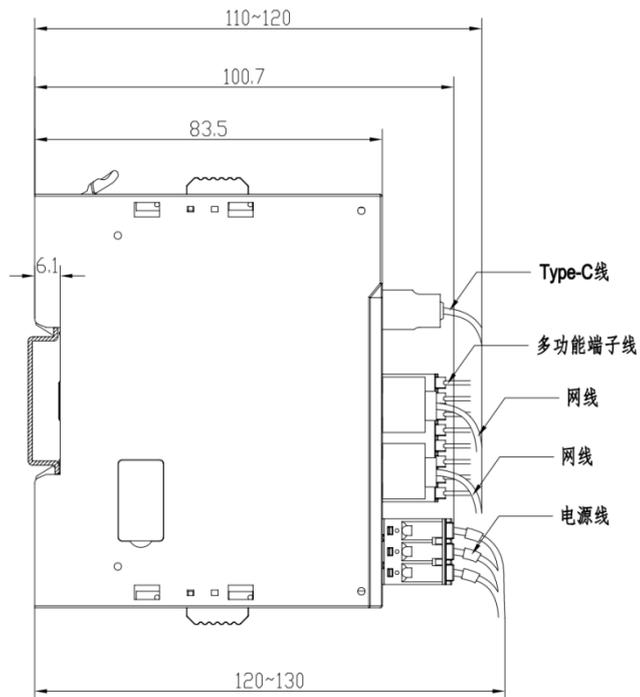


## 2.3 Installation Dimensions

Host dimensions are shown below, unit is millimeter (mm).



Host and cable dimension information is shown below, unit is millimeter (mm).



## 2.4 Installation Precautions

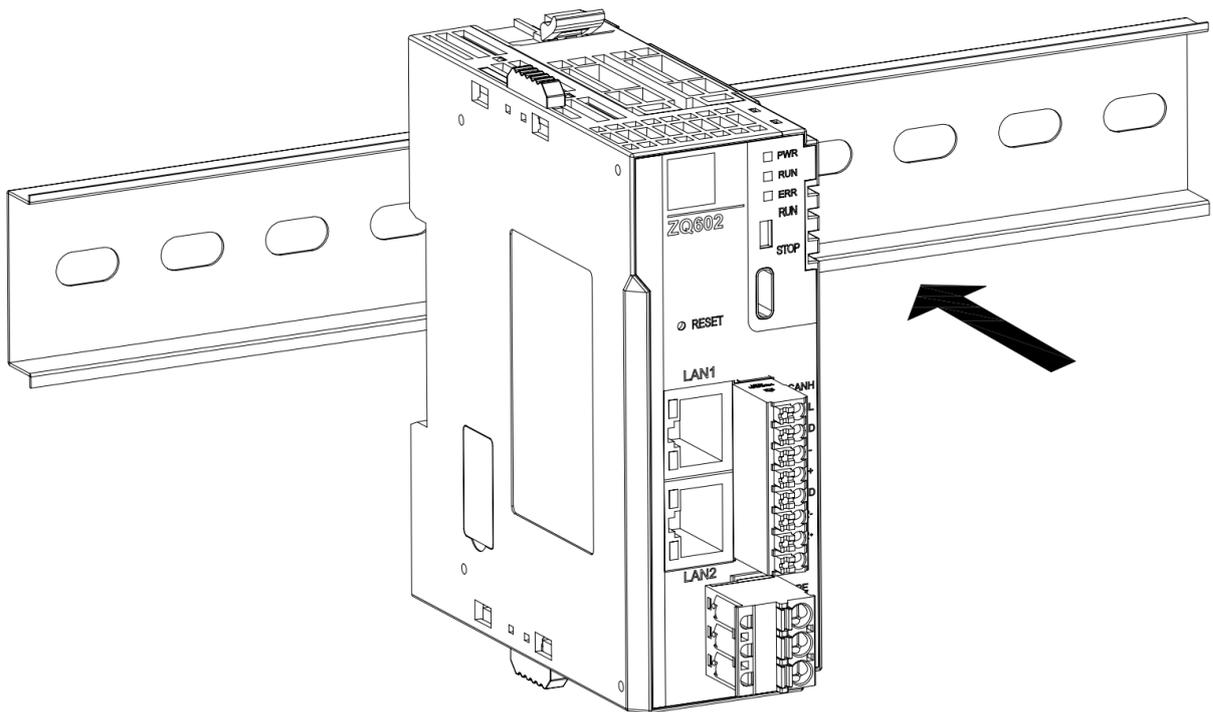
- Before installation, ensure the product is powered off.
- Avoid dropping or impacting the product's housing, terminal blocks, or connectors to prevent damage.
- Do not disassemble this product, as it may cause damage.
- Do not overtighten fasteners on this product, to avoid damaging the product and its terminals.

## 2.5 Installation Method

- Host Installation

During installation, lift the orange latch upwards to ensure the bottom latch is open.

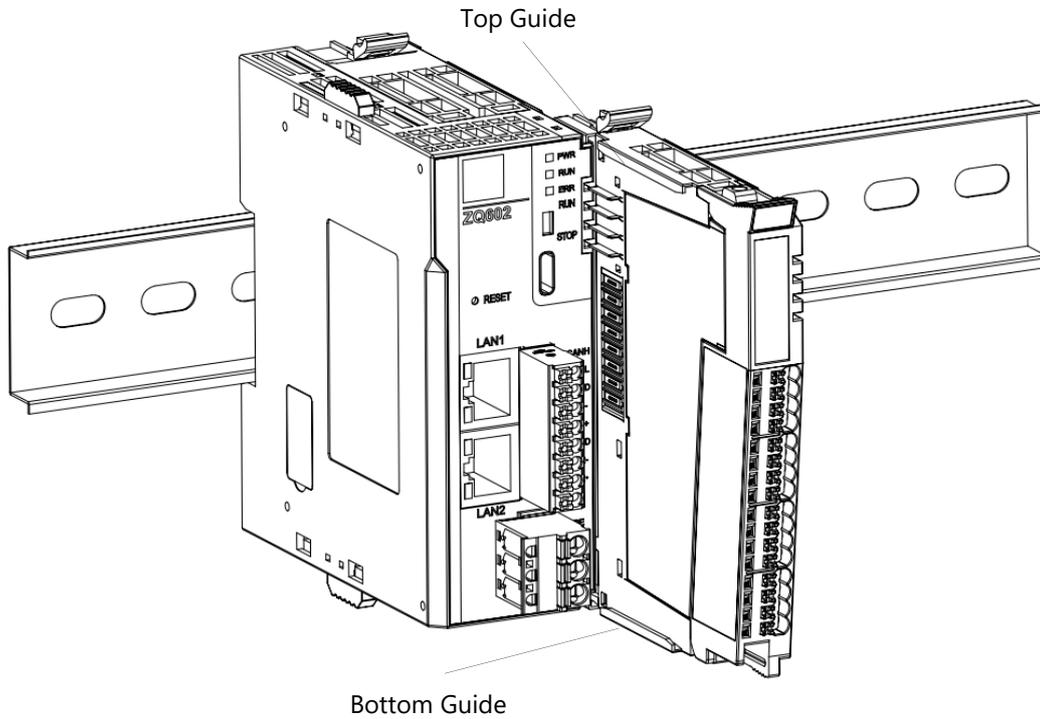
Align the host with the DIN rail and press the module in the direction indicated by the arrow, as shown below.



Press the latch down, release your hand, then gently shake to ensure the PLC is securely fastened onto the rail and will not fall off. Installation complete.

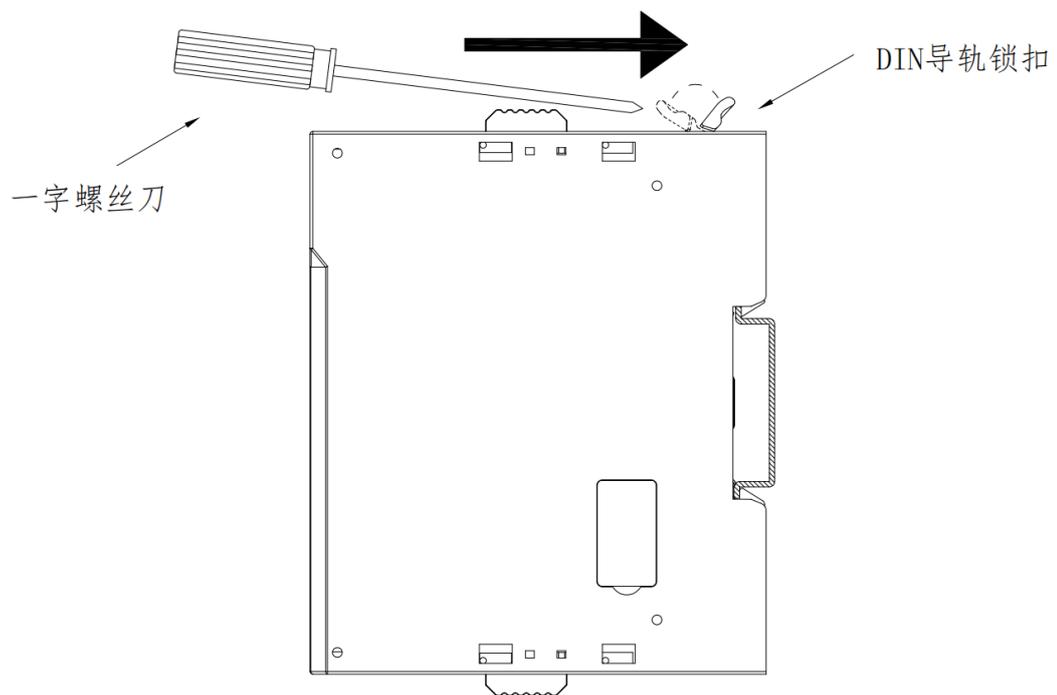
- Host and Module Assembly

Assembly between the host and modules is done by sliding along the top and bottom guides of the module, as shown below.



- Removal

Use a flathead screwdriver or similar tool to pry the rail lock in the direction of the arrow, then pull the module straight forward.



### 3. Communication Connection

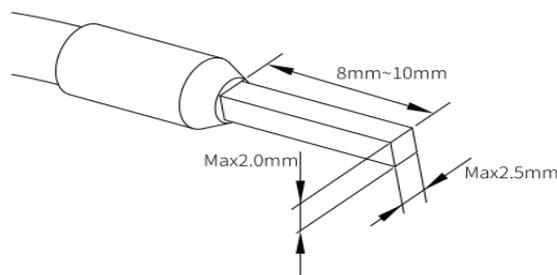
#### 3.1 Cable Selection

- Power Cables

Refer to the lug wire gauge table below for power terminal cables. Adjust reasonably based on actual usage calculations.

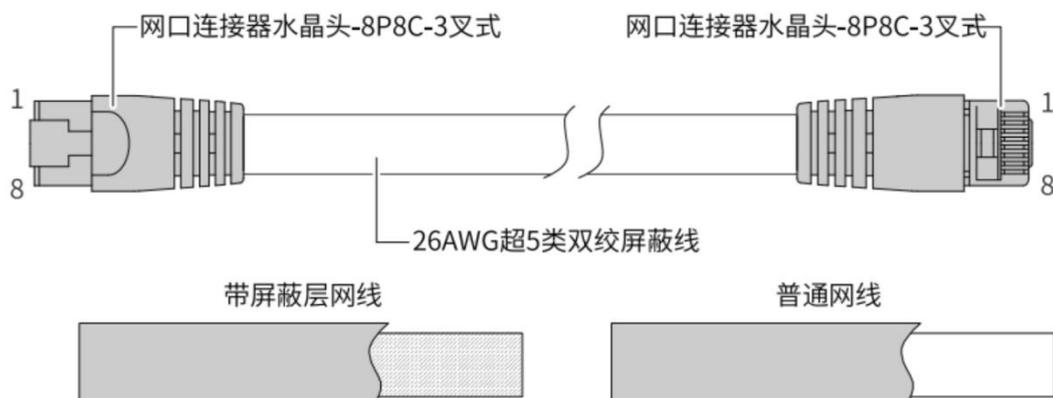
Matching Part Name	Suitable Wire Gauge	
	CN Standard /mm <sup>2</sup>	US Standard /AWG
Tubular Lug	0.3	22
	0.5	20
	0.75	18
	1.0	18
	1.5	16

If using other tubular lugs, crimp them onto stranded wires. Shape and dimension requirements are shown below.



- Communication Cables

EtherNET/EtherCAT communication has strict requirements for communication cables. Use Cat-5e grade or higher shielded network cables.



When using EtherCAT bus, the length of the cable between devices cannot exceed 100 meters. Exceeding this length will attenuate the signal and affect normal communication.

Passes 100% continuity test, no short circuits, open circuits, misalignment, or poor contact.

Recommended cable specifications:

Item	Specification
Cable Type	Flexible crossover cable, S-FTP, Cat-5e
Compliant Standards	EIA/TIA568A , EN50173 , ISO/IEC11801 EIA/TI Abulletin TSB , EIA/TIA SB40-A&TSB36
Conductor Cross-section	AWG26
Conductor Type	Twisted Pair
Pairs	4

## 3.2 Cable Connection

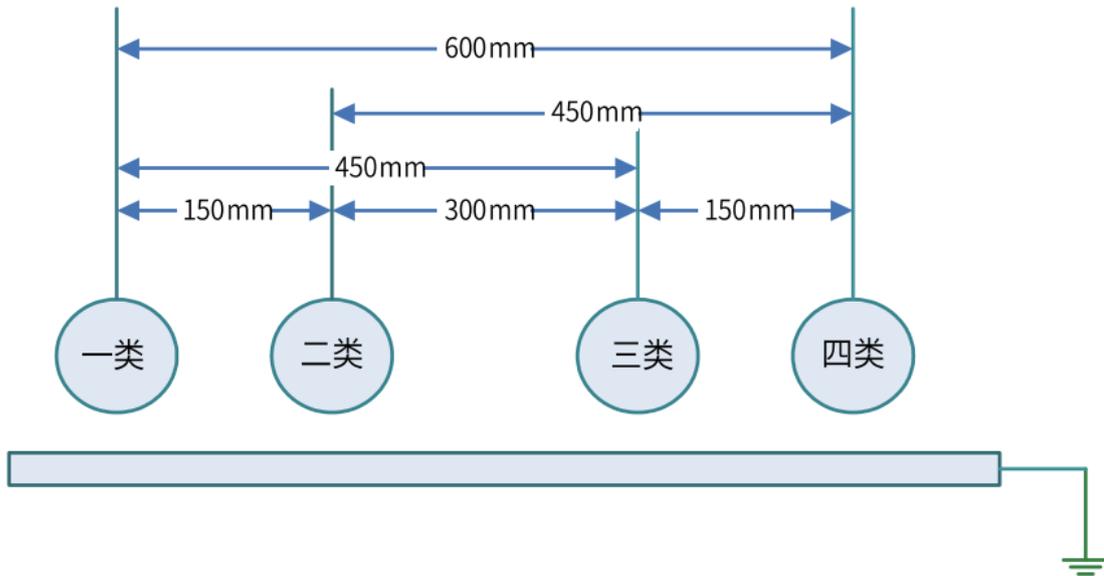
### 3.2.1 Grounding

For methods involving soldering the shield of a shielded cable to a PVC wire and grounding through its tip, this increases high-frequency impedance-frequency impedance, weakening the shielding effect and should be avoided where possible. Shielded wires for communication signal cables need grounding at BOTH ends.

Low-voltage cables (<1 KV) are generally classified into four categories. Only cables of the same category can be placed together to form a cable bundle. Different categories of cables should be separated during routing and generally should not cross over each other. When crossing is unavoidable, use right-angle crossing.

No.	category	Application Object
1	Category I	Ethernet ports, EtherCAT ports
2	Category II	Low-speed digital signals (RS232, RS485, etc.) and Digital I/O Signals
3	Category III	Low-voltage AC distribution lines or DC power lines (e.g., DC 24V output from switching power supplies)
4	Category IV	Input/output cables, welding machine cables, power converter power cables

Different types of cables require a certain separation distance. For cables shorter than 30m, the minimum allowable spacing is shown below.



#### Note

- When the parallel cabling length increases, the spacing should be increased appropriately.
- Besides maintaining distance, adding multiple joined shielding plates between different cable types can achieve isolation. To minimize crosstalk interference, all cables should be routed as close as possible to structural components connected to the cabinet ground (grounded), e.g., mounting plate or frame members.

### 3.2.2 Connecting Power Lines

The 24V input power terminals feature a push-in design for easy wiring. Align the power wires and insert directly into the 24V input power terminals.

#### Note

- To remove, press the orange spring tab next to the 24V input power terminal and pull the power cord out.

### 3.3 Ethernet Communication Description

EtherNET and EtherCAT interfaces use RJ45 connectors for convenient connection.

Pinch the RJ45 connector, align it directly with the EtherNET/EtherCAT interface and insert until a 'click' sound is heard.

Pin	Signal (Ethernet 1000 Mbit/s)	Direction	Description
1	TD+	Output	Data transmission+
2	TD-	Output	Data transmission-
3	RD+	Input	Data reception+
4	-(DC+)	-( Two-way)	Do not use (Data C+)
5	-(DC-)	-( Two-way)	Do not use (Data C-)

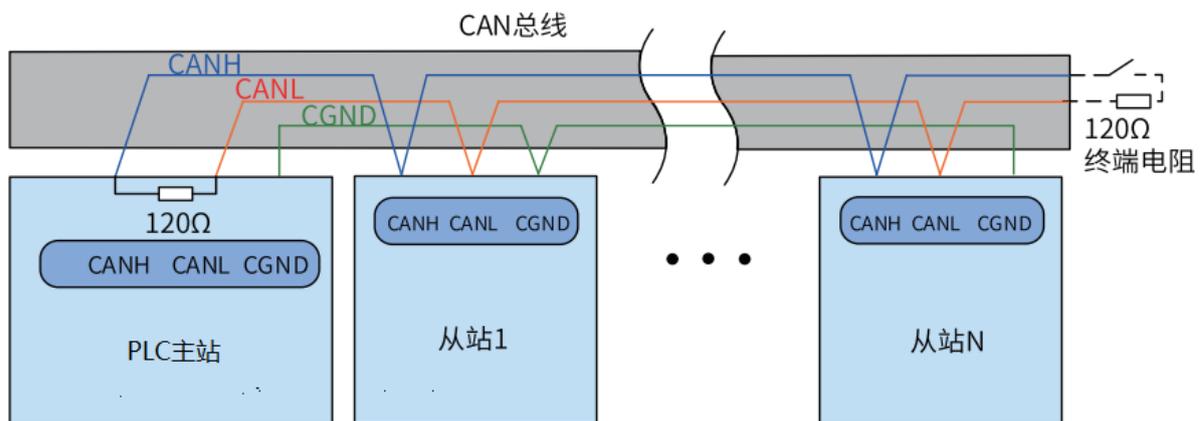
Pin	Signal (Ethernet 1000 Mbit/s)	Direction	Description
6	RD-	Input	Data reception
7	-(DD+)	-(Two-way)	Do not use (Data D+)
8	-(DD-)	-(Two-way)	Do not use (Data D-)

#### Note

- To unplug, hold the tab at the rear of the RJ45 connector flat and pull out horizontally.

### 3.4 CAN Communication Description

When forming a CAN network, all three wires from every device must be connected correspondingly. Both ends of the CAN bus need 120Ω matching resistors. The PLC body comes with termination resistors. The CAN bus network topology is shown below.



Relationship between supported CAN baud rates and communication distance: see table below.

Baud Rate (kbit/s)	Communication distance (m)
1000	20
500	80
250	150
125	300
100	500
50	1000

CAN communication terminals use a push-in design for easy wiring.

Align the communication wires communication wires and insert directly into the CAN communication terminals.

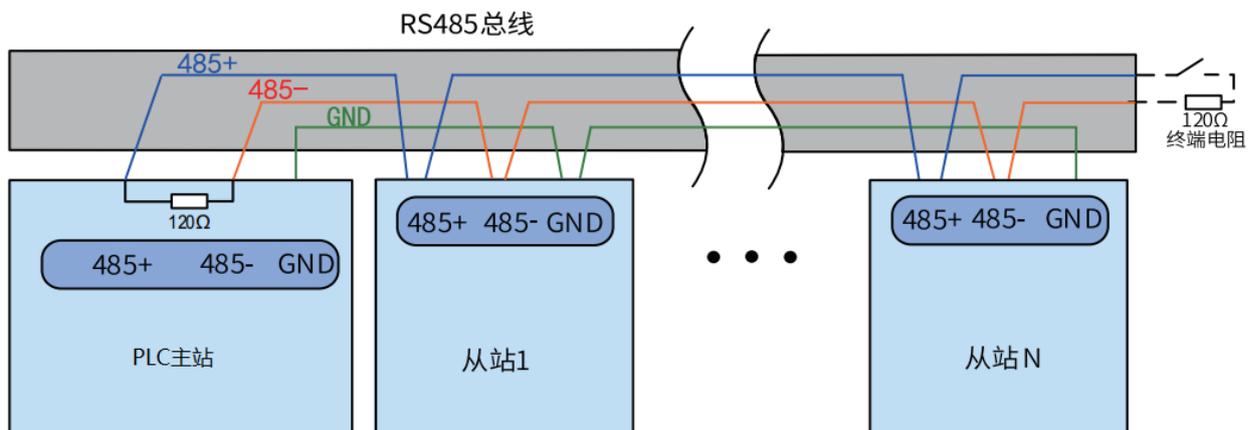
**Note**

- To unplug, press the orange spring tab next to the CAN communication terminal and pull out the CAN communication wire.

**3.5 RS485 Communication Description**

It is recommended to use shielded twisted pair (STP) cable for RS485 bus connections; Connect 485+, 485- using twisted pairs; Connect 120Ω termination matching resistors at each end of the bus to prevent signal reflection; Connect the reference grounds of all node 485 signals together; Max 31 nodes connectable, distance of each node spur must be less than 3m.

The PLC comes with termination resistors. The RS485 bus network topology is shown below.



RS485 communication terminals use a push-in design for easy wiring.

Align the communication wires and insert directly into the RS485 communication terminals.

**Note**

To unplug, press the orange spring tab next to the RS485 communication terminal and pull out the RS485 communication wire.

## **4. Operation and Maintenance**

### **4.1 Start and Stop Operations**

After writing the program to the PLC, please follow the steps below for start/stop operations.

When system needs to run after writing program with PLC in STOP state:

1. Set the system to RUN mode.
2. Confirm the RUN indicator is steadily lit.
3. To stop operation, set the system to STOP state, or stop through the upper computer background.

### **4.2 Updating Firmware via Type-C**

#### **Prerequisites**

Contact engineer to obtain firmware file(s).

#### **Procedure**

1. Connect the device via Type-C.
2. Open the ZCProLoader PC software.
3. Specific operations detailed in the ZQ600 Use Manual.

## Appendix

### Related Product Models Ordering Index

Code	Model	Description
<b>CPU: ZQ600 Series PLC</b>		
45.02.0023	ZQ601	Mid-size PLC Main Control Module
45.02.0002	ZQ602	Mid-size PLC Main Control Module
<b>QY20 Series Coupler Modules</b>		
45.02.0001	QY20-ECT	EtherCAT Bus Coupler
45.02.0007	QY20-PN	PROFINET Bus Coupler
45.02.0020	QY20-CCT	CC-Link IE TSN Bus Coupler
<b>QY20 Series IO Modules</b>		
45.02.0006	QY20-0016P	16-channel Digital Output Module, PNP
45.02.0004	QY20-0016N	16-channel Digital Output Module, NPN
45.02.0003	QY20-1600P	16-channel Digital Input Module, PNP
45.02.0005	QY20-1600N	16-channel Digital Input Module, NPN
45.02.0013	QY20-0808P	8-channel Digital Input + 8-channel Digital Output, PNP
45.02.0019	QY20-0808N	8-channel Digital Input + 8-channel Digital Output, NPN
45.02.0008	QY20-4AD	4-channel Analog Input Module (16-bit), ±10V/0~10V/±5V/0~5V/1~5V/0~20mA/4~20mA
45.02.0009	QY20-4DA	4-channel Analog Output Module (16-bit), ±10V/0~10V/±5V/0~5V/1~5V/0~20mA/4~20mA
45.02.0014	QY20-8AI	8-channel Analog Input Module Current Type (16-bit), 0~20mA/4~20mA
45.02.0011	QY20-8AV	8-channel Analog Input Module Voltage Type (16-bit), ±10V/0~10V/±5V/0~5V/1~5V
45.02.0012	QY20-8AI-L	8-channel Analog Input Module Current Type (12-bit), 0~20mA/4~20mA
45.02.0021	QY20-8AV-L	8-channel Analog Input Module Voltage Type (12-bit), 0~10V/0~5V/1~5V
45.02.0015	QY20-4PT	4-channel RTD Temperature Detection Module, PT100, PT500, PT1000, CU100, KTY84, NTC5K, NTC10K
45.02.0016	QY20-4TC	4-channel Thermocouple Temperature Detection Module, B, E, N, J, K, R, S, T
45.02.0017	QY20-2HC	2-channel Encoder High-Speed Counter Module, 5V Differential or 24V Single-ended
45.02.0018	QY20-4PO	4-channel Pulse Output Module, 24V NPN type
45.02.0022	QY20-PS	Intermediate Power Intermediate Power Supply Module, 5V 2A

