

Programmable Logic Controller

Industrial Automation Trusted Provider

 Intelligent Control
Product Manuals

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ABOUT NIETZ

Nietz Electric Co., Ltd. is located in Shanghai, China. It is a high-tech enterprise focusing on the research and development, manufacturing and sales of PLC and industrial automation control. It has a modern factory building of 27,000m² and is one of the most powerful global suppliers of industrial automation equipment.

Since its establishment, the company has always taken technological innovation as its core driving force and has been deeply involved in the field of industrial control. At present, it has formed a complete product system covering simple PLC, operation and control PLC, bus PLC and coupler, IO module and functional module. Among them, PLC products adopt modular design, integrate high-speed computing, multi-axis control, network communication and other functions, support Modbus, CANopen and other industrial protocols, and can accurately realize complex logic control and data interaction. With the advantages of stable performance and strong compatibility, the company's solutions are widely used in intelligent transformation of automated production lines, intelligent warehousing and logistics, energy and environmental protection equipment, as well as special equipment such as printing equipment and textile machinery. With the vision of "becoming a leader in industrial automation", the company continues to provide manufacturing customers with integrated industrial control solutions from hardware to software to promote the automation and digital upgrade of the industry.



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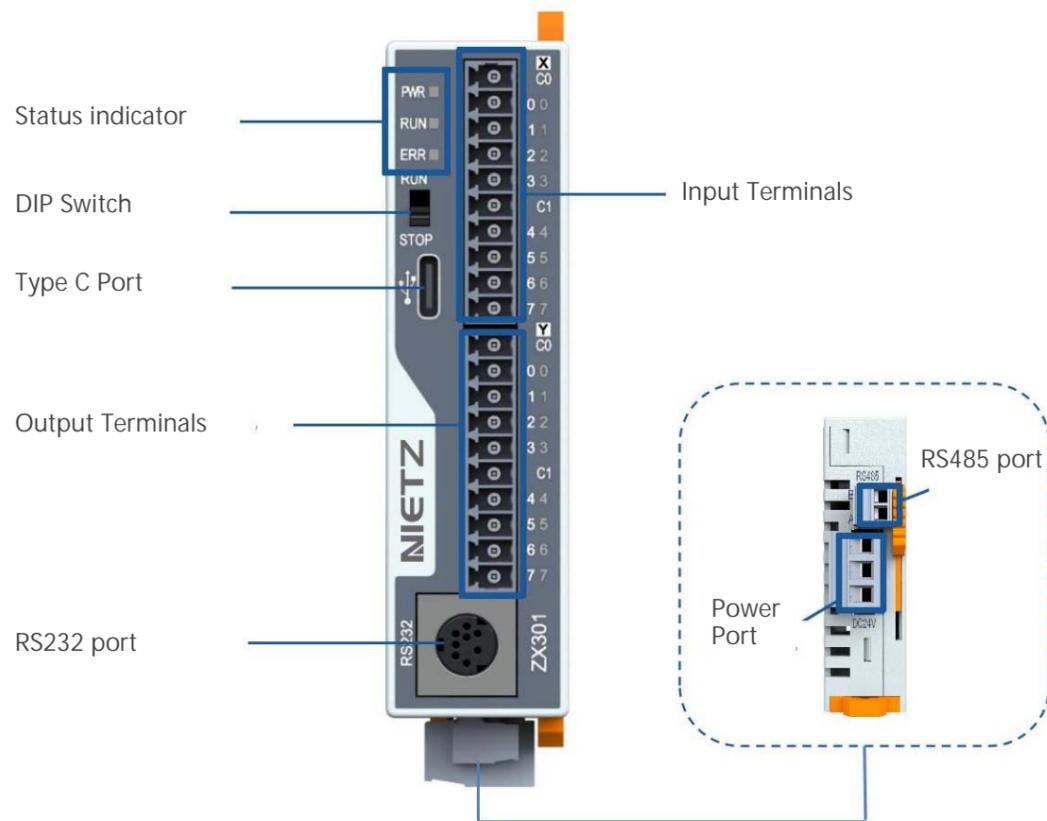
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ZX300 Series PLC



Products Feature

The ZX300 series PLC is a small PLC system launched by Nietz in response to market demand. Designed to be compatible with the Mitsubishi FX3U series, it features the in-house developed ZX Works programming system (under development, with future support). It supports ladder diagram programming and can implement functions such as pulse commands. It is primarily used for general logic control and, in conjunction with our inverters and pulse servos, can implement logic control and simple motion control. Supporting Modbus RTU communication, it can connect to slave devices such as sensors and inverters via the Modbus bus protocol, enabling data exchange with human-machine interfaces (HMIs).

Advantage

Diversified function control

- The 301 supports up to 4 high-speed pulse outputs and 4 single-phase high-speed input counters, or 1 AB phase + 2 single-phase high-speed counting inputs.
- The 305 supports up to 5 channels of high-speed pulse output: the first 2 channels at 200kHz and the last 3 channels at 100kHz; it also supports 2 channels of AB-phase high-speed counting or 3 channels of single-phase high-speed counting.

Rich instruction set

- A 64,000-step program storage unit and 16K of power-off retained data meet the needs of most logic control requirements.
- RS232 communication port: supports Modbus RTU master-slave communication; supports downloading and monitoring user programs
- RS485 communication port: Supports Modbus RTU master-slave communication; ZX305 and ZX351 support RS485 download of monitoring programs.
- Type-C communication port: Supports Type-C download and monitoring. (User program)

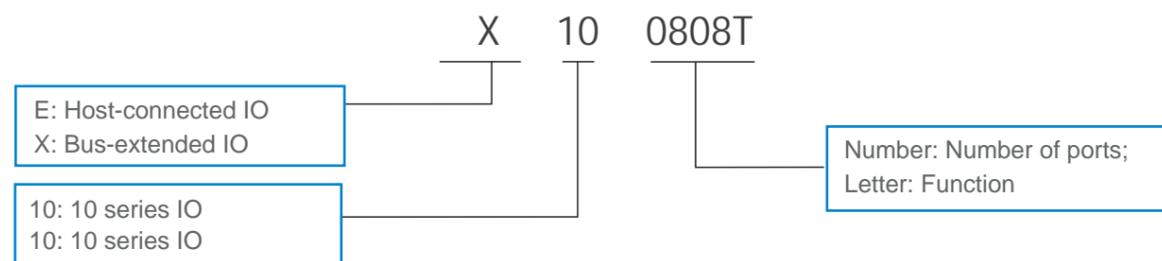
Rich instruction set

- Self-developed programming environment ZxWorks, easy to use and convenient to program
- Compatible with Mitsubishi programming software, similar to most small PLC programming instructions
- The ZX301 and ZX305 support both the X10 and E10 series expansion modules, while the ZX305 supports the E15 series expansion modules.
- The ZX301 supports up to 12 X10 series expansion modules and 1 E10 series expansion module (E10 series modules are limited to the first one on the right). The ZX305 supports up to 1 E15 series expansion module (E15 series modules are limited to the first one on the right) or 1 E10 series expansion module (E10 series modules are limited to the first one on the right).

PLC Model

Model	ZX301-0808T	ZX301-0806R	ZX301-0808F	ZX305-0808F
Product image				
Input Power	DC24V±10%, maximum 4A, typical 2.4A Support short circuit/reverse connection protection, no external UPS required			
Data/storage capacity	128K or 64,000-step program storage unit and 4K power failure-retaining data capacity			
High-speed counting	Single-ended 4-channel high-speed counting (100K) or AB phase 2-channel high-speed counting (100K)		Single-ended 4-way high-speed counting (100K) or AB phase 1-way+single-ended 2-channel high-speed counting(100K)	Single-ended 3-way high-speed counter (100K) or AB-phase 2-way high-speed counter (100K)
Input and Output	The main unit has 8 inputs and 8 outputs (including high-speed inputs and outputs).	The main unit features 8 inputs and 6 relay outputs (including high-speed inputs).	The main unit has 8 inputs and 8 outputs (including high-speed inputs and outputs).	
Pulse output	2 high-speed outputs (100K)	Relay output	4 high-speed outputs (100K)	5 high-speed outputs (100K)
Program execution mode	Cyclic scanning, parsing and execution			
Power-off retention	1s			
Communication	1 way RS232; 1 way RS485			
RUN/STOP	Supports PLC RUN/STOP Control			
Expansion Modules	E10 series (Directly connect to PLC, max 1 unit) X10 series (Modbus connect to PLC, max. 12 units)		E10 series/E15 series (direct connection to host, max 1 unit); X10 series (communication connection to host,max 12 unit).	
Prog. SoftWare	Zx Works, Mitsubishi Gx Works2			
Modbus communication	Support Modbus RTU communication			
USB communication	The Type-C interface can realize program download, monitoring, debugging, and firmware update.			

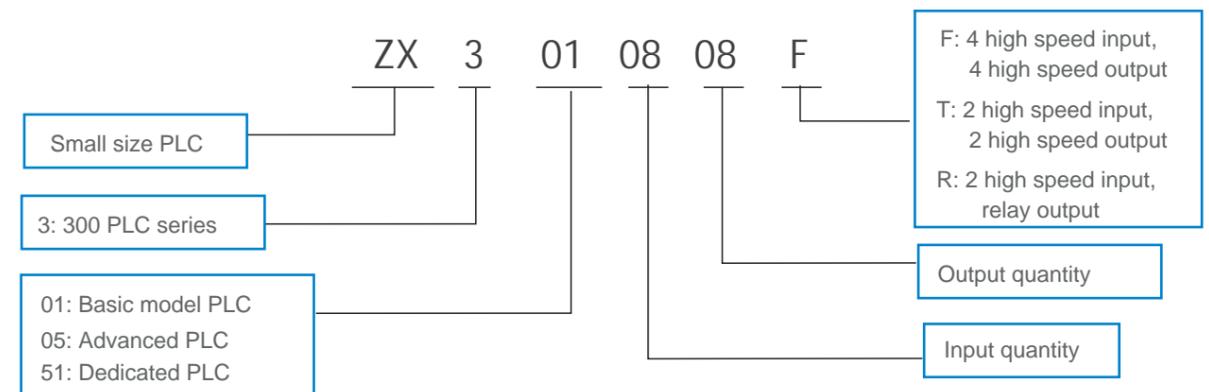
Expansion Module Code



PLC designed for Grinding Machine

Model	ZX351
Product image	
Input Power	DC 24V±20%, maximum 4A, typical 2.4A, supports short-circuit and reverse polarity protection, no external UPS required.
Data/storage capacity	128K or 64,000-step program memory capacity and 4K non-volatile data storage capacity.
High-speed counting	Single-ended 3-channel high-speed counting (100K) or AB phase 2-channel high-speed counting (100K)
Input and Output	The main unit has 8 inputs and 8 outputs (including high-speed inputs and outputs).
Pulse output	5-channel high-speed output (2 channels at 200Kbps, 3 channels at 100Kbps)
Power-off retention	1s
Communication	1 RS232 port; 1 RS485 port
RUN/STOP	It can realize the operation of PLC start/stop.
RUN/STOP	The ZX351 is a PLC controller specifically designed for tool grinding machines. It is deeply adapted to multi-tool 3 precision grinding scenarios, fully supporting grinding processes for various tools such as end mills, ball nose cutters, chamfering cutters, and ball end mills. Its core advantages lie in its ability to achieve multi-axis coordinated interpolation motion, precisely controlling the grinding path and accuracy; and its integrated Modbus communication interface, facilitating system integration and data transmission.

Products Code



Expansion Modules

Host direct type

Model	E10-0808T	E10-0808R
Product image		
Interface	8-channel DI and 8-channel DO/NPN sink output	8-channel DI and 4 groups of 8-channel relay outputs
Parameter	Isolation method: Optocoupler isolation Rated voltage: 24VDC+20% Current consumption: Single point max. 0.3A	Isolation: Optocoupler/Relay Rated voltage: 24VDC+20% Current Consumption: Maximum 5A per point Output: AC 250V/DC 30V 5A

Model	E15-USB	E15-0808U	E15-2SCOM
Product image			
Interface	Supports downloading programs via USB flash drive (firmware upgrades will be supported in the future).	8-input 8-output transistor NPN type output; supports USB flash drive program download and firmware upgrade.	2-way serial communication expansion module and firmware upgrade.
Parameter	USB 2.0: Supports FAT32 format	Isolation method: Optocoupler isolation Rated voltage: 24VDC+20% Current Consumption: Maximum 0.3A per point USB20: Supports FAT/FAT32 format	1-channel RS485 communication; 1 channel can be configured for RS485 or RS232 communication.

Analog type

Model	X10-0402A	X10-2A2P	X10-4AD
Product image			
Interface	4 analog inputs, 2 analog outputs	2 analog inputs, 2 RTD inputs	4-way analog input compatible with analog current and voltage.
Parameter	Input: 0~10V, 0~20mA Input Precision: 12-bit ±5% Output: 0~10V, 0~20mA Output Precision: 16-bit ±0.3%	Input: 0~10V, 0~20mA Input Accuracy: 12-bit ±3% RTD Type: Pt100, Pt500, Pt1000, Cu100, KTY84, NTC5K, NTC10K	Input: 0~10V, 0~20mA Input precision: 16-bit ±0.3%

Model	X10-8AD	X10-4DA	X10-8DA
Product image			
Interface	8 analog inputs, compatible with analog current and voltage inputs.	4-channel analog output compatible with analog current and voltage.	8-channel analog output compatible with analog current and voltage.
Parameter	Input: 0~10V, 0~20mA Input Precision: 16-bit ±5%	Input power supply: 24VDC (±20%) 30mA Input/output characteristics: -10V~10V, 0~10V, -5~5V, 0~5V, 1~5V, 0~20mA, 4~20mA Measurement accuracy: 25: Full scale ±0.3% (-10V~10V full scale); -20~55: Full scale ±0.5% (-10V~10V full scale)	Input power supply: 24VDC (±20%) 30mA Input/output characteristics: -10V~10V, 0~10V, -5~5V, 0~5V, 1~5V, 0~20mA, 4~20mA Measurement accuracy: 25: Full scale ±0.3% (-10V~10V full scale); -20~55: Full scale ±0.5% (-10V~10V full scale)

Thermocouple, resistance thermometer type

Model	X10-4TC	X10-8TC	X10-4PT
Product image			
Interface	4-way thermocouple data acquisition	8-way thermocouple data acquisition	4-way/3-wire RTD acquisition
Parameter	Thermocouple types: B,E,N,J,K,R,S,T	Thermocouple types: B,E,N,J,K,R,S,T	Resistance temperature detector (RTD) types: Pt100, Pt500, Pt1000, Cu100, KTY84, NTC5K, NTC10K

Digital type

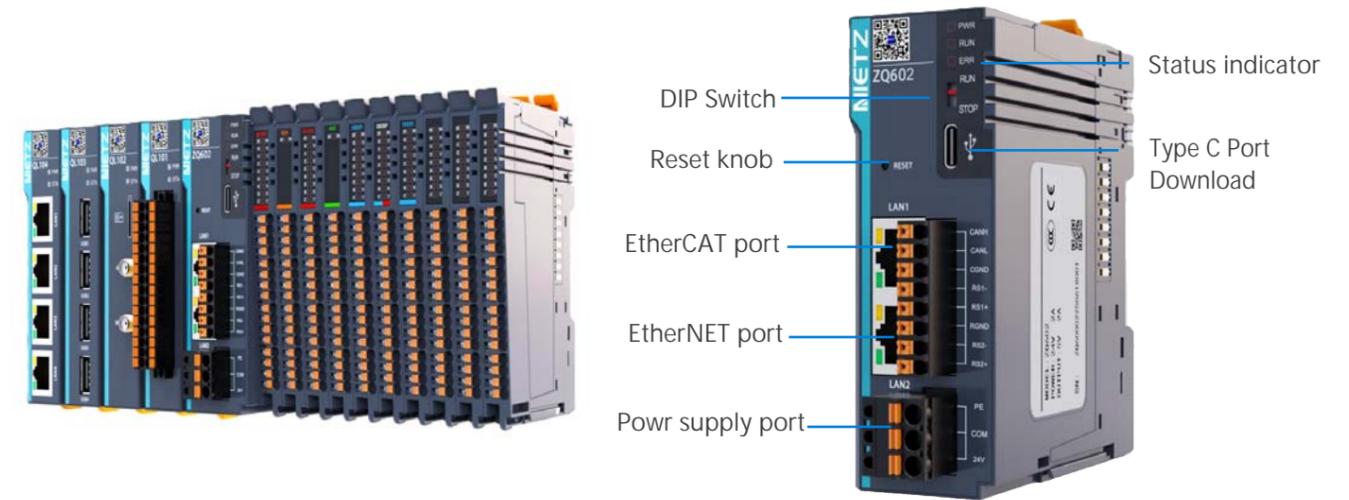
Model	X10-0808T	X10-0008T	X10-0800T	X10-1600T
Product image				
Interface	8-channel DI and 8-channel DO, NPN type sinking output	8-way transistor output, NPN type sinking output	8-way transistor input, NPN/PNP compatible	16 digital inputs, compatible with NPN/PNP
Parameter	Isolation method: Optocoupler isolation Rated voltage: 24VDC+20% Current Consumption: Maximum 0.3A per point	Isolation method: Optocoupler isolation/relay isolation Rated voltage: 24VDC+20% Current Consumption: Maximum 0.3A per point	Isolation method: Optocoupler isolation/relay isolation Rated voltage: 24VDC+20% Current Consumption: Maximum 0.3A per point	Isolation method: Optocoupler isolation/relay isolation Rated voltage: 24VDC+20% Current Consumption: Maximum 0.3A per point

Model	X10-0808R	X10-0008R	X10-0016N
Product image			
Interface	8-channel DI and 8-channel relay output	8-channel relay output	16-channel digital output, NPN type
Parameter	Isolation method: Optocoupler isolation/relay isolation Rated voltage: 24VDC+20% Current Consumption: Maximum 5A per point	Rated voltage: 24VDC+20% Current Consumption: Maximum 5A per point	Input power supply: 24VDC+20% Output characteristics: 30mA single channel 500mA, suitable for resistive loads, inductive loads, and lamp loads.

How to Order

Code	Model	Description
45.01.0001	ZX301-0808F	Supports 8-channel DI, 8-channel DO (4 high-speed inputs, 4 high-speed outputs), supports RS232 and RS485 communication, with expandable modules on the right-hand side.
45.01.0011	ZX301-0808T	Supports 8-channel DI, 8-channel DO (2 high-speed inputs, 2 high-speed outputs), supports RS232 and RS485 communication, with expandable modules on the right-hand side.
45.01.0009	ZX301-0806R	Supports 8 digital inputs, 6 relays (including 2 high-speed inputs), with RS232 and RS485 communication capabilities. Right-hand side accommodates expandable modules.
45.01.0022	ZX305-0808F	Supports 8 inputs and 8 outputs (2-channel AB/3-channel single-ended inputs, 5 high-speed outputs), supports RS232 and RS485 communication, with expandable modules on the right-hand side.
45.01.0023	ZX351	Supports 8 inputs and 8 outputs (transistor), comprising 2-channel AB-follower/3-channel single-ended inputs and 5 high-speed outputs.
45.01.0002	E10-0808T	8-channel digital input, 8-channel digital output/NPN sink type
45.01.0003	E10-0808R	8-channel digital input, 8-channel relay output
45.01.0024	E15-USB	Compatible with the ZX305 module, supporting USB flash drive programme downloads and firmware updates.
45.01.0025	E15-0808U	Compatible with ZX305 module, E-expansion 8-input 8-output transistor NPN open-drain type, supporting USB flash drive programme download and firmware updates.
45.01.0026	E15-2SCOM	Compatible with ZX305 module, 2-channel serial communication expansion module
45.01.0007	X10-0808T	8-channel DI, 8-channel DO/NPN-type drain-type output
45.01.0016	X10-0008T	8-channel transistor output
45.01.0017	X10-0800T	8-channel transistor input
45.01.0018	X10-1600T	16-channel digital input, compatible with NPN/PNP
45.01.0004	X10-0808R	8-channel digital input, 8-channel relay output
45.01.0015	X10-0008R	8-channel relay output
45.01.0019	X10-0016N	16-channel digital output, NPN type
45.01.0005	X10-0402A	4 analogue inputs, 2 analogue outputs
45.01.0020	X10-2A2P	2 analogue inputs, 2 thermoresistor inputs
45.01.0014	X10-4AD	4-channel analogue inputs compatible with analogue current and voltage signals
45.01.0021	X10-8AD	8-channel analogue input, compatible with analogue current and voltage signals
45.01.0028	X10-4DA	4-channel analogue output, compatible with analogue current and voltage signals
45.01.0027	X10-8DA	8-channel analogue output, compatible with analogue current and voltage signals
45.01.0006	X10-4PT	4-channel thermoresistor input, 2-wire/3-wire
45.01.0012	X10-4TC	4-channel thermocouple input/2-wire
45.01.0013	X10-8TC	8-channel thermocouple acquisition

ZQ600 Series PLC



Model		ZQ601	ZQ602
Input Power		DC24V±10%, maximum 4A, typical 2.4A, supports short circuit/reverse connection protection, no external UPS required	
Memory		4G	
Data/storage capacity		128M program capacity, 128M data capacity (1M power-off retention space + 64K M device power-off retention)	
Communication specifications	EtherCAT	1 channel, support expansion	
	Modbus RTU	2 channels	
	CAN communication	The main unit has 1 CAN channel (maximum 8 slaves), supporting CANopen and CAN free protocols	
	USB communication	Support	
EtherCAT Communication	EtherCAT Axes	16+16	32+32
	EtherCAT slaves	Support up to 256	
	Communication cycle	2ms 4-axis synchronization	1ms 4-axis synchronization
ProfiNET Communication		Support ProfiNET master-slave	
Scalability	Right expansion	The main unit supports 32 QY20 series blade modules	
	Left expansion	EtherCAT redundancy, EtherCAT splitter, 4-way routing, high-speed pulse, 4G/5G, remote debugging and monitoring, MQTT cloud, EtherCAT slave and other functions (under development)	
RUN/STOP		Can realize PLC stop/run	
RESET	Factory Reset	Clear the user program and restore the initial IP address	
Programmin language		IEC61131-3	

Products Feature

ZQ600 series is a high-performance, mid-range PLC from NIETZ Technology. Designed and developed in full compliance with PLC open specifications and IEC 61131-3, it supports programming languages such as ST, LD, SFC, and CFC. It boasts powerful CPU performance, stable and reliable software and hardware system design, extensive expansion capabilities, a compact size, and modularity. It is primarily used in motion control scenarios and complex production line networking, and is particularly well-suited for multi-channel servo control and multi-bus protocol integration.

Advantage

Powerful software and hardware configuration

- Dual-core processor, 1.4GHz main frequency, nanosecond instruction processing speed
- 128M Byte program capacity, 128M Byte data capacity (1M Byte supports power-off retention variables and 64K M device memory), data preservation during power outages without the need for an external UPS module
- The main unit can be expanded to 32 QY20 series IO modules, supporting DI, DO, AD, DA, PT, TC, PO, HC, and other modules

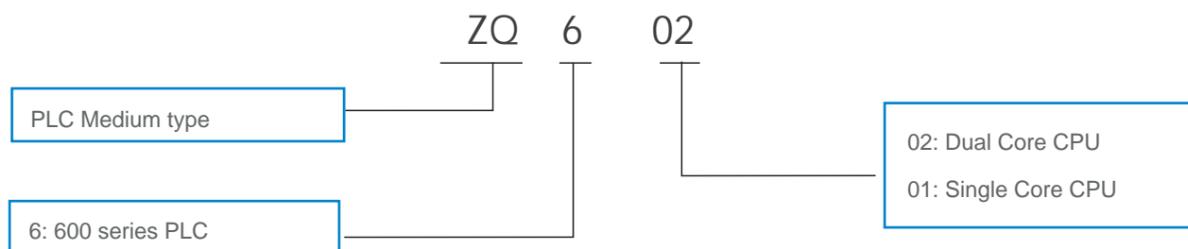
Rich communication interfaces

- Supports two Ethernet ports, LAN1 of which can be configured as an EtherCAT master or PROFINET master/slave. When used as EtherCAT, it supports up to 64-axis control and can connect 256 EtherCAT slaves. LAN1 and LAN2 each support 63 Modbus TCP slaves and 16 OPC UA sessions (clients).
- Supports 2-way RS485 communication (both master and slave modes), 1-way CAN communication, and supports 127 slaves when used as a CANopen master; supports CAN free protocol
- Supports USB download of monitoring programs and firmware upgrades.
- Using ladder diagrams, function blocks, and ST programming languages compliant with the IEC61131-3/PLCopen standard effectively reduces project development time and improves project development efficiency.

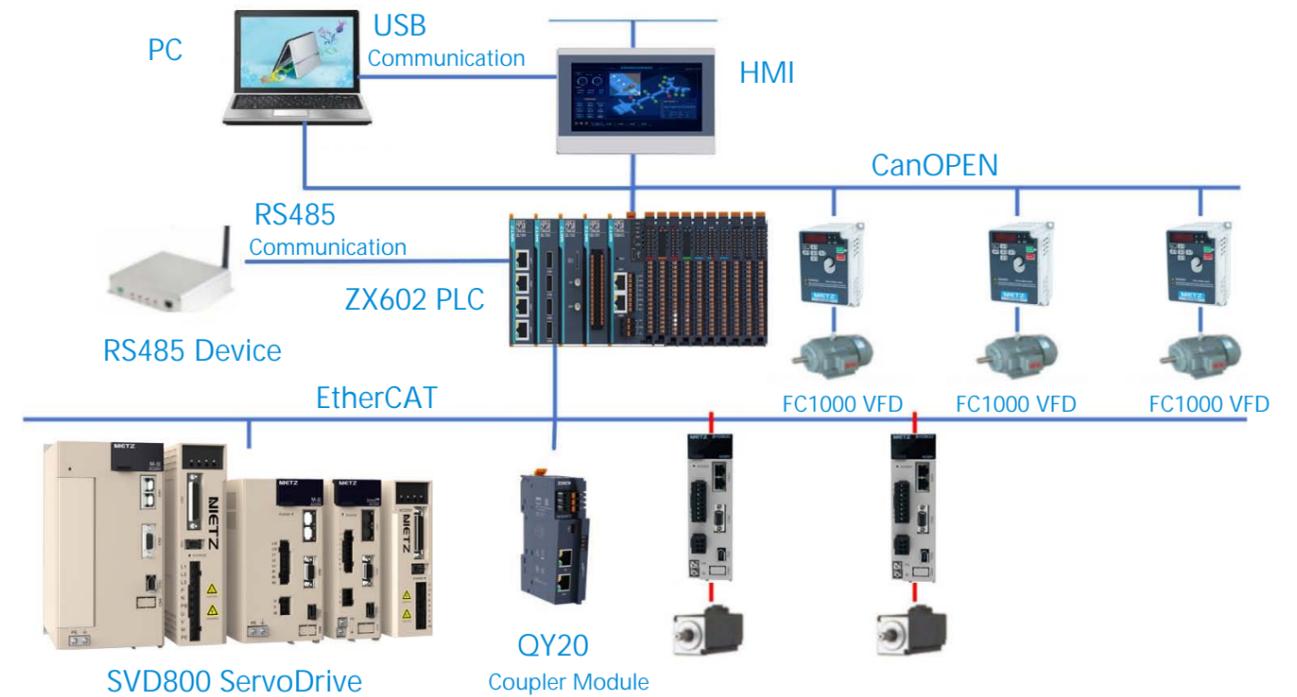
Flexible and comprehensive performance

- 1ms cycle, 4-axis synchronous control, supports up to 64 axes.
- The entire series supports EtherCAT linear, star, and ring network topologies. Splitters can be integrated via expansion modules.

PLC Code



ZQ600 Series PLC



The ZQ600 Series PLC supports multiple fieldbuses, enabling comprehensive expansion connectivity. Its conventional architecture diagram is shown below



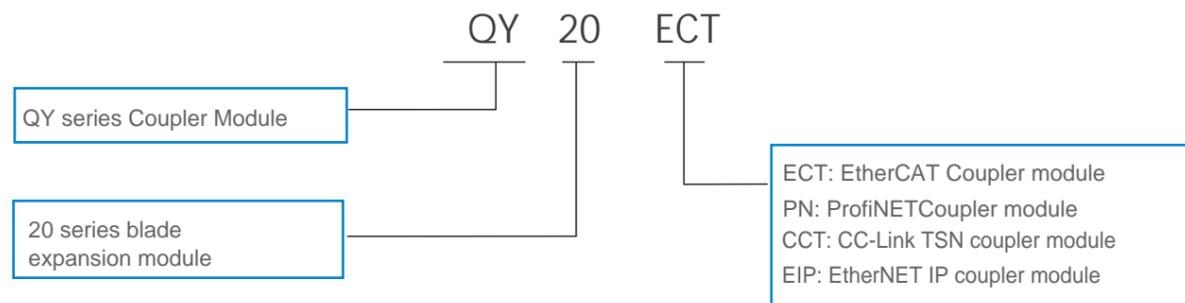
Use ladder diagrams, function blocks and ST language that comply with IEC61131-3/PLC open standards to effectively reduce project development time and improve project development efficiency.

QY20 Series Coupler



Model	QY20-ECT	QY20-PN	QY20-CCT	QY20-EIP
Product image				
Protocol	EtherCAT	ProfiNET	CC-Link IE TSN	EtherNET IP
Supported IO number	32			
Input Power	24VDC(±20%)0.5A			
Output	5V 2A			
Works Temp.	-20 °C ~ 55 °C			
Protective class	IP20			

QY20 Series Coupler



QY20 Series Coupler

The QY20 series plug-in IO modules consist of a coupler module, an IO function module, a relay power supply module, and a cover. The IO function modules are further divided into various types and numbers of function modules, including digital, analog, pulse output, encoder, and temperature. Customers can match them according to on-site requirements. They support mainstream communication protocols such as EtherCAT, PROFINET, CC-Link IE TSN, and are widely applicable to various bus applications.

Advantage

Thin and light insert

- The plug-in modular design allows the coupler to be as thin as 24mm and a single module to be as thin as 12mm.

Rich types

- IO expansion modules with various types and points, including digital, analog, pulse output, encoder, and temperature

Easy to install

- Snap-on rail design allows for easy assembly and disassembly, simplifying maintenance.
- Screwless terminal blocks reduce wiring time and improve installation efficiency. Each coupler supports up to 32 IO modules.
- The three-stage design and removable terminals allow for quick replacement without reinstalling cables, simplifying future maintenance.
- One-click firmware upgrades for the coupler and modules are available via USB-C.

High speed response

- Transmission speeds can reach 100Mbps (full-duplex), with a communication cycle as short as 500us. High-precision distributed clock, precise synchronization (jitter < 1 us) high-speed backplane bus ensures rapid response.

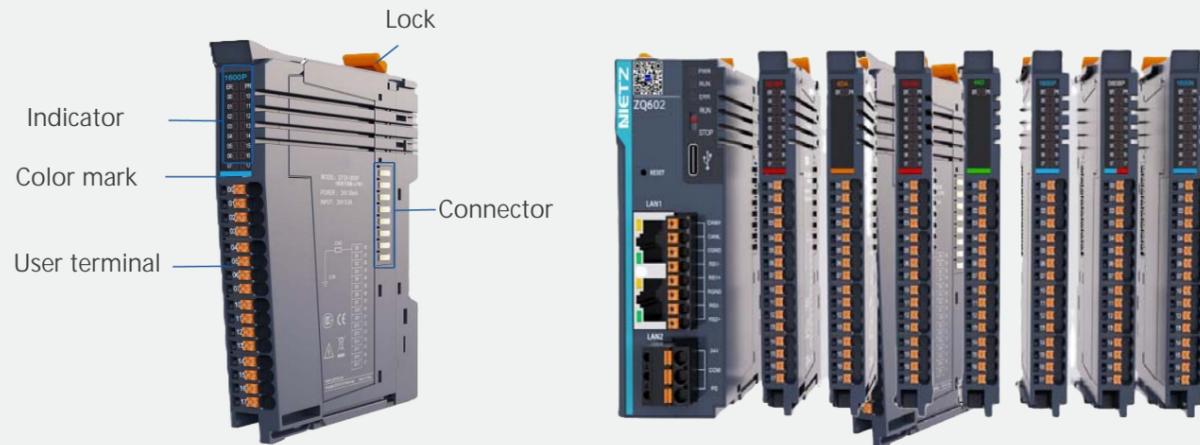
Various protections

- The power input (coupler, relay power module, etc.) has reverse polarity protection, and the digital output (transistor type) and analog output (voltage, current) have short-circuit protection.

Mainstream protocols

- Supports a variety of mainstream bus communication protocols, easily connecting to fieldbuses such as EtherCAT, PROFINET, CC-Link IE TSN, and EtherNET/IP.

QY20 Series IO Module



The QY20 series IO expansion modules adopt a plug-in structure and realize IO expansion of protocols such as EtherCAT, PROFINET, EtherNET/IP, CC-Link IE TSN through a high-speed backplane bus. Or they can be directly extended to the right side of the ZQ600 series PLC to realize PLC expansion. They include various types of modules such as digital, analog, pulse output, encoder, and temperature.

Advantage

Rich types

- The expansion IO modules offer a wide range of functions, including digital, analog, pulse output, encoder, and temperature control. Each module can be easily identified by its color, allowing for flexible combination and expansion, allowing for diverse applications.
- Supports error diagnosis, with error indicators on each module. Each module also supports fault alarm function, making detection and maintenance simple and convenient.
- Snap-on guide rail structure, easy to disassemble and assemble, easy to maintain

Easy to install

- Screwless terminal blocks reduce wiring time and improve installation efficiency. Each coupler supports up to 32 IO modules.
- The three-stage structural design and removable terminals allow for quick replacement without reinstalling cables, making future maintenance easier.
- One-click upgrade of coupler and module firmware via Type-C connection

High speed response

- High-speed backplane bus, fast response

How to Order

Code	Model	Description
45.02.0006	QY20-0016P	16 ways digital output module, PNP
45.02.0004	QY20-0016N	16 ways digital output module, NPN
45.02.0003	QY20-1600P	16 ways digital input module, PNP
45.02.0005	QY20-1600N	16 ways digital input module, NPN
45.02.0013	QY20-0808P	8 ways digital input+8 ways digital output, PNP
45.02.0019	QY20-0808N	8 ways digital input+8 ways digital output, NPN
45.02.0008	QY20-4AD	4 ways analog input module, 10V \neq 0~10V/ 5V/0 \neq 5V/1~5V/0~20mA/4~20mA
45.02.0009	QY20-4DA	4 ways analog output module, 10V \neq 0~10V/ 5V/0~5V/1~5V/0~20mA/4~20mA
45.02.0014	QY20-8AI	8 ways analog input module high precision current type, 0~20mA/4~20mA
45.02.0011	QY20-8AV	8 ways analog input module high precision voltage type, 10V \neq 0~10V/ 5V/0 \neq 5V/1~5V
45.02.0012	QY20-8AI-L	8 ways analog input module low precision current type, 0~20mA/4~20mA
45.02.0021	QY20-8AV-L	8 ways analog input module high precision voltage type, 0~10V/0~5V/1~5V
45.02.0015	QY20-4PT	4 ways thermal resistor temp. detect modulePT100,PT500,PT1000,CU100,KTYB4,NTC5K,NTC10K
45.02.0016	QY20-4TC	4-way thermocouple temperature detection module, B, E, N, J, K, R, S, T
45.02.0017	QY20-2HC	2-channel encoder high-speed counting 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	Relay power module, 5V 2A

Digital output modules

Model	QY20-0016P	QY20-0016N
Product image		
Interface	16 ways PNP digital output	16 ways NPN digital output
Input power	24V DC (\pm 20%) 30mA	
Output characteristics	Single channel 500mA, resistive load, inductive load, lamp load	
Operating temperature	-10 ~55	
Protection level	IP20	

Digital input modules

Model	QY20-1600P	QY20-1600N
Product image		
Interface	16 ways PNP digital input	16 ways NPN digital input
Input power	24V DC (\pm 20%) 30mA	
Output characteristics	24V 500mA Input ON logic: 15V~26V Input OFF logic: 0V~4V	
Operating temperature	-10 ~55	
Protection level	IP20	

QY20 IO Module

Analog input and output modules

Model	QY20-4AD	QY20-4DA
Product image		
Interface	4 ways analog input	4 ways analog output
Input power	24V DC (±20%) 30mA	
Output characteristics	-10V~10V,0~10V,-5~5V,0~5V,1~5V,0~20mA,4~20mA	
Measurement accuracy	25 : Full scale x ±0.3% (-10V~10V full scale) -20~55 : full scale x ±0.5% (-10V~10V full scale)	
Operating temperature	-10 ~-55	
Protection level	IP20	

Digital input & output module

Model	QY20-0808P	QY20-0808N
Product image		
Interface	8-channel PNP digital input 8-channel PNP digital output	8-channel NPN digital input 8-channel NPN digital output
Input power	24V DC (±20%) 30mA	
Input characteristics	24V 500mA Input ON logic: 15V~26V Input OFF logic: 0V~4V	
Output characteristics	Single channel 500mA, resistive load, inductive load, lamp load	
Operating temperature	-10 ~-55	
Protection level	IP20	

QY20 IO Module

Temperature detect module

Model	QY20-4PT	QY20-4TC
Product image		
Interface	4 ways thermal resistor detect module	4 ways thermocouple detect module
Input power	24V DC (±20%) 30mA	
Input characteristics	Pt100, Pt500, Pt1000, Cu100, KTY84-130 NTC5K, NTC10K	Thermocouple: B, E, N, J, K, R, S, T
Operating temperature	-10 ~-55	
Protection level	IP20	

Multi-way analog input module

Model	QY20-8AI	QY20-8AIL-L	QY20-8AV	QY20-8AV-L
Product image				
Interface	8-channel current input(16bit)	8-channel current input(12bit)	8-channel voltage input(16bit)	8-channel voltage input(12bit)
Input power	24V DC (±20%) 30mA			
Input characteristics	0~20mA,4~20mA		-10~10V,0~10V,-5~5V,0~5V,1~5V	
Operating temperature	-10 ~-55			
Protection level	IP20			

Other function module

Model	QY20-4HC	QY20-4PO	QY20-PS
Product image			
Interface	2 ways encoder module	4 ways pulse output module	Power module
Input power	24V DC (±20%) 30mA		
Input characteristics	2-way 5V differential or 24V single-ended input, each supporting 2-way probe or DI (used when 5V differential), 1-way comparison output or DO	4 channels of pulse output supports positioning & velocity motion modes	24VDC(±20%)500mA,5V 2A
Operating temperature	-10 ~-55		
Protection level	IP20		