

Intelligent Controller, PLC,

Expansion Module and HMI

For More Accurate Bus Control



Shenzhen Inovance Technology Co.,Ltd.

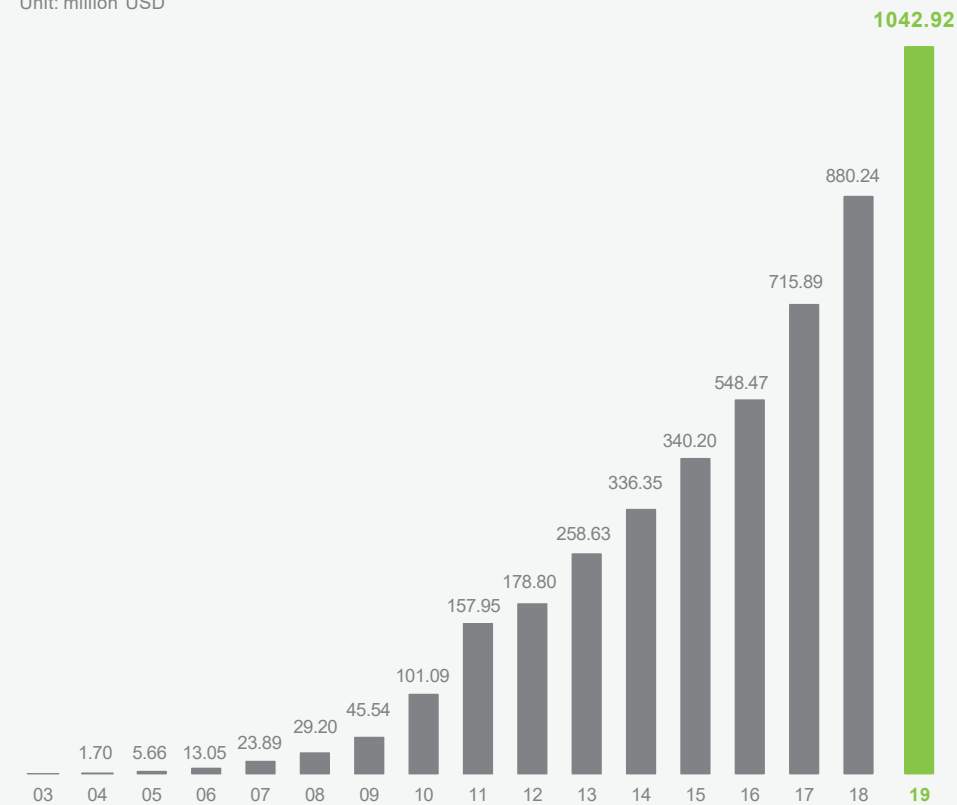
Founded in 2003,A-sharelisted company, stock code: 300124

Leaderof industrial automation control and drive technology in China

Vision:Commitment to industrial advancement for a shared better life

Mission:Promote industrial civilization with leading technology

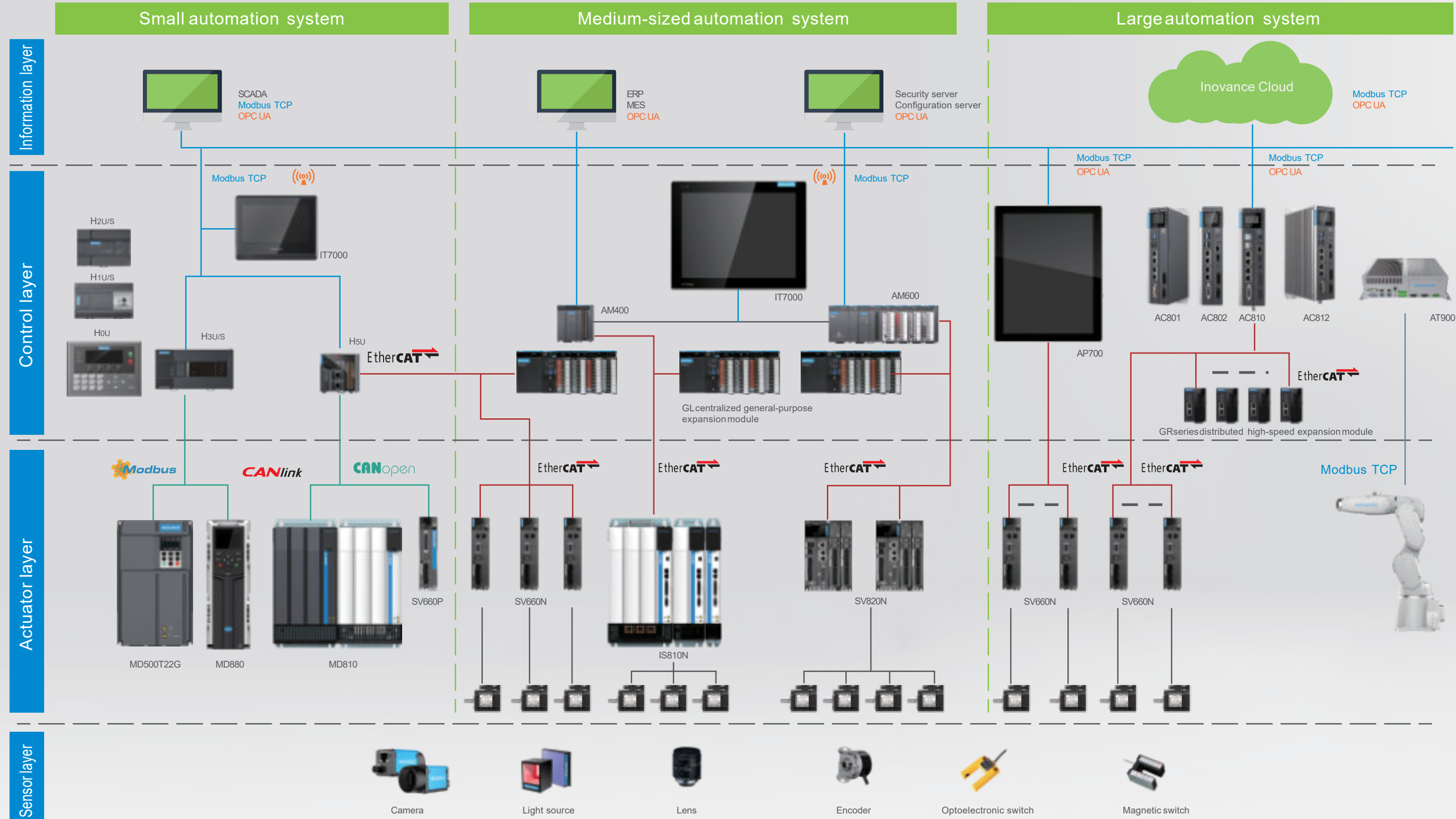
Unit: million USD



Shenzhen Inovance Control Technology Co.,Ltd.

An industrial automation company controlled by ShenzhenInovance Technology Co.,Ltd., focusing on R&D, production and salesof PLCs,intelligent controllers, HMIs,industry-specific controllers, and providing comprehensive technical support serviceson controllers. In 13 years since its inception, the company has independently developed a full range of controllers covering micro PLCs,general-purpose small PLCs,high-performance small PLCs,medium-sized PLCs,and intelligent controllers, with multiple I/O configurations and performance classes.The third generation IT7000HMI provides users with hardware products and control solutions for logic control, processcontrol and high-speed motion control. The company has become a key part supplier and partner of a variety of OEMs,manufacturersof advanced manufacturing equipment for lithium batteries, smart phones, printing and packaging, and TP/LED,and EU users of high-end heavy equipment.

Inovance's Industrial Automation Product Lineup



Inovance delivers products covering all general automation applications, and provides a complete range of comprehensive solutions based on the information layer, control layer, actuator layer, and sensor layer. The automation system based on Inovance's small PLCs, medium-sized PLC and intelligent controllers has significantly enhanced the competitiveness of a large number of OEMs and manufacturers of lithium batteries, mobile phones, printing and packaging, TP/LED, and semiconductors.

Introduction To PLC Products

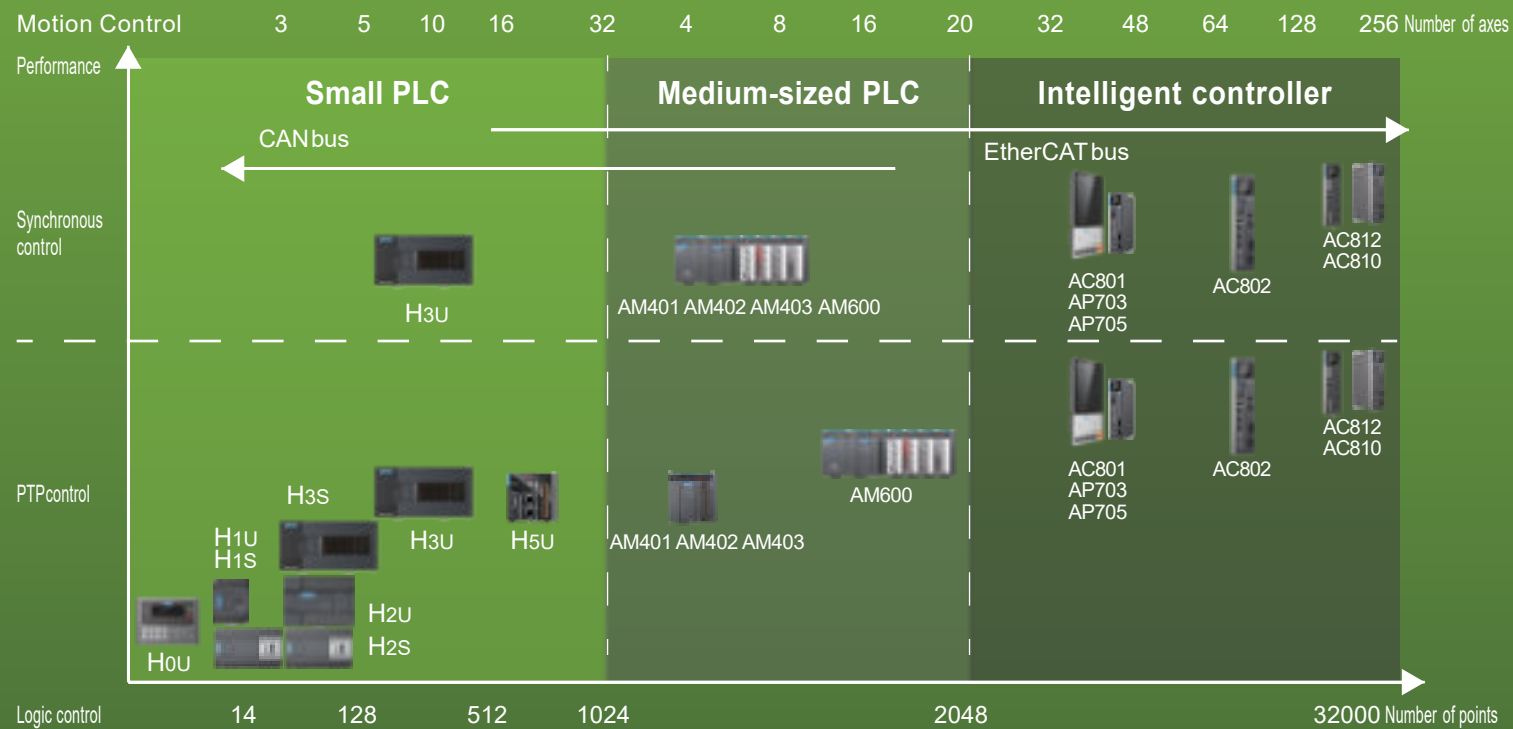
Inovance's PLC products include small PLCs, medium-sized PLCs and intelligent controllers.

The small PLCs, which include H0U, H1U/H1S, H2U/H2S, H3U/H3S, and H5U series, are mainly used in logic control and point-to-point control and supports up to 2048 points and 32 axes.

The Medium-sized PLCs, which include AM400 and AM600 series, are mainly used in motion control. They come with CNC, electronic cam, and electronic gear functions, and support 8-axis synchronous control, 20-axis PTP control, and 2048-point I/O logic control.

The intelligent controllers, which include AP700 series display and controller integration and AC800 series booksize high-performance products, are mainly used in multi-axis motion control. The AP700 series with built-in CNC function is adaptable to machine tool equipment control. It support up to 32-axis synchronous and PTP control. The AC800 series is designed for the control of large and complex mechanical equipment, and supports up to 256-axis synchronous and PTP control.

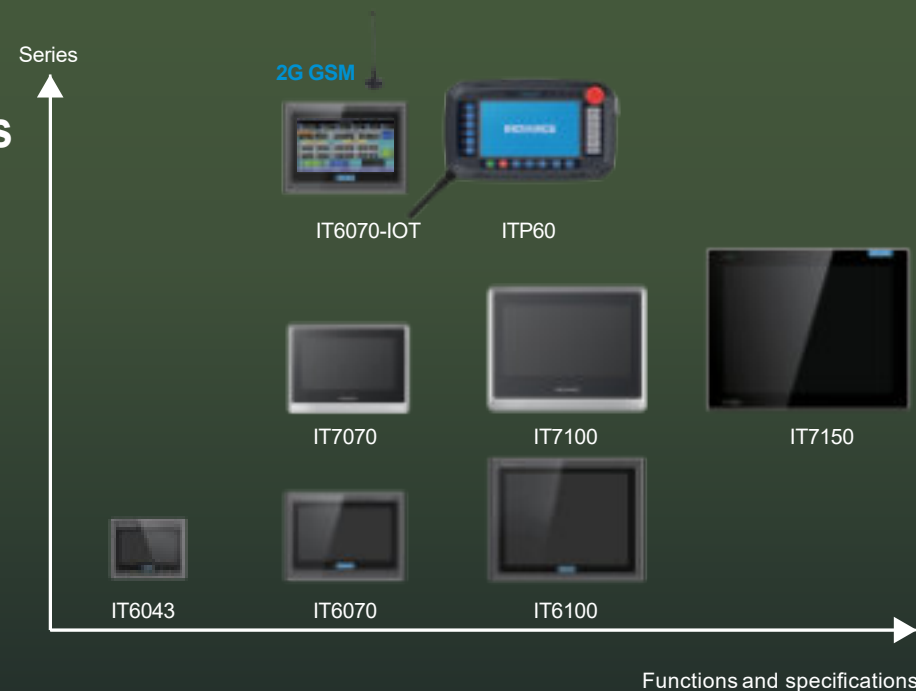
PLC product family



Introduction to Inovance HMI products

HMI product family

The HMI products include the IT6000 series and IT7000 series. They are sized from 4.3" to 15". While perfectly adapted to Inovance's PLCs, AC drives and servos, they are also compatible with the products from major manufacturers. The new-generation IT7000 series delivers perfect data visualization and responsive operation. It caters not only for operation and monitoring of common small equipment, but also for that of complex equipment and production processes. It is cost-effective.



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AC800 Series

High-performance intelligent controller



High-end controller with powerful computing performance

- CPU: Intel Core i7, i5, or Celeron series.
- Support for 6 PLCopen-compliant programming languages.
- System software: PLCopen + CAM + CNC + ROBOT.
- AC810 dual EtherCAT master network: 32 axes at 500 us EtherCAT period; 256 axes at 4 ms EtherCAT period.
- EtherCAT bus I/O expansion support up to 32000-point high-speed I/O expansion and common DI/DO expansion.
- Multi-layer networking due to support for multiple communication protocols including EtherNet/IP, OPC/UA, and Modbus TCP.
- Use with legacy equipment through built-in Modbus RTU master/slave protocol and 2 separate communication interfaces RS485 and RS232.

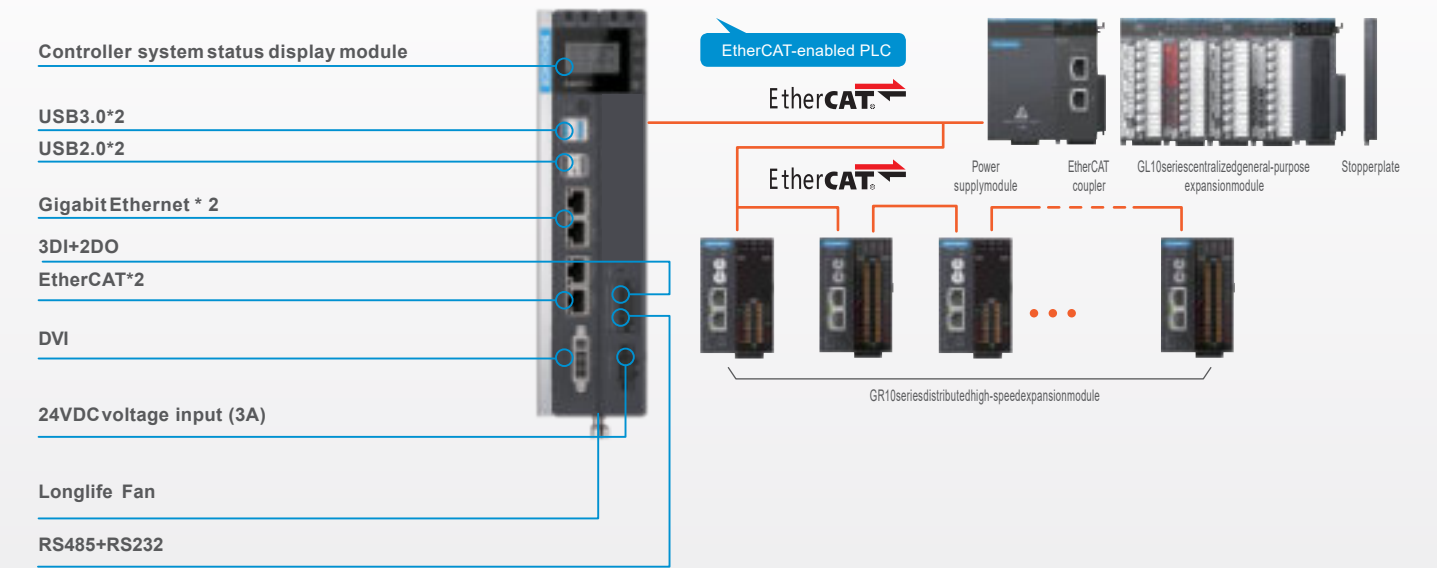
Multi-axis synchronous motion control

Edge computing carrier

Integrated industry process library

- Functions: sync-enabled manipulator, CNC, electronic cam, and electronic gear.
- High precision: jitter within 30 us
- Powerful computing performance due to i7 + 128G SSD + 4G DDR
- Data processing library: used for big data processing, file processing, and production line data collection and processing
- General instruction library, packaging process library, silicon crystal industry library, lithium battery process library (square winding) ...

Features



Hardware Specifications

Software Specifications

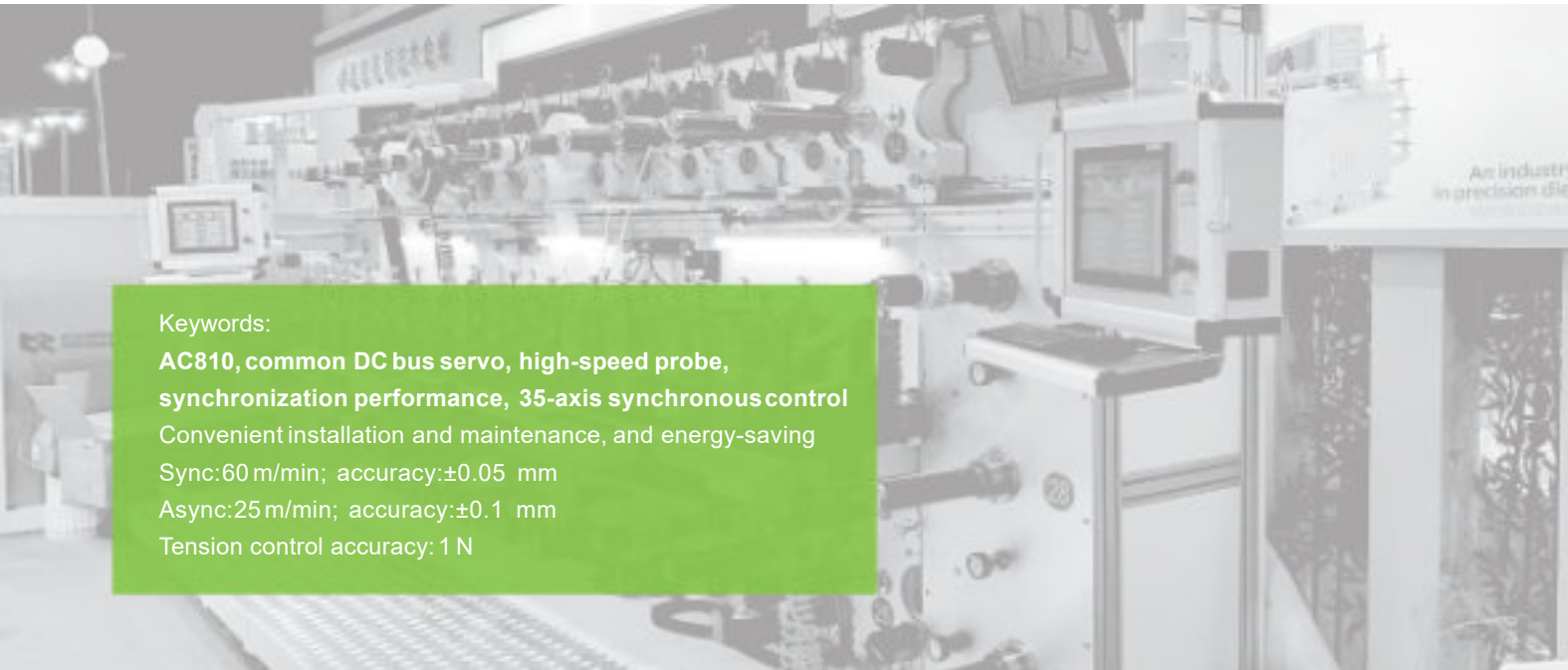
产品型号	AC812-0322-U0R0	AC810-0122-U0R0	AC802-0222-U0R0	AC801-0221-U0R0
Processor	Intel Core, i7 2.7GHz	Intel Core, i5, 2.3GHz	Intel Celeron, 1.6GHz	Intel Celeron, 1.6GHz
Memory	DDR4G, SSD128G			DDR4G, SSD64G
Display and interface	One DVI-D interface Built-in system status display module, 128 × 64 dot matrix, 4 buttons			
Bus	EtherCAT master × 2			EtherCAT master × 1
	LAN × 2, for Modbus TCP, UDP, and OPC UA USB 2.0 × 2, USB 3.0 × 2			
Serial communication	RS485 × 1, RS232 × 1			
DI/DO	For power failure retention trigger/system alarm signal output			
Power input	24Vdc, 1.5A			
UPS backup power interface	Available			
Cooling fan	2 long-life fans		None	
EMC test standard	IEC 61131-2 compliant			
Working/storage temperature	-5°C ~ 55°C / -40°C ~ 70°C			
Dimensions	164 × 65 × 265 (mm)			
Ordering code	01440143	01440038	01440101	01440103

Model	AC812-0322-U0R0	AC810-0122-U0R0	AC802-0222-U0R0	AC801-0221-U0R0
OS	Linux/RT or Ubuntu	Linux/RT or Ubuntu	Linux/RT or Ubuntu	Linux/RT or Ubuntu
System software	Full support for PLCopen			
	CDSAP-based Inovance InoProShop PLCopen/SoftMotion with CDSRuntime, supporting all motion control functions such as PLCopen/CAM/CNC/ROBOT			
Axis capability of EtherCAT master	32 axes at 500 us period		16 axes at 500 us period	16 axes at 1 ms period
	Max. 128 + 128 axes		Max. 64 + 64 axes	Max. 48 axes
DVI display	Display is unavailable			
OPC/UA protocol	Built-in			
EtherNet/IP protocol	Not built-in and needs to be ordered separately			

AC800Applications

Rotary die cutting machine

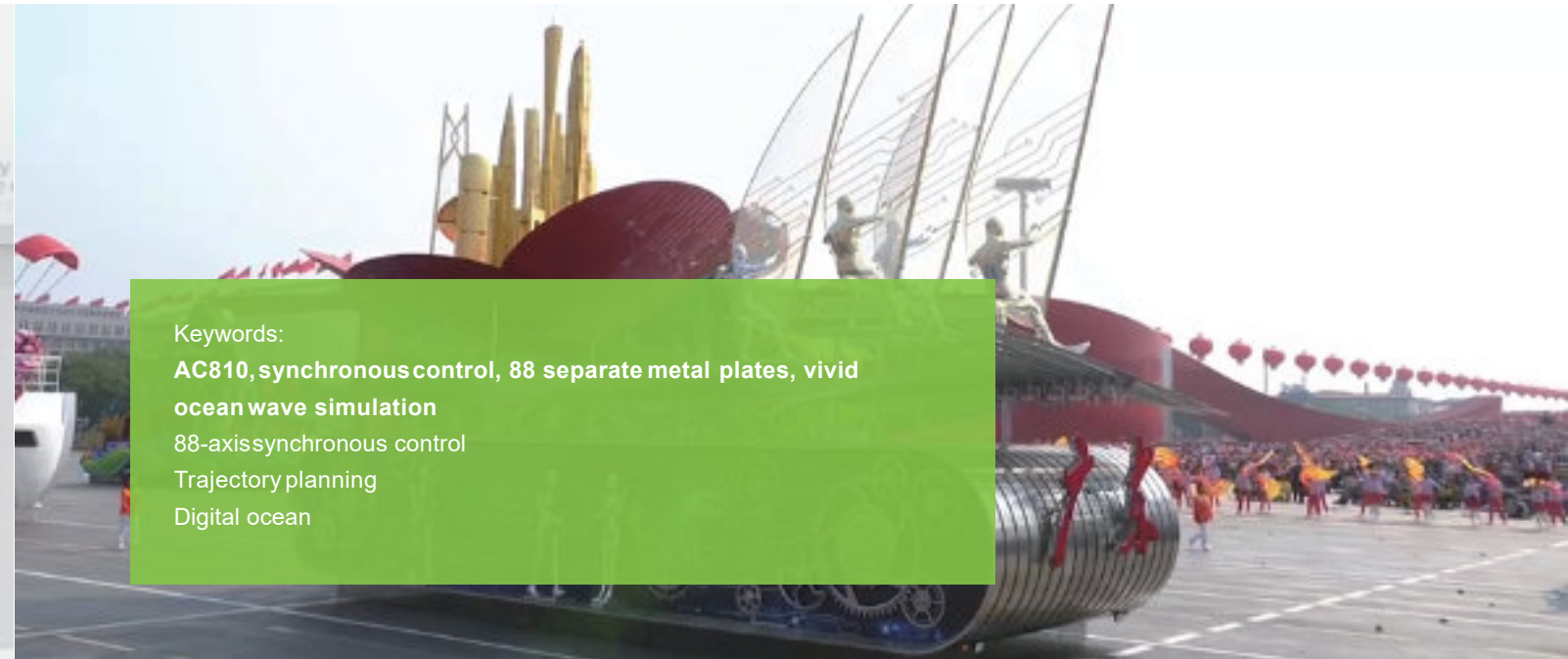
Leading core technology algorithm



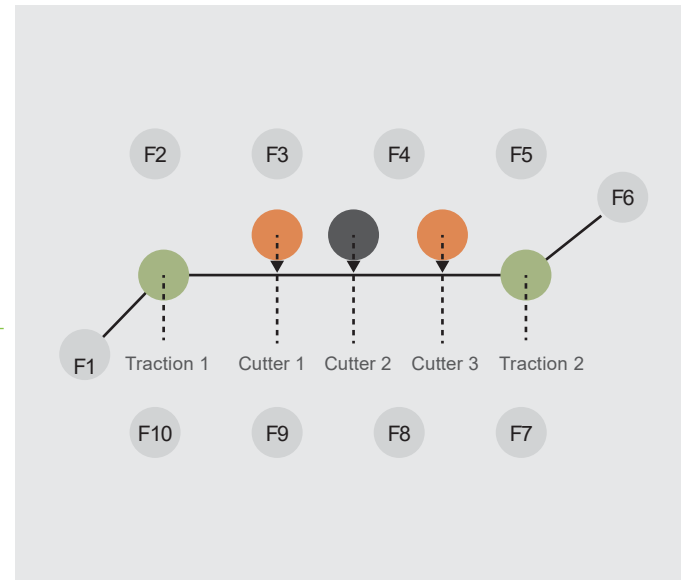
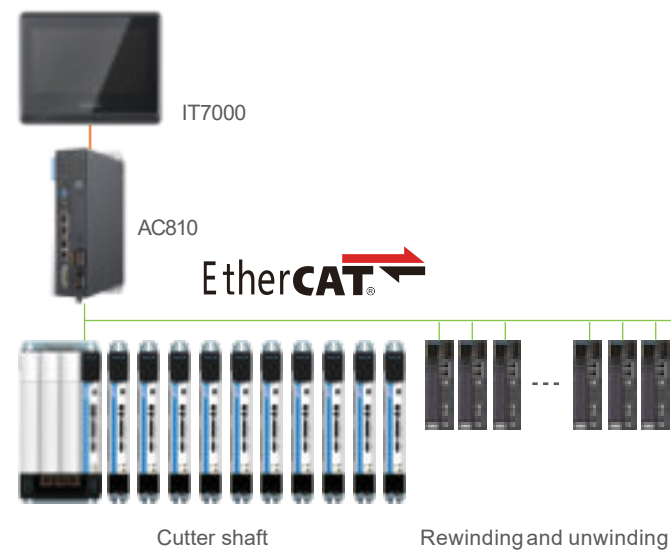
Keywords:
AC810, common DC bus servo, high-speed probe, synchronization performance, 35-axis synchronous control
 Convenient installation and maintenance, and energy-saving
 Sync: 60 m/min; accuracy: ±0.05 mm
 Async: 25 m/min; accuracy: ±0.1 mm
 Tension control accuracy: 1 N

National Day Parade floats

Extreme multi-axis synchronous control stability



Keywords:
AC810, synchronous control, 88 separate metal plates, vivid ocean wave simulation
 88-axis synchronous control
 Trajectory planning
 Digital ocean



AC800Applications

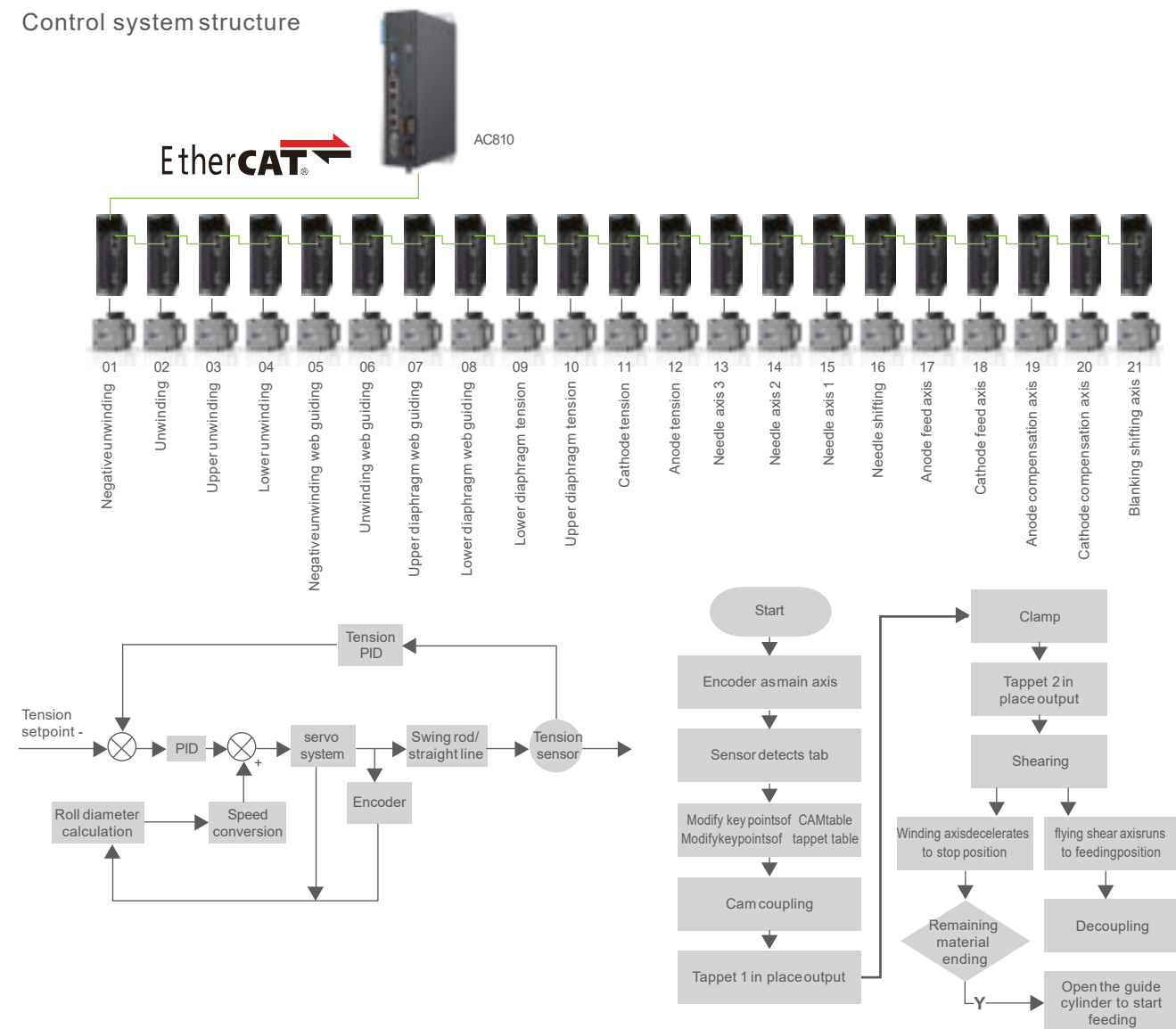
Square lithium battery winding machine

Tab-forming and winding integration solution brings high efficiency

The square lithium battery features simple structure, light weight accessories, and high energy density. Square battery manufacturing involves two different processes: winding and stacking.

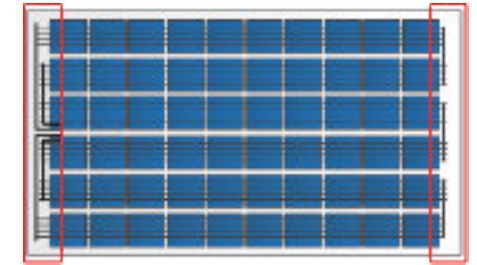
In the winding control, tension is controlled by moving the battery electrode film and the insulating film at a uniform speed through the non-uniform rotation of the winding needle. In this way, product quality and winding efficiency are improved. A cam motion control algorithm with a virtual main axis is used in the control program. The winding control also involves tab alignment, diaphragm web guiding, and tension control. The high-speed movement of the diaphragm requires extreme fast computation speed of the controller. The AC810 controller, which provides large load rate margin, is a perfect match for this purpose.

Control system structure



Bus ribbon automatic soldering machine

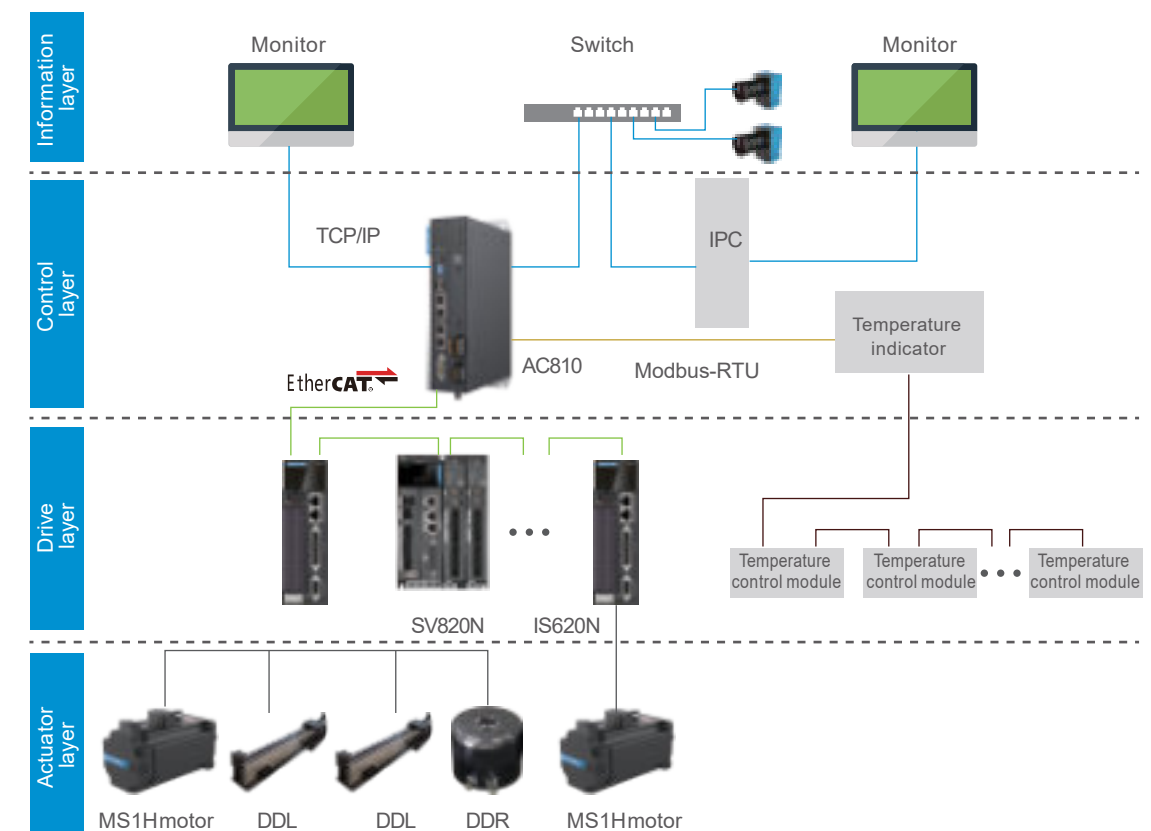
Multi-station overall control greatly reduces labor costs



In photovoltaic panel production, small pieces of solar panels need to be connected in series by welding to form a photovoltaic panel. Traditionally, the welding is carried out manually, with low efficiency and poor quality consistency. The AC810 controller allows for automatic welding. The part in the red rectangle as shown in the right figure is to be soldered:

In the bus solder solution, An AC810 controller, which integrates motion control and logic control, is used to control 65 servos through an EtherCAT bus in a flexible and high-speed manner. A DDL motor is used for key axes such as the soldering station and a DDR motor is used for scenarios that require high torque, high precision and alignment. This solution can replace 3 skilled workers and significantly improve production efficiency and quality by completing half-cell module soldering, conventional soldering, and double-glass module soldering in 25s respectively.

Control system structure



Construction of control system

AC810+ IS620N* 65, including 29 common servos, 24 DDLs and 12 DDRs.

Benefits

The traditional process requires 3 skilled workers. Inovance's bus soldering solution replaces these workers with a complete process system based on the EtherCAT bus solution and the AC810 high-performance bus controller. Improvement in productivity, efficiency, stability and ease-of-use.

AP700 Series

Display and controller integrated intelligent controller



All-rounder in machine tool applications

- Visual programming interface.
- Intel x86 high-performance processor, integrated display and control.
- Min. bus period 500 μs; multi-axis motion control synchronizes 16 axes in 1 ms.
- 15" resistive touch screen.
- Visual programming with InoProShop.
- Fanless design adaptable to wide temperature range environment.

Modular technology platform

- Built-in T7000-based CAM control
- Built-in CNC, PLC, HMI functions
- Support for multi-channel multi-station simultaneous interpolation
- Support for I/O control with EtherCAT bus expansion

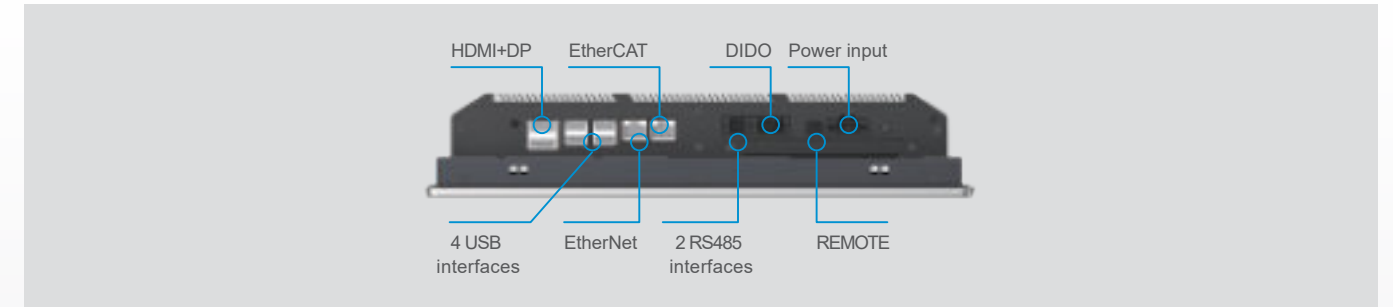
Controllable trajectory

- Synchronization between PLC and HMI; support for Gcode visualization and programming
- Generate trajectory control programs directly from DXF and DWG files
- Direct fine-tuning on the HMI improves trajectory accuracy for shape processing

Integrated automatic loading and unloading

- Support for auxiliary axis control (electronic cam, electronic gear, PTP control)
- Integrated manipulator control model

Features



Product Specifications

Model	AP703
Processor	Intel x86 1.6 GHz dual-core processor
Memory	DDR4G/8G SSD64G
Bus	EtherCAT master x1 EtherNet x1
OS	Linux/RT
Serial communication	RS485 x2
HMI	IT7000
Max. number of axes	48
Monitor	15-inch TFT, resolution 1024x768, resistive
Dimensions (W*H*D)	351.9mm x 278.9mm x 66.5mm (13.85" x 10.98" x 2.62")
Hole size (W*H)	338mm x 265mm (13.30" x 10.43")



EP700 Series

Smart controller

The EP700 series intelligent controller is AP700's counterpart in the **hydraulic industry**.

- EP700 retains the powerful real-time synchronization function of AP700, and rivals major international products in terms of control accuracy and interface operation experience.
- The open platform effectively improves the reusability of standard programs and enables secondary development for users. The core process encryption and encapsulation and big data storage functions enhance equipment competitiveness.

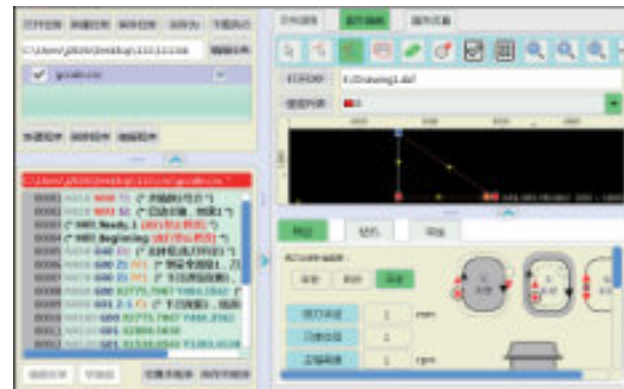
AP700 Applications

Drilling, tapping and plane milling controller

Easy-to-use graphic-text analysis

This solution employs an Inovance AP700 controller, 6 Inovance IS620N servo drives, and the EtherCAT technology. This solution comes with CAM auxiliary software which enables Gcode generation with mouse clicks. Users need not to learn complicated CAM software, such as UG, PRO-E, and MasterCAM.

- Beginner-friendly integrated controller
- Real-time EtherCAT bus control
- Open architecture allows for quick customization of the UI or control



Five-axis polishing grinder

Intelligent model analysis significantly improves machining accuracy

Keywords: AP702, CNC file reading, editing, teaching, execution, RTCP and grinding wheel tool compensation, import DXF files, one-click generation of Gcodes, customer core technology encapsulation.

- Processing accuracy: ± 0.01 mm
- Repeated positioning accuracy: 0.01 mm
- Idle speed: 500 mm/s
- Operating speed: 300 mm/s

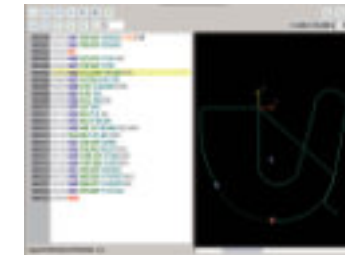
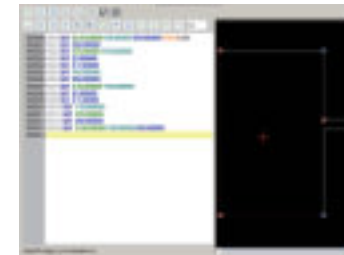


Friction stir welding

Cost-effective controller enables customizable manufacturing process

Keywords: AP702, five-axis linkage, RTCP numerical control function, Gcode analysis, CNC interpolation, axis coordinate transformation control function block, IT7000 industry-specific controls, fast delivery

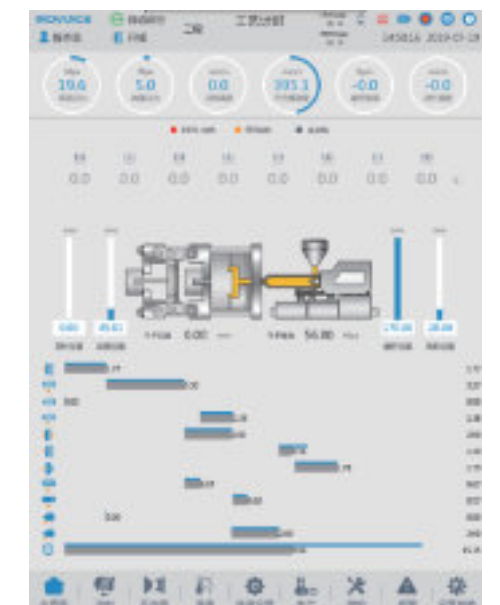
- The user can import DXF graphics and specify the processing trajectory.
- Gcodes will be automatically generated
- G-code graphic-text editing
- Graphical simulation and real-time monitoring of processing trajectories



Hydraulic industry-all-electric injection molding machine system

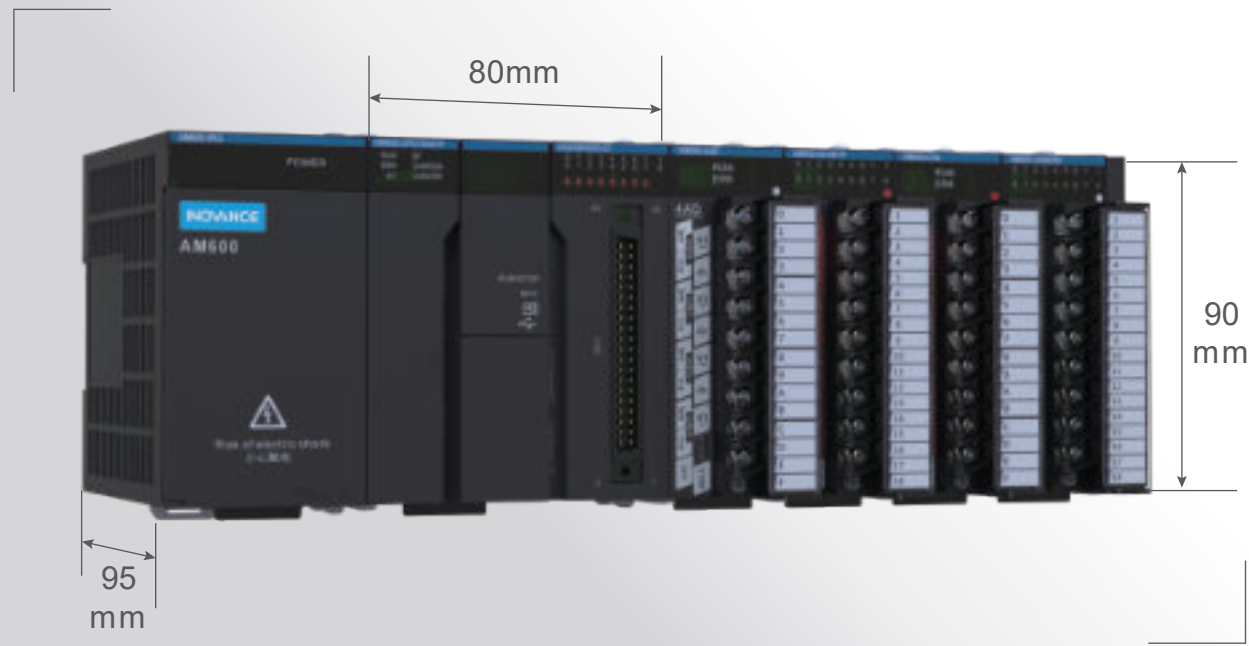
Cell production and integrated equipment control ensures improved production efficiency

Elegant UI, powerful real-time synchronization, high-precision trajectory control, XYZ synchronous control, and integrated back-end robot control model for automatic loading and unloading. Loading + processing technology + unloading, palletizing and packaging, all in one controller.



AM400/AM600 Series

General-purpose medium-sized PLC



- 10 M program capacity and 20 M data capacity.
- EtherCAT axis control: 20 axes for AM600, 16 axes for AM403, 8 axes for AM402, and 4 axes for AM401, and 2 axes for 1 ms synchronization.
- Support for PLCopen motion control instructions (electronic cam, electronic gear, interpolation), and coordinate transformation instructions.
- Ethernet or USB-based monitoring and commissioning, compliant with IEC61131-3.
- The main unit comes with 16 high-speed inputs and 4 pulse outputs.
- Various bus networks: support for EtherCAT, CANopen, CANlink, EtherNet: ModbusTCP master-slave protocol, FreeTCP, 2RS485: ModbusRTU master-slave protocol.

One-stop solution

- EtherCAT-based bus motion control.
- Provides serial port and CAN interface; supports expansion with both CANopen and EtherCAT; one-stop service thanks to distributed I/Os.
- The main unit supports up to 16 modules locally.

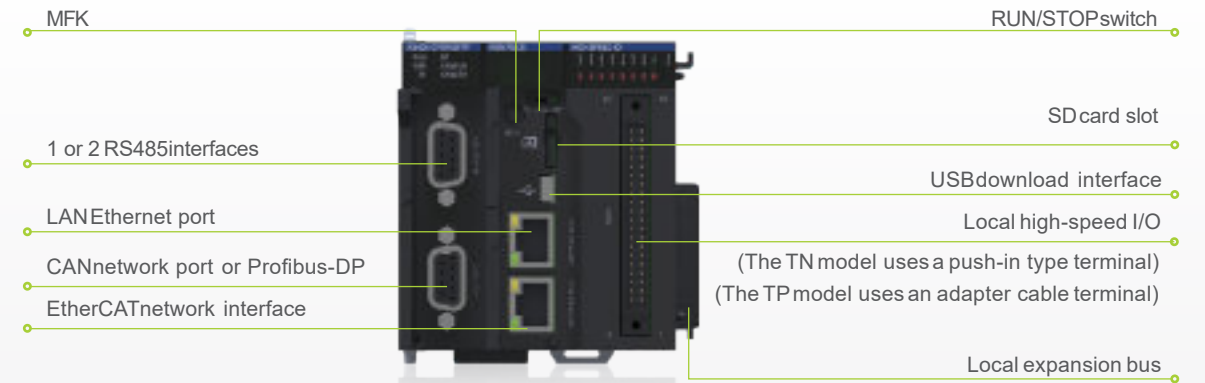
Powerful motion control

- PLCopen-based motion control platform
- Combination of virtual and real axes allows for a distance of up to 100 m between two servo slaves.
- Support for CNC/ROBOT function based on G instructions.

A variety of options

- 16-bit analog input and output, high precision temperature control module, DI/DO module (NPN, PNP transistor output, relay output), distributed IO communication module.

Features



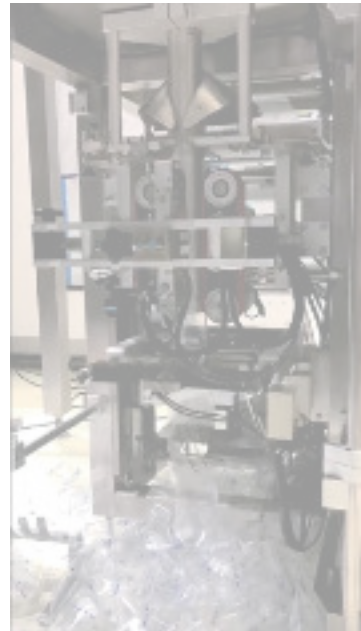
Product Specifications

Model	I/O Hardware	Code	EtherCAT Axis Limit	EtherCAT Slave	Comm. Interface	CAN Port	Local exp. I/O module
AM401 -CPU1608TN	16 inputs and 8 outputs High-speed I/O, NPN output Note: The product comes with plug-in push-in terminals, and no external terminal block is required	01440032	max. 4 EtherCAT servos + 4 GR10-4PME	Supports up to 125 EtherCAT slaves Supports up to 4 GR10-4PME modules	1 EtherNet interface 1 RS485 interface	1 CAN interface (Up to 8 CAN slaves)	Up to 8
AM401 -CPU1608TP	16 inputs and 8 outputs High-speed IO, PNP output Note: If you need local IO, you need to purchase a terminal block (see accessories information below)	01440028	max. 4 EtherCAT servos + 4 GR10-4PME	Same as above	Same as above	Same as above	Same as above
AM402 -CPU1608TN	16 inputs and 8 outputs High-speed I/O, NPN output Note: The product comes with plug-in push-in terminals, and no external terminal block is required	01440031	max. 8 EtherCAT servos + 4 GR10-4PME	Same as above	Same as above	Same as above	Same as above
AM402 -CPU1608TP	16 inputs and 8 outputs High-speed IO, PNP output Note: If you need local IO, you need to purchase a terminal block (see accessories information below)	01440029	max. 8 EtherCAT servos + 4 GR10-4PME	Same as above	Same as above	Same as above	Same as above
AM403 -CPU1608TN	16 inputs and 8 outputs High-speed I/O, NPN output Note: The product comes with plug-in push-in terminals, and no external terminal block is required	01440126	max. 16 EtherCAT servos + 4 GR10-4PME	Same as above	1 EtherNet interface 2 RS485 interface	1 CAN interface (Up to 63 CAN slaves)	Up to 16
AM600 -CPU1608TN	16 inputs and 8 outputs High-speed I/O, NPN output Note: The product comes with plug-in push-in terminals, and no external terminal block is required	01440064	max. 20 EtherCAT servos + 6 GR10-4PME are recommended	Supports up to 125 EtherCAT slaves Supports up to 6 GR10-4PME modules	1 EtherNet interface 2 RS485 interface	1 CAN interface (Up to 63 CAN slaves)	Up to 16
AM600 -CPU1608TP	16 inputs and 8 outputs High-speed IO, PNP output Note: If you need local IO, you need to purchase a terminal block (see the accessories information below)	01440014	max. 20 EtherCAT servos + 6 GR10-4PME are recommended	Same as above	Same as above	Same as above	Same as above

AM400/AM600 Applications

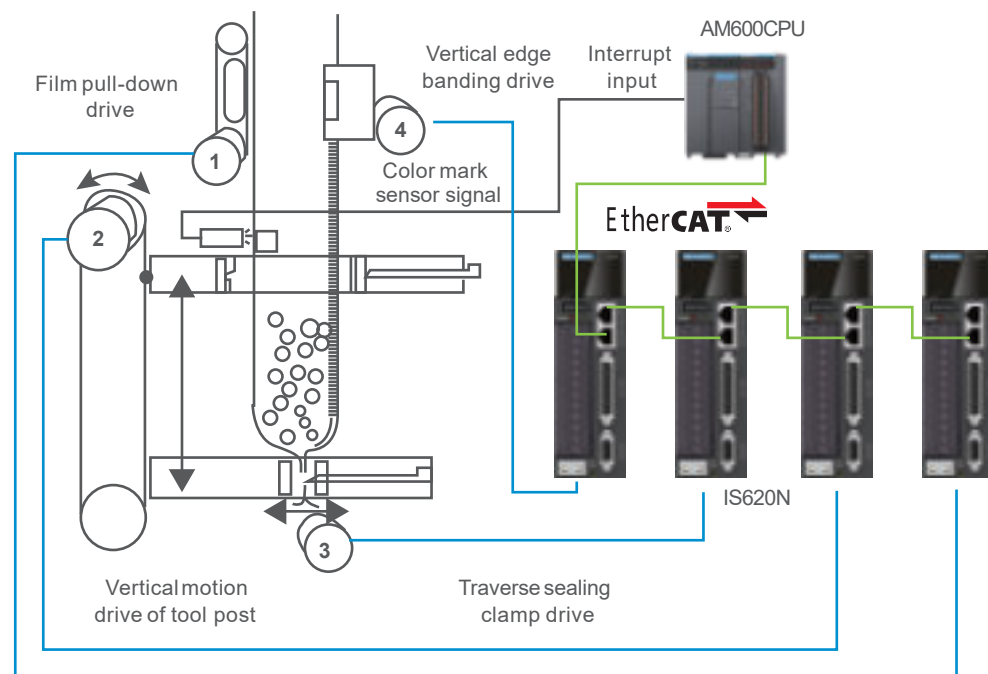
High speed packer

Full electronic cam solution improves efficiency



Keywords: AM600, synchronous control of pull-down, vertical sealing, horizontal sealing, cutting with 5-axis full electronic cam, high-speed and low-noise

120 packs/min; follow accuracy ±1 mm



Multi-wire saw

Industry standard core tension control and wire arranging algorithm

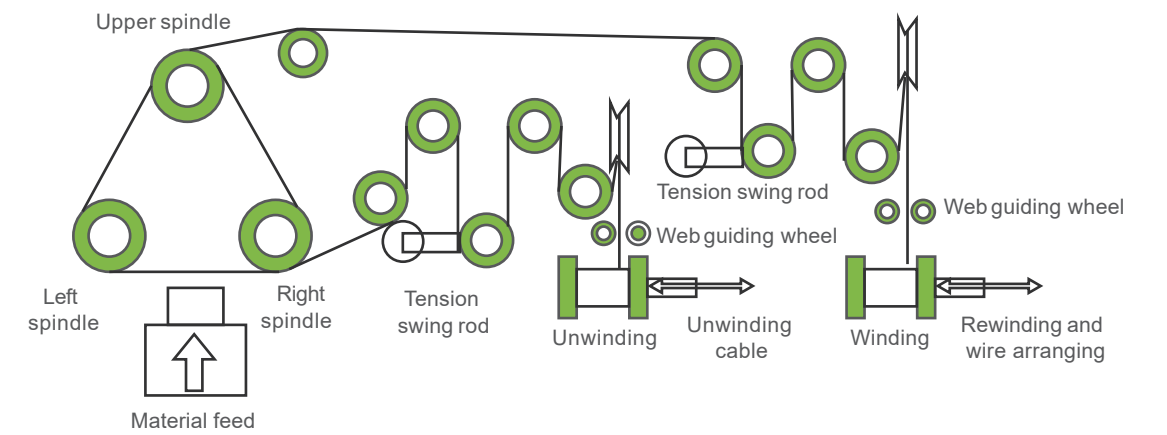
Keywords: AM600, 12-axis synchronous control, multi-main axis load distribution and two-axis cam cable arranging process block, linear speed increased by 50%, tension fluctuation ±0.5 N, best in the industry

Cutting line speed 1800 m/min

Line tension fluctuation: ±0.5 N

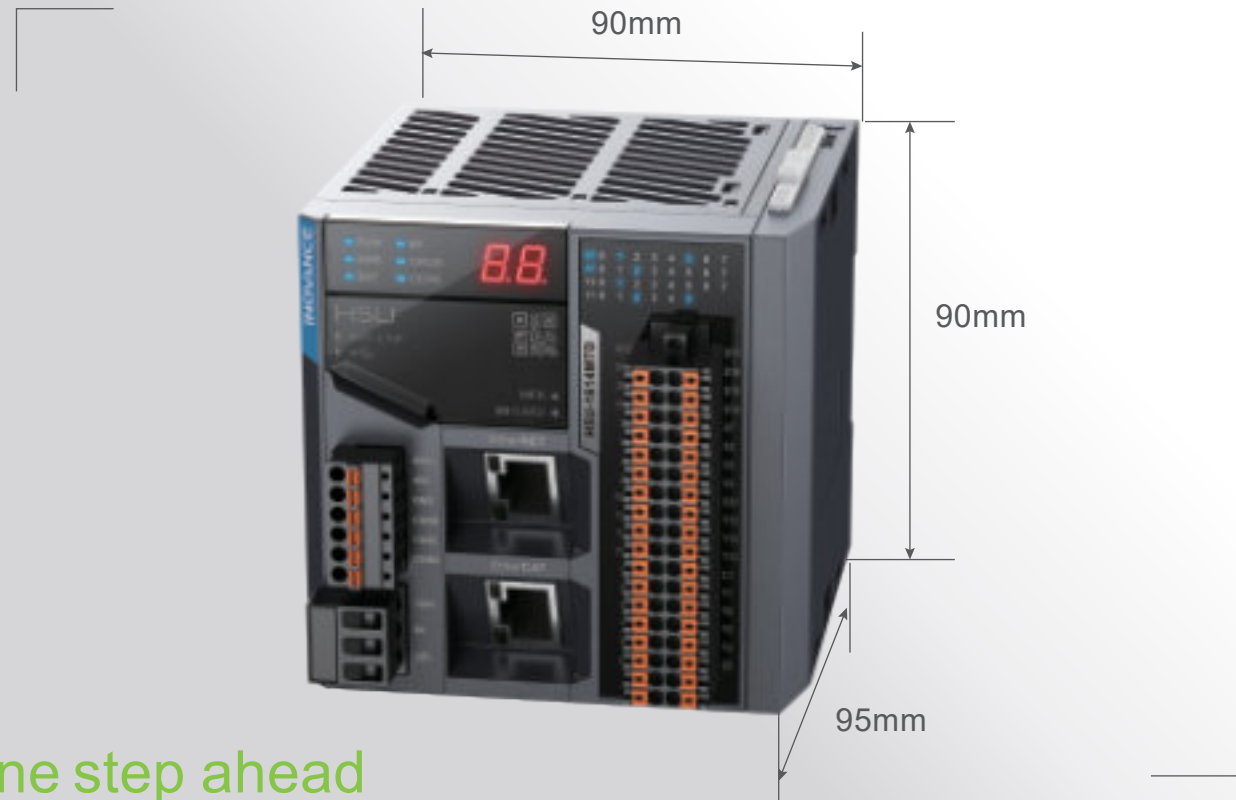
Swing lever swing angle: ±1°

Acc./dec. time: 3s



H5U Series

EtherCATbus high-performance small PLC

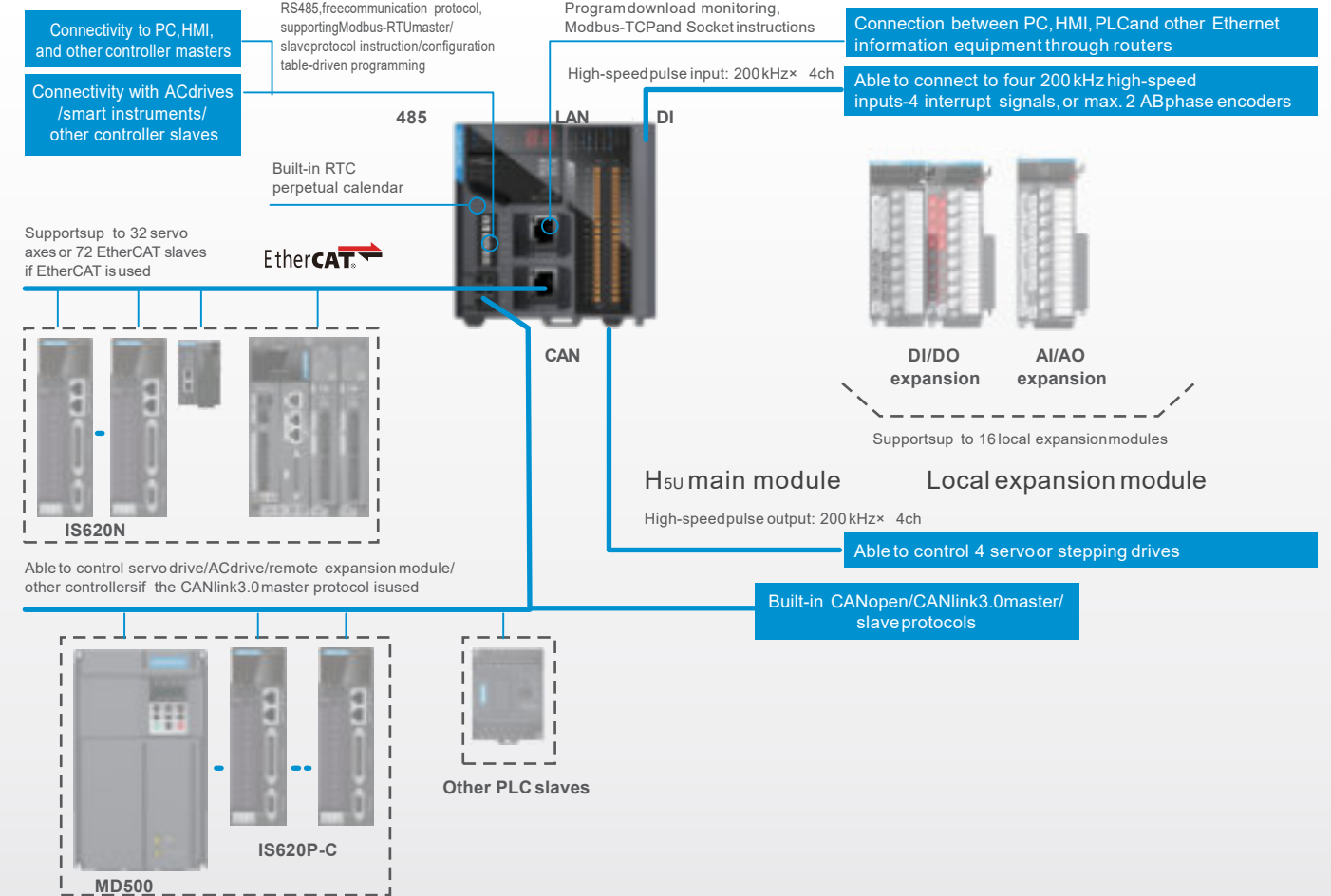


One step ahead

- Support for 32-axis EtherCATbus motion control, absolute/relative, speed, torque, and jog control.
- Supports 72 EtherCAT slaves.
- The main unit supports up to 16 GL (AM600) series local expansion modules.
- LD/SFC programming, supporting FB/FC (LD), and function block authorization.
- The main unit supports 4-axis 200 kHz pulse output and 4 200 kHz high-speed inputs.
- 1 CAN interface and 1 RS485 interface, supporting Ethernet Modbus TCP and Socket instructions.
- Support for user-defined variables and graphics block instructions in LD programming.

Simplified EtherCAT Implementation	High-efficiency programming	Fast delivery
<ul style="list-style-type: none"> EtherCAT: 32-axis PTP motion control, 72 slaves. PLCopen-compliant axis control. Local pulse and EtherCAT axis share the same motion control instructions. 	<ul style="list-style-type: none"> Supports FB and FC for encapsulation and reuse of technology. Efficient and easy-to-use ladder diagram programming, supporting graphic block instructions. User-defined variable programming, programming input assistant. Programming-free servo commissioning. 	<ul style="list-style-type: none"> Fast installation due to simplified wiring and network port-type wiring. High-resolution waveform tracking tool improves commissioning efficiency and debugging. High compatibility thanks to support for Ethernet, CAN, 485 and EtherCAT multi-level network communication.

Features



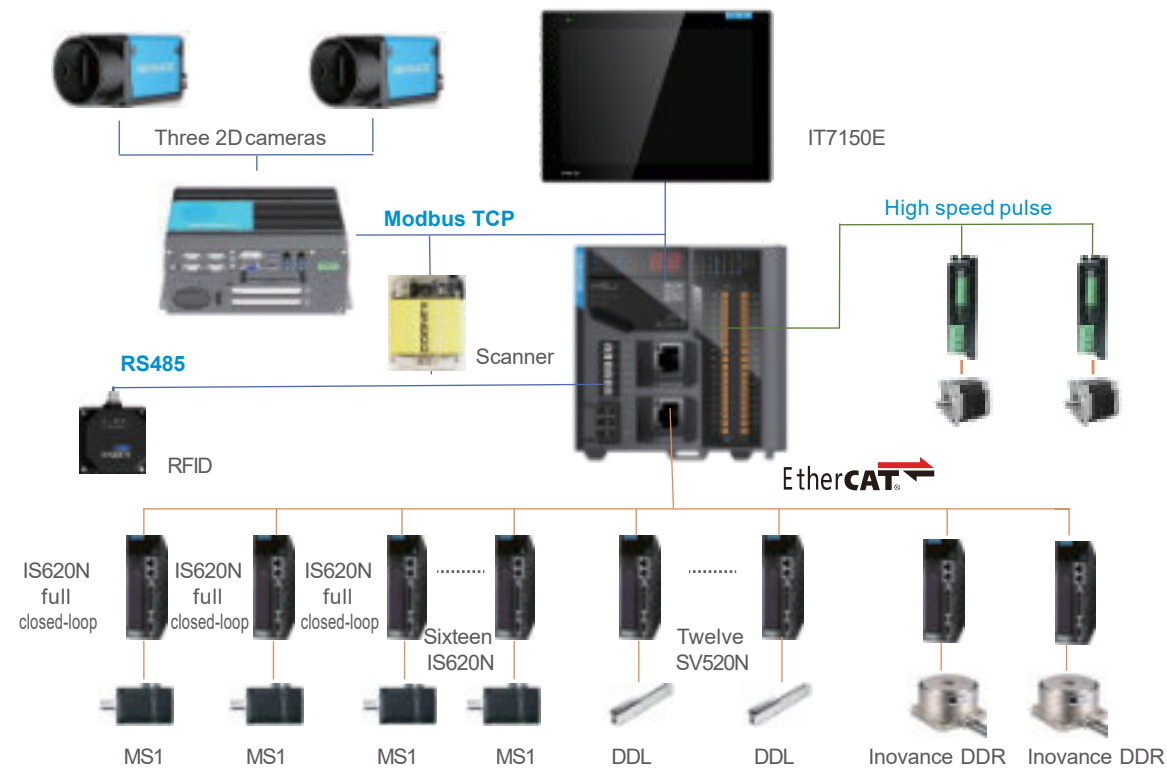
Model	H5U-1614MTD
Axis capacity	32-axis (8-axis for -A8 and 16-axis for -A16) (including EtherCAT axes and local pulse axes)
Communication specifications	EtherCAT* 1: max. 32 axes, max. 72 EtherCAT slaves (including servo axis)
	EtherNet* 1: Modbus-TCP · TCP/IP · UDP
Program capacity	CAN* 1: supports CANlink and CANopen (supports CANopen axis control, but not CANlink)
	RS485* 1
Data capacity	200 K-step user program
Programming language	2 MB user-defined variables, of which 256 KB supports power failure retention
	Approx. 150 KB soft elements, of which No. 1000 and above support power failure retention
High-speed I/O	LD, SFC, supporting FB/FC (LD)
General I/O	4 200K high-speed inputs (2 encoder counting)
	4-axis 200K high-speed output (4-axis pulse output)
Module expansion	16 inputs and 14 outputs (including high-speed I/Os)
Power input	16 modules, remote modules can be connected as EtherCAT slaves
Other interfaces	DC-24V
Dimensions	USB, SD card
Ordering code	L * W * H = 83 * 95 * 90
	1440087

H5U Applications

Visual alignment binding equipment

Improved programming efficiency with function blocks, structures and user-defined variables

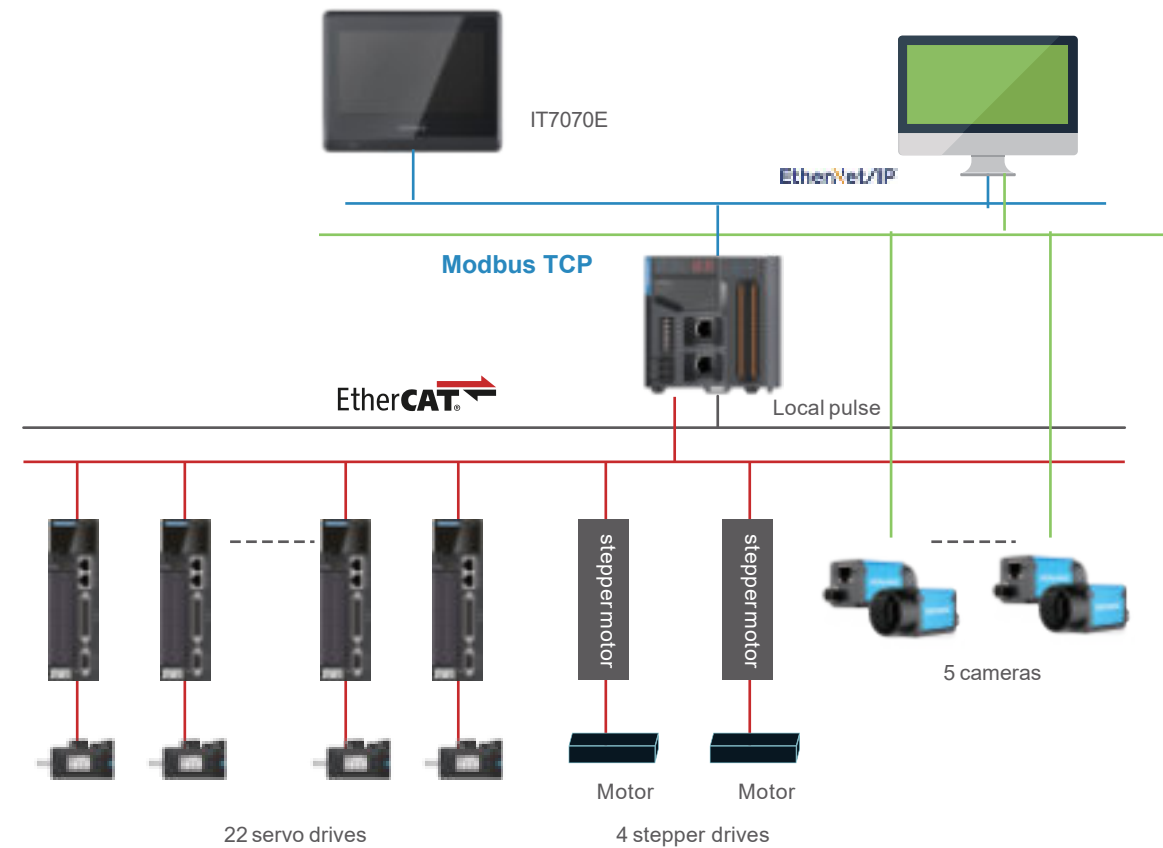
Inovance provides a multi-vision assembly equipment solution where the H5U high-performance small PLC is used as the main controller. The H5U high-performance small PLC can connect to 30 axes through the EtherCAT bus, including 12 linear motors and 2 DDRs, and connects to 2 stepper motors through local high-speed pulse. It is programmed by the function blocks encapsulated by the EtherCAT axis control instruction. It supports information exchange between three 2D cameras and one code scanner through the Socket instruction. It also supports RFID communication through the RS485 communication configuration. H5U has the same capability of a medium-sized PLC. It allows for eightfold efficiency increase compared to the conventional semi-automatic + manual mode. It also enables 60% efficiency increase in programming by providing structures and user-defined variables.



Electronic non-standard labeling machine

EtherCAT multi-axis PTP control enables rapid delivery

An Inovance H5U controls 22 IS620 servo drives through the EtherCAT bus, and the programming is implemented through Inovance EtherCAT axis control encapsulation instructions. 5-camera visual alignment and CIM system data exchange enabled by AutoShop communication settings. Probe instructions allow for high-speed position latching of the encoder connected to H5U. Function block reuse and subroutine call significantly increase programming efficiency. Production efficiency: 2.5s/pcs, 1440pcs/h; mounting height 0.2± 0.15mm; mounting width: 0.23± 0.15mm; CPK: min. 1.33, without deformation and scratches.



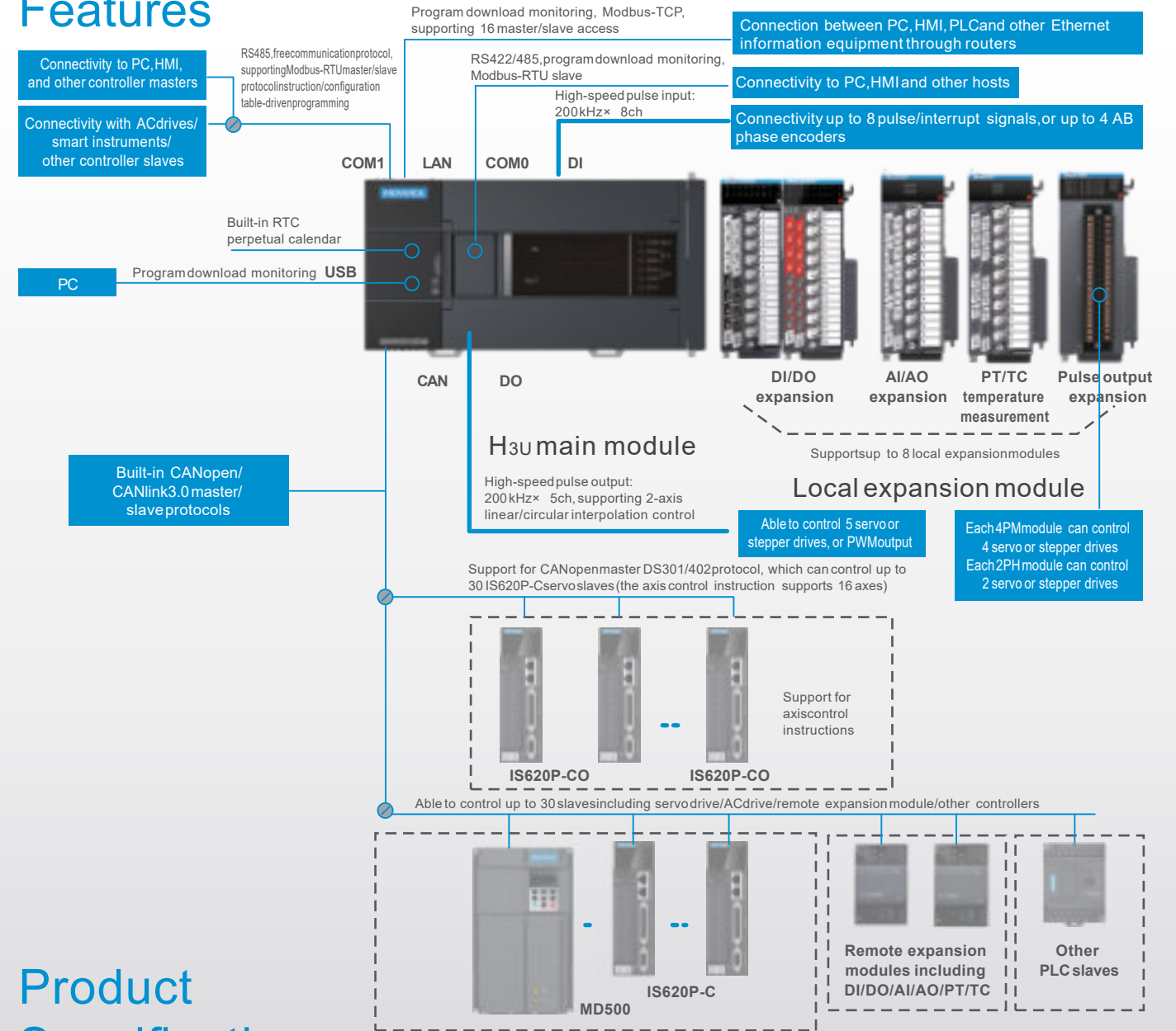
H3U Series

CANbus high-performance small PLC



- Eight 200 k high-speed pulse inputs.
- Five 200 k high-speed pulse outputs; more positioning instructions; support for S-curve acceleration and deceleration.
- Two-axis arc and linear interpolation high-speed output.
- Separate serial communication interfaces COM0 and COM1; support for USB monitoring download.
- The main module provides an Ethernet interface which supports Modbus-TCP.
- The main module provides a CAN communication interface which supports CANopen and CANlink protocols.
- 64 k-step program flash memory without any battery.
- Power failure retention register: 32k words for the R element and 8k words for the D element, no battery is needed.
- 150% increase in overall scanning speed compared with H2U-XP.
- Supports up to 8 GL10 expansion modules.
- Support 8 external interrupt inputs.
- Over 120 new instructions, including floating point calculation, data block processing, matrix processing, character string processing, and positioning instructions.
- Super bright blue LED indicator.

Features



Product Specifications

Model	H3U series high-performance CANbus small PLC
Axis capacity	Up to 16 axes (CANlink or CANopen axis) + 5 pulse axes + 4 GL10-4PM expansion modules (or 4 GL10-2PH)
communication port	EtherNet, CAN, RS485(one), RS422(one), USB
CAN communication	Support for CANlink and CANopen axis control instructions
Program capacity	64K steps
Data capacity	48K word
Storage capacity in case of a power failure	40K word
Basic instruction rate	Logic instructions: 100ns, floating point operation: 4 us
High-speed Input	200K (8)
High-speed Output	200K (5), supports S-type acceleration and deceleration (MR does not support high-speed output)
System time	Supported
Interpolation	2-axis arc and 2-axis straight line
Terminal type	Removable
Local module expansion	Supports up to 512 local expansion I/O points: the number of points is calculated according to the number of local expansion modules (max. 8 local expansion modules, including I/O modules and special expansion modules)
Dimensions	L * W * H = 170 * X * 90 * 90

H3U Applications

National Day parade floats

The ultimate test of the stability of H3U axis control

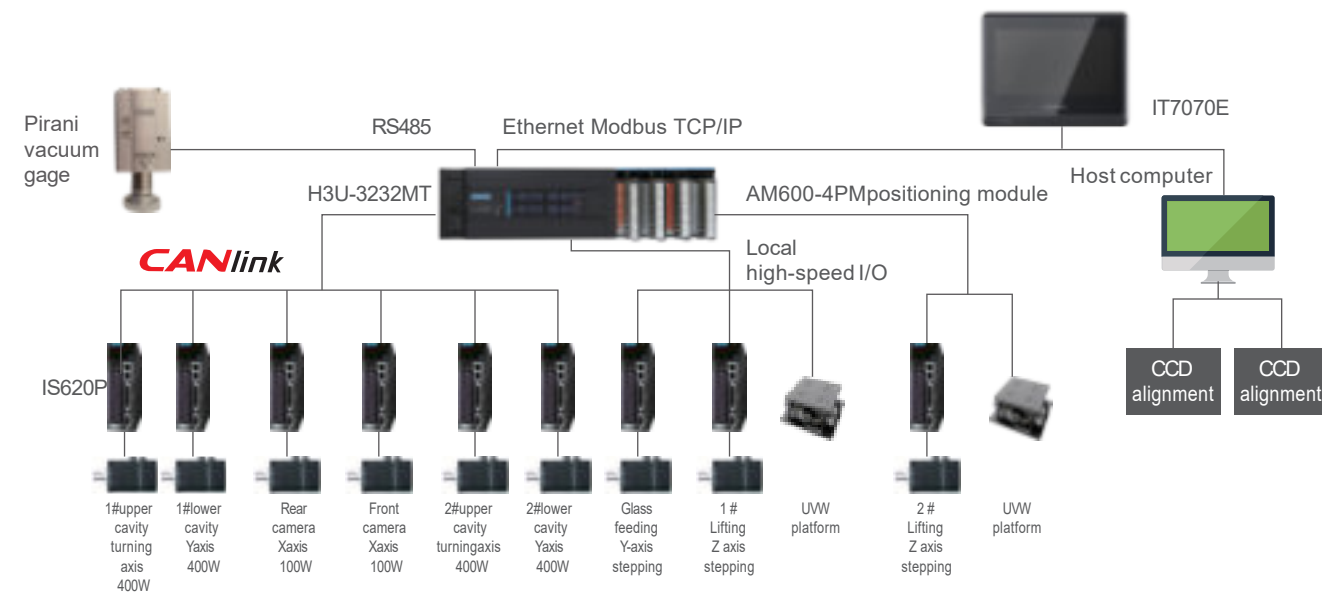
National Day parade floats: as the central controller of the whole vehicle, Inovance's H3U small PLC, which controls IS620P servo drives through CANlink axis control instructions, has proved its stability in extreme conditions.



Curved screen laminating machine

CANlink point control brings supreme performance

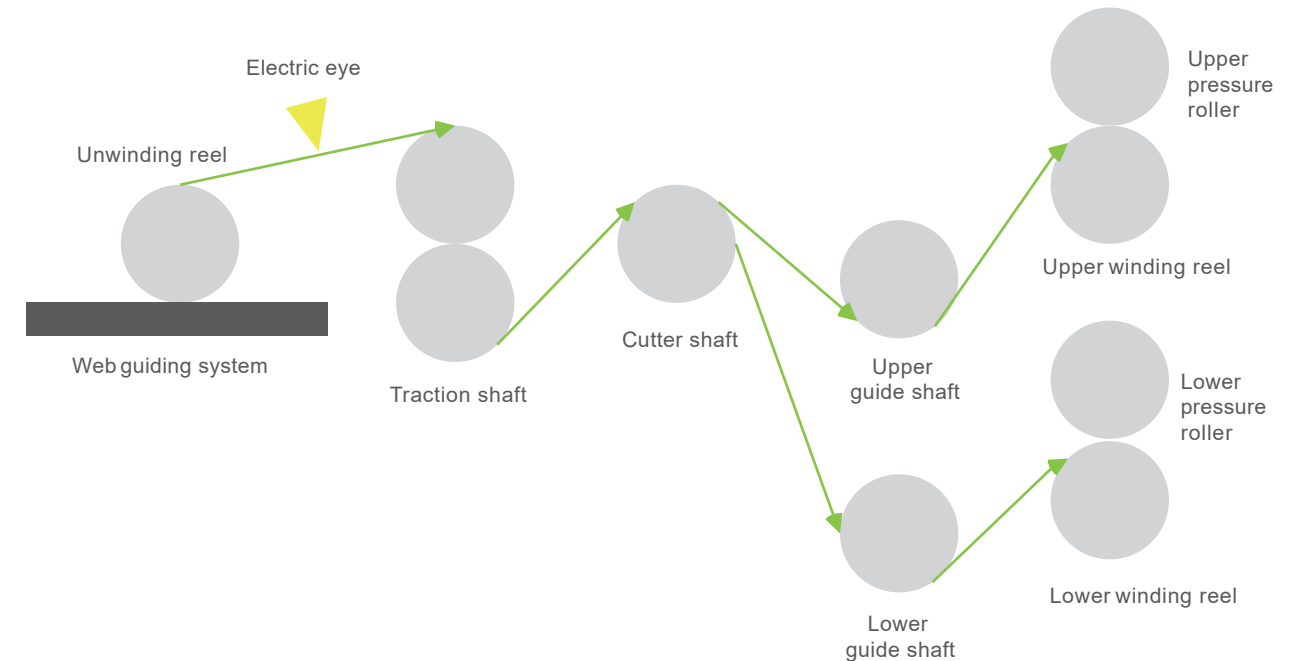
6-axis CANlink axis control through CANlink, and 9-axis pulse control through high-speed output and a 4PM module.
 Freeswitchover between film laminating for curved glass back covers, curved glass touch screens and screen protectors.
 Applicable to: 5" to 5.5" curved glass back covers and curved glass touch screens
 Accuracy: ±0.05 mm
 Quality requirements: No bubbles should be present on the edge of the product
 Production capacity: 150p/1 h



High-speed cutting machine

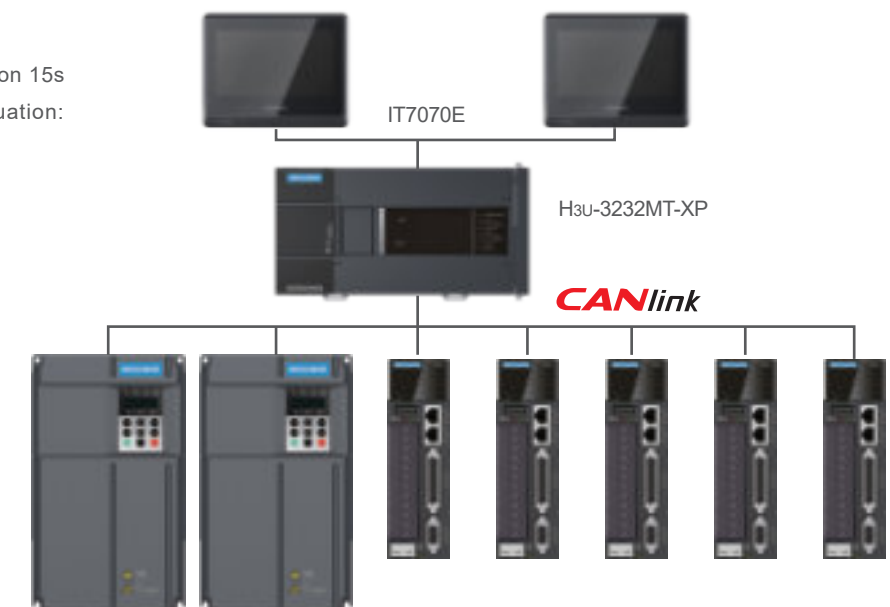
CANlink axis control superposition tension control algorithm enables fast operation

Based on the CANlink bus, this solution uses an H3U small PLC integrated with a tension control algorithm function block to control 5 servo drives and 2 AC drives, simplifying wiring and commissioning.



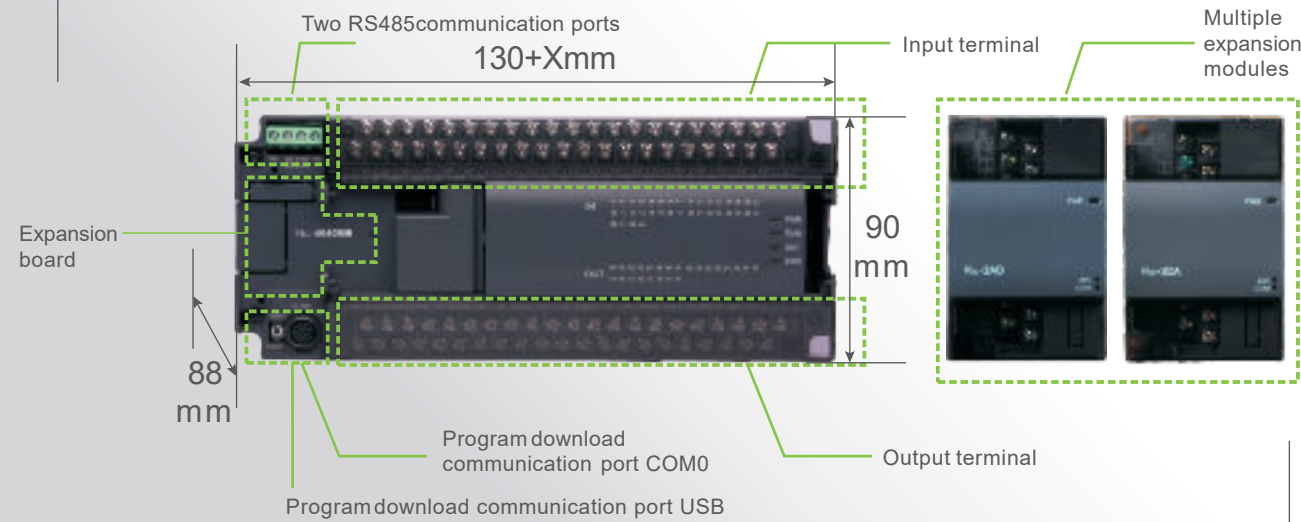
Performance

400 m/min: acceleration 25s, deceleration 15s
 Rewinding and unwinding tension fluctuation: ±2 N, traction: ±1 N



H2U Series

General-purpose small PLC



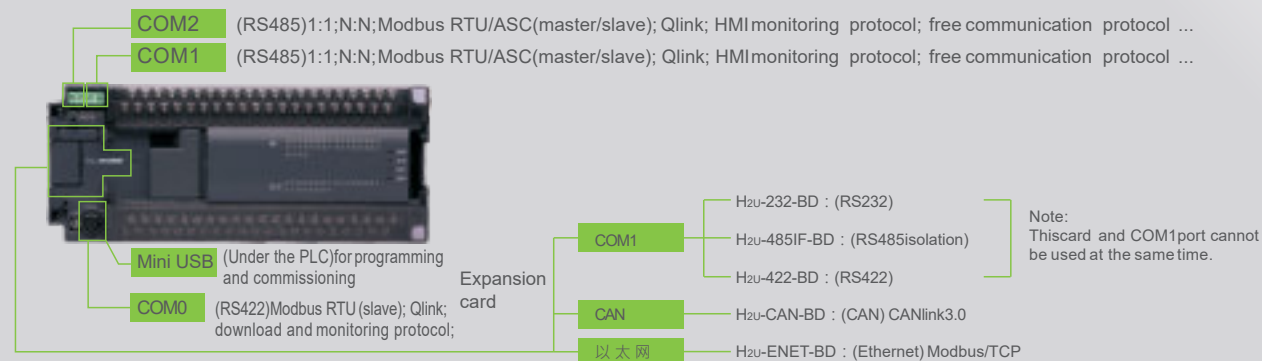
- Provides multi-channel high-frequency high-speed input and output ports, which allow for various motion and positioning control functions.
- Three separate serial communication ports COM0-COM2; support for USB monitoring download and CANlink3.0 networking.
- A variety of communication protocols and communication instructions to facilitate system integration.
- Provides encrypted download and upload of user programs and subroutine encryption to protect the user's intellectual property.
- 16k-step program storage capacity
- Fast computation; 127 subroutines; 4 encryption subroutines and 21 interrupt subroutines; user programs and power failure retention elements are permanently saved under in case of power failure.
- Built-in large-capacity power supply for sensors, HMI, and external auxiliary relays.

Powerful	Customizable	Expandable
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- Support for various external events and external control needs; powerful data computing capability.
- Complex instructions are introduced using a wizard, and communication is achieved using configuration table.
- The expansion module supports various sensors.
- 256 I/Os can be expanded.
- 32 remote modules can be expanded.

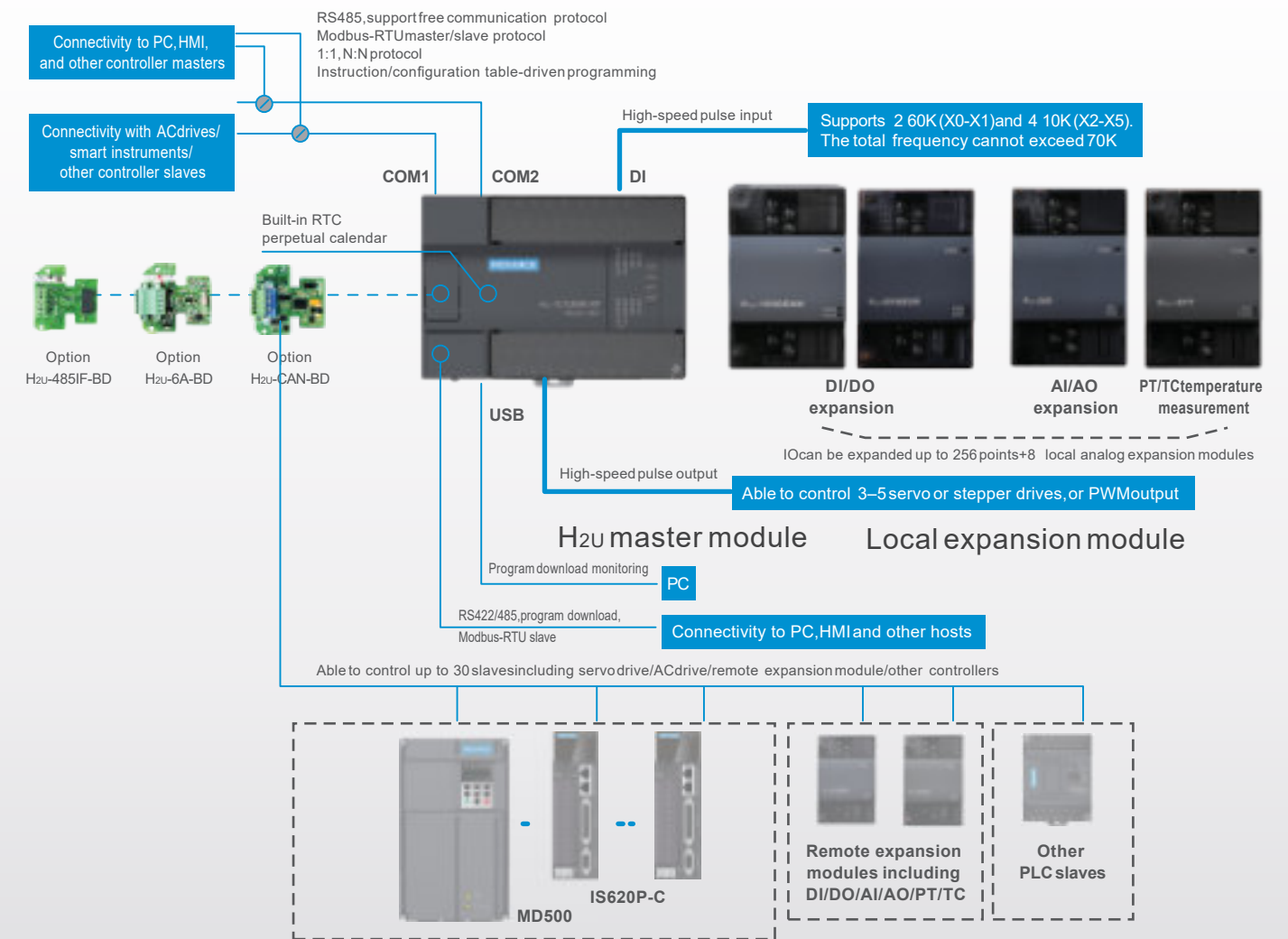
Various Communication Interfaces

Support for a variety of communication protocols reduces costs.



Note: With the Qlink protocol, Inovance's HMI and PLC will automatically communicate at high speed without special setting by the user.

Application Topology



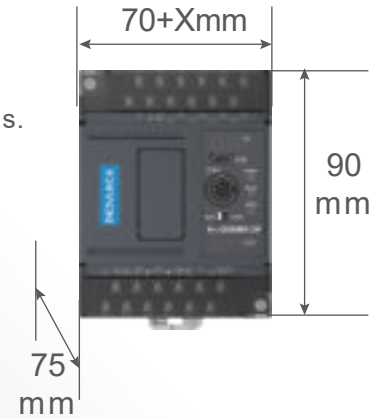
Product Specifications

Model	H2U series general-purpose small PLC
Axis capacity	3 pulse axes
communication port	RS485 (2), RS422 (1)
CAN communication	Supports CAN card
Program capacity	16K steps
Data capacity	10K word
Storage capacity in case of a power failure	8K word
Basic instruction rate	100 ns
High-speed Input	Supports two 60K (X0-X1) and four 10K (X2-X5). The total frequency cannot exceed 70K (except for MTP, MTQ)
High-speed Output	Three 100K (relay type and MTP and MTQ are excluded). S-curve acceleration and deceleration are not supported
System time	Supported
Expansion card	Support function expansion card
Local module expansion	8 I/O modules and special modules
Terminal type	Removable
Remarks	You can connect the 24V terminal reversely for a 24V power supply
Dimensions	L * W * H = 130 + X * 88 * 90

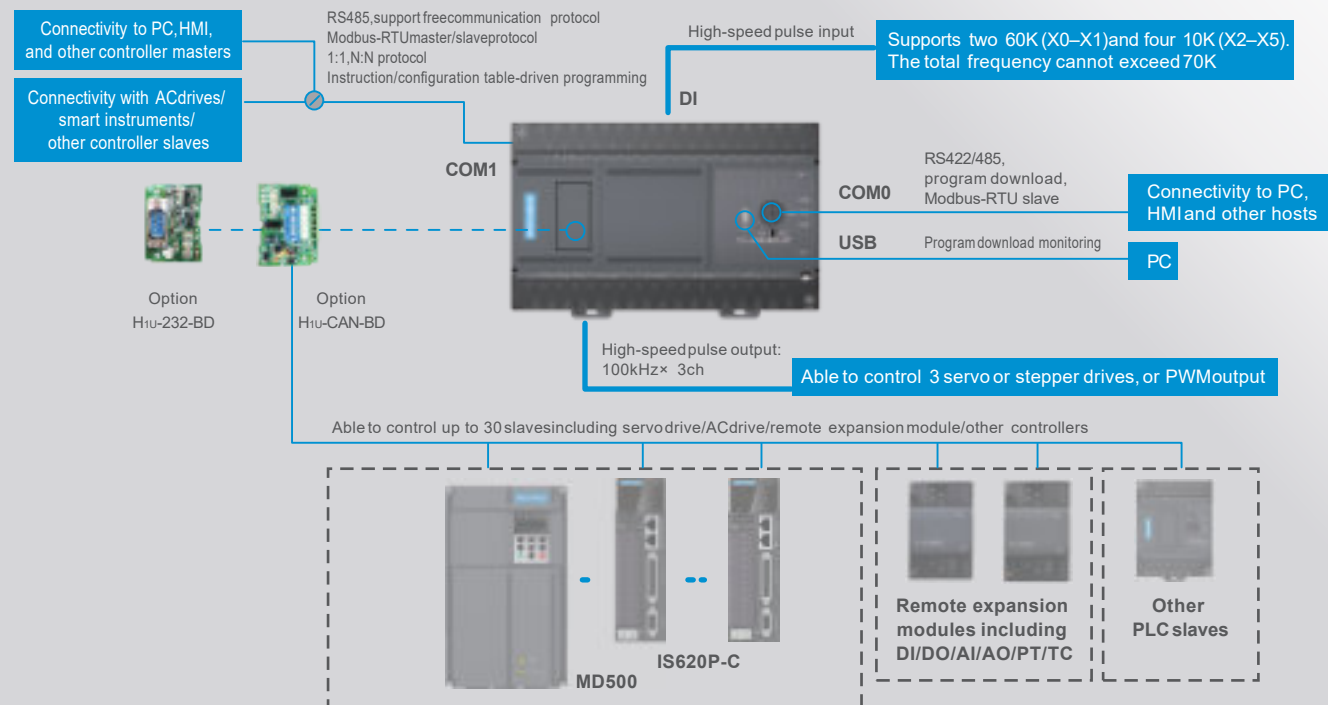
H1U Series

Simplified small PLC

- Provides multi-channel high-frequency high-speed input and output terminals which enable various motion and positioning control functions.
- Two separate serial communication ports, support for USB monitoring download, and various communication protocols.
- Powerful networking capability, supporting CANlink3.0 networking, and providing Modbus instructions to facilitate system integration.
- Provides communication setting function which is normally found in medium-sized PLCs.
- Complete encryption function to protect users' intellectual property rights.
- 16k-step program storage capacity
- The user program and all power failure retention elements are permanently saved in case of power failure.
- The real-time clock is maintained for at least a week when power is off, and no battery is required.



Application Topology



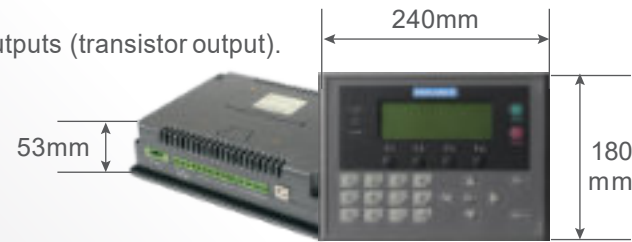
Product Specifications

Model	H1U series simplified small PLC
Axis capacity	3 pulse axes
Communication port	RS485 (1), RS422 (1), USB
CAN communication	Supports CAN card (an H1U-CAN-BD expansion card is required for remote expansion)
Program capacity	16K steps
Data capacity	10K word
Storage capacity in case of a power failure	8K word
Basic instruction rate	100ns
High-speed Input	Supports two 60K (X0-X1) and four 10K (X2-X5). The total frequency cannot exceed 70K
High-speed Output	Three 100K, S-curve acceleration and deceleration are not supported
System time	Supported
Expansion card	Support function expansion card
Local module expansion	Not supported
Terminal type	Removable
Dimensions	L * W * H = 70 + X * 75 * 90

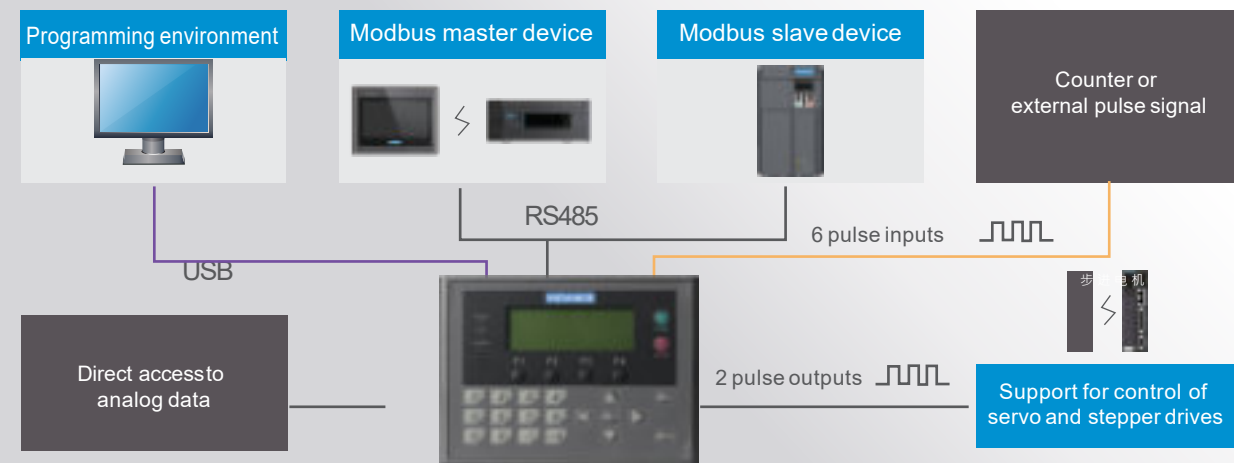
H0U Series

Display and controller integrated multi-function small PLC

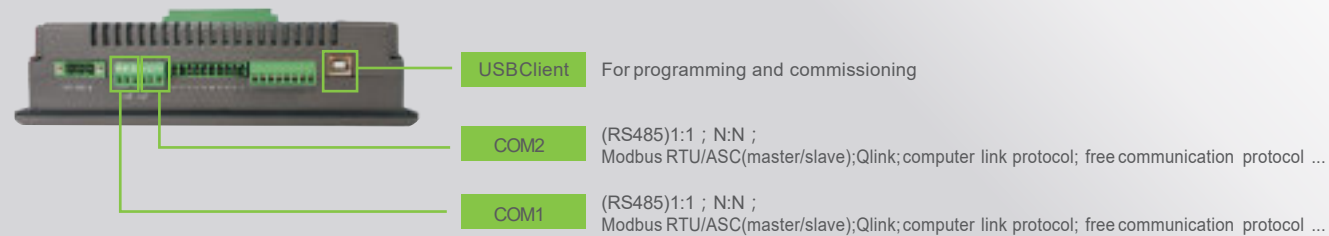
- A controller integrating a PLC and display.
- Support for 6 high-speed inputs and 2 high-speed pulse outputs (transistor output).
- 2 serial RS485 communication ports and 1 USB port.
- Up to 25 customizable function keys.
- Program download tool: AutoShop for PLC and HToolEditor for TOD.



Application topology



Various communication interfaces



Product Specifications

Model	H0U series display and controller integrated multi-function small PLC
Axis capacity	2 pulse axes
Communication port	RS485 (2), USB
Program capacity	8K steps
Data capacity	10K word
Storage capacity in case of a power failure	8K word
Basic instruction rate	100ns
High-speed Input	Supports two 60K (X0-X1) and four 10K (X2-X5). The total frequency cannot exceed 70K
High-speed Output	2 high-speed pulse outputs (transistor output). S-curve acceleration and deceleration are not supported
System time	Supported
Local module expansion	Not supported
Remarks	1-with text function (H1U-CAN-BD can be used for CAN communication. If you need the CAN function, please specify it clearly when ordering) 2--6AT is non-standard. See the manual for details
Dimensions	L * W * H = 240 * 53 * 180

H1S, H2S and H3S Series

Economical small PLC

H3S series economical high-performance small PLC evolved from H3U series
Adaptable to equipment control in mobile phone assembly, packaging and printing, and the like

	Program capacity	Data capacity	High-speed Input	High-speed Output	Ethernet	CANlink/CANopen	System time	Terminal type	Local expansion
H3U-XP	64k	48k	8*200k	5*200k	Supported	Supported	Supported	Removable	Supported
H3S			4*200k						

H2S series economical general-purpose small PLC evolved from H2U series
Suitable for all non-standard automation control applications requiring cost-efficiency

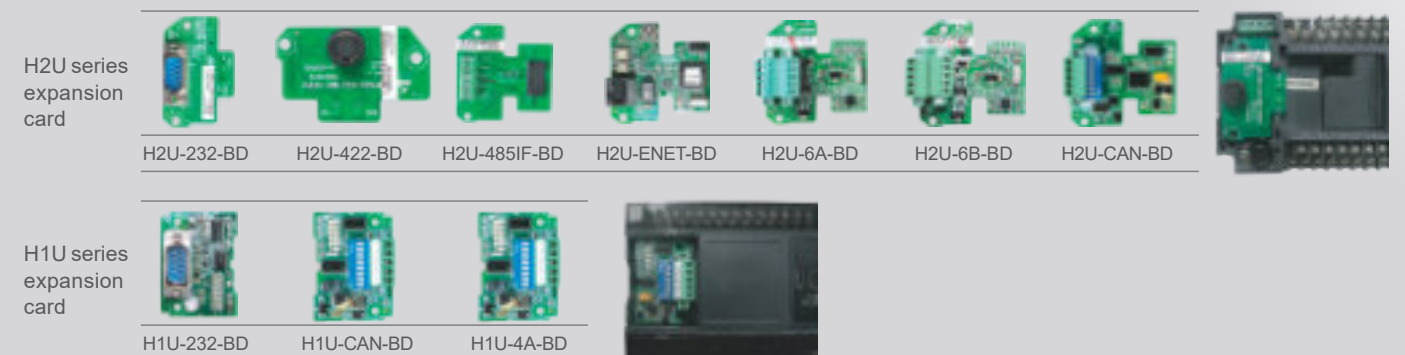
	Program capacity	Data capacity	CAN card	System time	Terminal type	Function expansion card	RS485 interface	Local expansion
H2U-XP	16k	8k	Supported	Supported	Removable	Supported	2	8 special modules
H2S	8k		Not supported	Not supported	Unremovable for 20-point and 32-point models	Supported	1	4 special modules

Note: H2S does not support CAN and Ethernet expansion cards.

H1S series simplified economical small PLC evolved from H1U series
Suitable for logic control of individual equipment

	Program capacity	Data capacity	CAN card	System time	Terminal type	Function expansion card	No. of Points
H1U-XP	16K	8k	Supported	Supported	Removable	Supported	All series
H1S	8K		Not supported	Not supported	Unremovable for models of 30 points and below	Supported	All series

Note: H1S does not support CAN expansion cards.

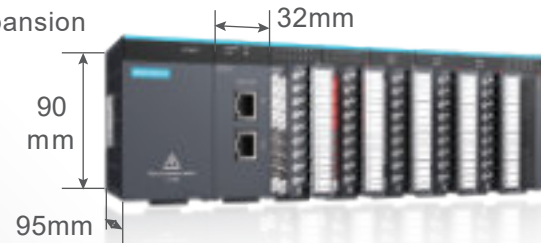


expansion module

GL Series centralized universal module

Supports EtherCATbus. Support communication between the expansion bus and the EtherCATbus through a protocol conversion coupler.

- Support local expansion of H3U, H5U, AM400, and AM600
- Provides a power supply module for better anti-interference
- Can be freely combined with functional modules to form a modular I/O system adapted to field needs
- Covers a full range of expansion modules including digital, analog and temperature measurement modules
- Suitable for centralized applications with a large number of points (256 points, or 16 function modules)



GR series distributed high-speed module

Supports EtherCATbus. Simplified system construction and maintenance without any power supply module saves costs and time for customers.

- Provides hybrid digital modules for both input and output
- Provides high-speed pulse positioning and high-speed count modules
- Provides a rotary DIP switch to set a station number that is independent of the position
- Less wiring is required and is particularly suitable for distributed applications



Seamless connection with third-party standard EtherCAT masters

- Adapted to EtherCAT masters such as Omron NX, NJ series, Beckhoff CX series, and Keyence KV series.

Stable and reliable

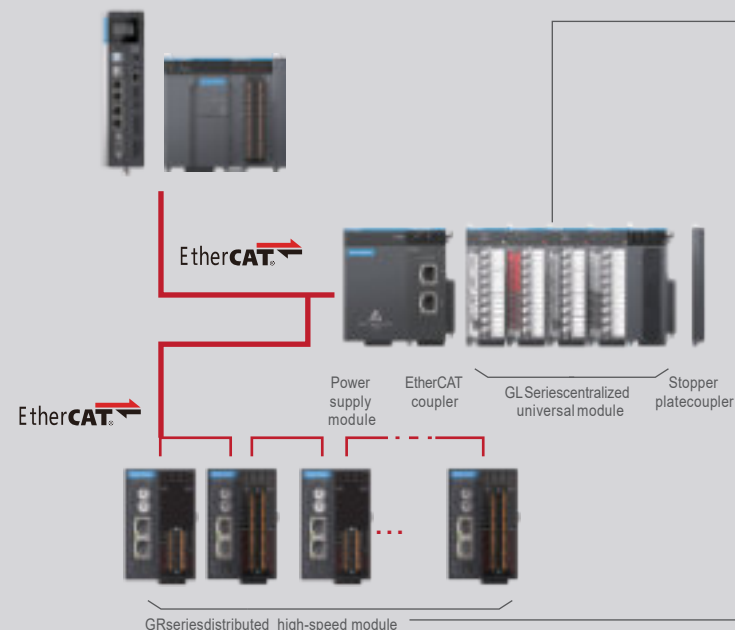
- Widely used by customers in the lithium battery, silicon crystal, mobile phone, and packaging industries, including AAC, Luxshare Precision, BOE, Lens Technology, and BYD.

Centralized universal module

Working on the basis of the open EtherCATbus, it can be used with function modules to form a modular I/O system. The expansion bus is able to communicate with the EtherCATbus through a protocol conversion coupler.

Distributed high-speed module

It works on the basis of the open EtherCATbus and requires no additional power supply module. The system construction and maintenance are simple, which saves costs and time of customers.



Product Specifications

Category	Model	Description	Terminal Type
GL10series power supply module	GL10-PS2	GL10series local expansion module, power supply module, used to power AMseries PLC or ECTA coupler	Screw
GL10series coupler module	GL10-RTU-ECTA	EtherCAT coupler, supporting up to 16 I/O modules, modules like GL10-3200END and 4TC, and auto scanning	
	GL10-RTU-COP	CANopen coupler, supporting up to 16 I/O modules	
GL10 centralized expansion module (connected to ECTA coupler or PLC for I/O expansion)	GL10-1600END	GL10series local expansion module, 16DI, 24 VDC input, support for source or sink type	Screw
	GL10-3200END	GL10series local expansion module, 32DI, 24 VDC input, support for source or sink type	Spring Clamp
	GL10-0016ETN	GL10series local expansion module, 16DO, transistor output (sink), max. current 500 mA@24VDC	Screw
	GL10-0016ETP	GL10series local expansion module, 16DO, transistor output (source), max. current 500 mA@24VDC	Screw
	GL10-0016ER	GL10series local expansion module, 16RO, rated current 2 A@250VDC	Screw
	GL10-0032ETN	GL10series local expansion module, 32DO, transistor output (sink), max. current 500 mA@24VDC	Spring Clamp
	GL10-4AD	GL10series local expansion module, 4AD, support for voltage/current analog input, 16-bit resolution, 0.1% error, 2ms sampling period	Screw
	GL10-4DA	GL10series local expansion module, 4DA, support for voltage/current analog output, 16-bit resolution, 0.1% error	Screw
	GL10-4PT	GL10series local expansion module, 4-channel RTD, 24bit, supports PT100/PT1000/Ni1000, 0.1°C resolution	Screw
	GL10-4TC	GL10series local expansion module, 4-channel TTEMPMEAS module, 24-bit, support for thermocouples such as J/K/R/S, 0.1°C resolution	Screw
	GL10-8TC	GL10series local expansion module, 8-channel TTEMPMEAS module, 24-bit, support for thermocouples such as J/K/R/S, 0.1°C resolution	Screw
	GL10-4PM	GL10series local expansion module, 4-channel (200kHz each) single-ended signal positioning output module (only used with H3U)	Spring Clamp
	GL10-2PH	GL10series local expansion module, 2 (4 MHz each) DIFF outputs (only used with H3U)	Spring Clamp

Category	Model	Description	Terminal Type
GR10 distributed expansion module (can be connected to the EtherCAT bus as a slave)	GR10-0808ETNE	GR10series EtherCAT high-speed expansion module, 24 V, integration of communication and I/O, refresh at max. 500 us	Spring Clamp
	GR10-1616ETNE	GR10series EtherCAT high-speed expansion module, 24 V, integration of communication and I/O, refresh at max. 500 us	Spring Clamp
	GR10-4ADE	GR10series EtherCAT high-speed expansion module, 4-channel high-speed AI module, refresh at max. 500 us	Spring Clamp
	GR10-4DAE	GR10series EtherCAT high-speed expansion module, 4-channel high-speed AO module, refresh at max. 500 us	Spring Clamp
	GR10-8TCE	GR10series EtherCAT high-speed expansion module, 8-channel high-speed TC signal detection module, refresh at max. 500 us	Spring Clamp
	GR10-4PME	GR10series EtherCAT high-speed expansion module, 4-channel (200kHz each) single-ended signal positioning output module, refresh at max. 500 us	Spring Clamp
	GR10-2HCE	GR10series EtherCAT high-speed expansion module, 2-channel ABZ high-speed counting module, 2 probes per channel, refresh at max. 500 us	Spring Clamp
	GR10-8PBE	GR10series EtherCAT high-speed expansion module, 1-channel ABZ high-speed counting module, 8 probes, refresh at max. 500 us	Spring Clamp
	GR10-2PHE	GR10series EtherCAT high-speed expansion module, 2 (4 MHz each) DIFF outputs, refresh at max. 500 us	Spring Clamp
	GR10-4TCS-PID	GR10series EtherCAT high-speed expansion module, AI-70482D7-4TC input TEMP controller	Screw
	GR10-EC-6SW	GR10series EtherCAT high-speed expansion module, 6-point EtherCAT branch module, supporting serial and parallel connection	

Device Name	Module Name	Module Type	Function	Terminal Type
GR10-32ETP8AME	32 source outputs 8-analog hybrid expansion module	1600	16DI	Spring Clamp
		0016	16DO	Spring Clamp
		4AD	4AI	Spring Clamp
		4DA	4AO	Spring Clamp
		1HC	1 AB phase counter with comparison output	Spring Clamp
GR10-28ETP12AME	28 source outputs 12-analog hybrid expansion module	1600	16DI	Spring Clamp
		0012	12DO	Spring Clamp
		8AD	8AI	Spring Clamp
		4DA	4AO	Spring Clamp
GR10-4EN4ADE	4 source inputs 4AI Hybrid expansion module	0400	4DI	Spring Clamp
		4AD	4AI	Spring Clamp
		1SR	1 serial port	Spring Clamp

Note that AM600-XXX modules will be gradually replaced by GL10-XXX and GR10-XXX modules. It is recommended to choose GL10-XXX modules

- Local expansion modules GL10-XXX and AM600-XXX connected to ECTA or PLC have the same electronic tag (identical software and hardware but different silkscreen), therefore they are interchangeable. For example, a GL10-1600 can directly replace an AM600-1600 module.
- The AM600 and GR10 ECTA modules have a different identification code and default values from other individual EtherCAT (remote) module. Therefore, they are uninterchangeable.
- AM600-0032 and AM600-3200 require an additional adapter board, while GL10-0032 and GL10-3200 must only use the terminals delivered with them.

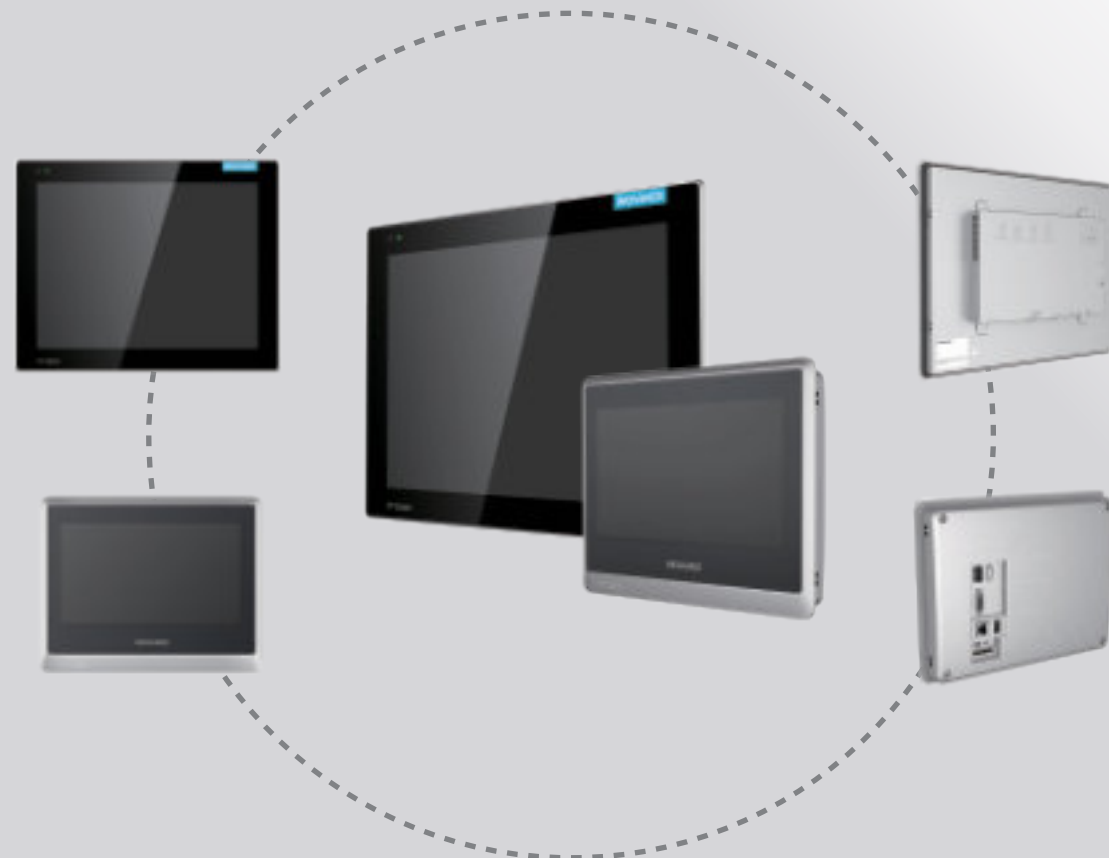
IT7000 Series

High-performance HMI, intelligent process UI platform

- Exquisite information display and smooth operation
- Cover applications from low-end to high-end
- Industry-level manufacturing technology
- Built-in InoTouchPad configuration software with flexible configuration functions and ease of use
- Abundant image resources, programmable UI style, and perfect operation UI
- Support for serial port, Ethernet, and WIFI-based stand-alone and multi-unit network communication
- Support for major PLC and AC drive products, servo communication protocols, and Modbus and Modbus TCP standard protocols
- The HMI screen can be cast to a mobile device such as mobile phone through VNC
- With highly extendable programming interfaces, advanced users can program their own plug-ins and dedicated communication protocols to meet their industry-specific needs

Attractive and powerful

- High display-to-body ratio
- Slim and light
- 15" aluminum alloy case



Model

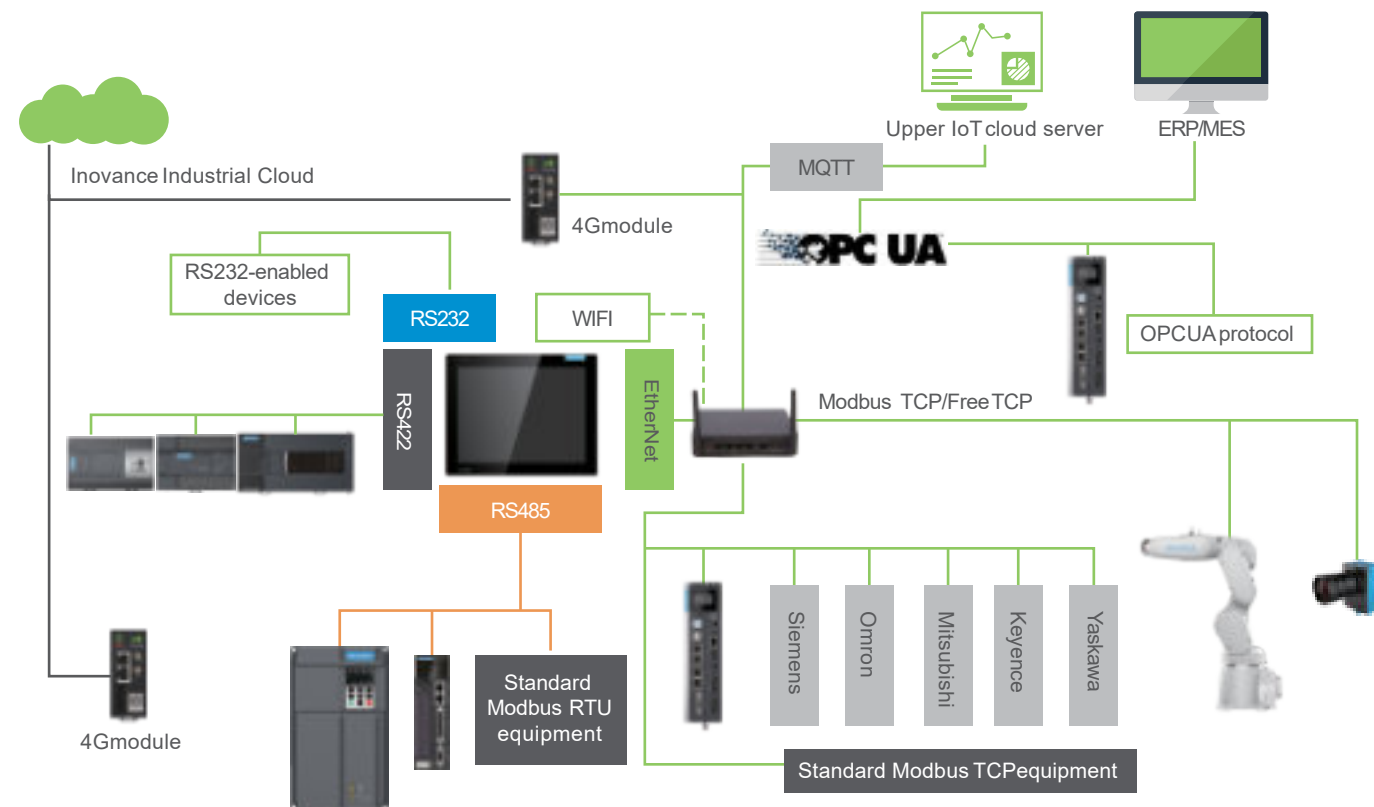
IT7070T/IT7070S	IT7070E	IT7100E/IT7100S	IT7150E
7.0" T: standard S: economical	7.0" E: with Ethernet interface	10.1" E: with Ethernet interface S: cost-effective	15.0" E: with Ethernet interface

Hardware Specifications

Model	IT7070E	IT7070T	IT7070S	IT7100E	IT7100S	IT7150E
Display size	7.0"			10.1"	15.0"	
Resolution	800*480			1024*600	1024*768	
Dimensions L * W * D (mm)	200*146*35			271*213*36	367.8*294.8*53	
CPU	Cortex A8 600MHz			Cortex A8 1Ghz		Cortex A8 1Ghz
RTC	✓	✓	✓	✓	✓	✓
DRAM	128MB			256MB DDR3	128MB DDR3	256MB DDR3
Flash	128MB			256MB	128MB	256MB
Brightness (cd/m ²)	350			350	300	
Display Color	24-bit true color			24-bit true color		24-bit true color
Backlight	LED			LED		LED
Backlight service life	35000hrs			30000hrs		50000hrs
SD card interface	✓	-	-	✓	-	✓
USB drive interface	USB 2.0 interface * 1					
USB download interface	Mini USB interface * 1					
Ethernet interface	✓	-	-	✓	✓	✓
Serial port	COM1 (RS422/RS485) COM2 (RS232) COM3 (RS485)	COM1 (RS422/RS485) COM2 (RS232)	COM1 (RS422/RS485)	COM1 (RS422/RS485) COM2 (RS232) COM3 (RS485)	COM1 (RS422/RS485)	COM1 (RS422/RS485) COM2 (RS232) COM3 (RS485)
Panel IP rating	Front panel IP65, back cover IP20			Front panel IP65, back cover IP20		Front panel IP65 Back cover IP20
product code	01450039	01450030	01450038	01450036	01450037	01450028

Various Flexible Networking Solutions

- PLC communication solutions of Inovance and other major manufacturers
- Communication between field devices, remote devices and mobile devices through Ethernet and WIFI
- OPCUA-based information system



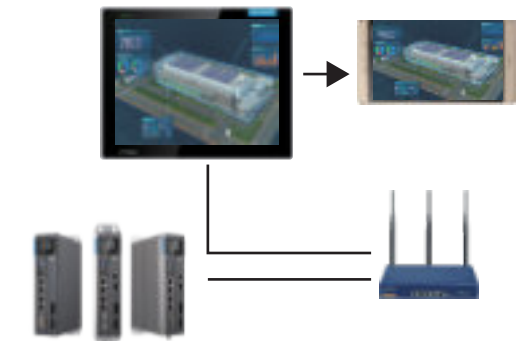
Protocol	Description
Inovance	All PLC, servo, AC drive, and HMI products
Siemens	Supports s7-200, smart200, s7-1200, s7-1500, s7-300 (supporting S7 Ethernet protocol, PPI is in development)
Mitsubishi	FX1N/FX2N/FX3U/FX3G/FX5U, Q/L series (supporting MC Ethernet protocol and FX computer link protocol)
Omron	CP series, CJ series, NX series, NP series, and NJ series (supporting FINS serial port and Ethernet protocol, EIP is in development)
Panasonic	FP series and FP2 series (supporting serial port protocol, Ethernet is in development)
Yaskawa	CP series, MP2300 (in development)
Keyence	KV series (in development)
Modbus	Standard Modbus equipment
OPCUA	OPCUA Client; Server is not supported
MQTT	Supports standard MQTT protocol
Free communication protocol	Inovance PLCs (H1U/H2U/H3U/H5U) that support free communication protocol, and other third-party devices; supports client and server

Cross-Platform Configuration Software

The full-featured InoTouchPad, which is used to build a small SCADA host controller system, can run on PCs and IPCs, as well as traditional embedded Linux HMI platforms.

Flexible expansion

- Graphics, text, data objects can be freely configured into various functions
- Expandable software platform allows users to import customized controls
- Canvas control script to draw graphics freely
- Screen can be cast to a mobile device (mobile phone or tablet) through VNC



Comfortable interaction

- Support for input and display of all standard characters
- Support for import of most vector and raster images
- 中文输入
- Support for multiple visualizations of statistical data



Feature-rich

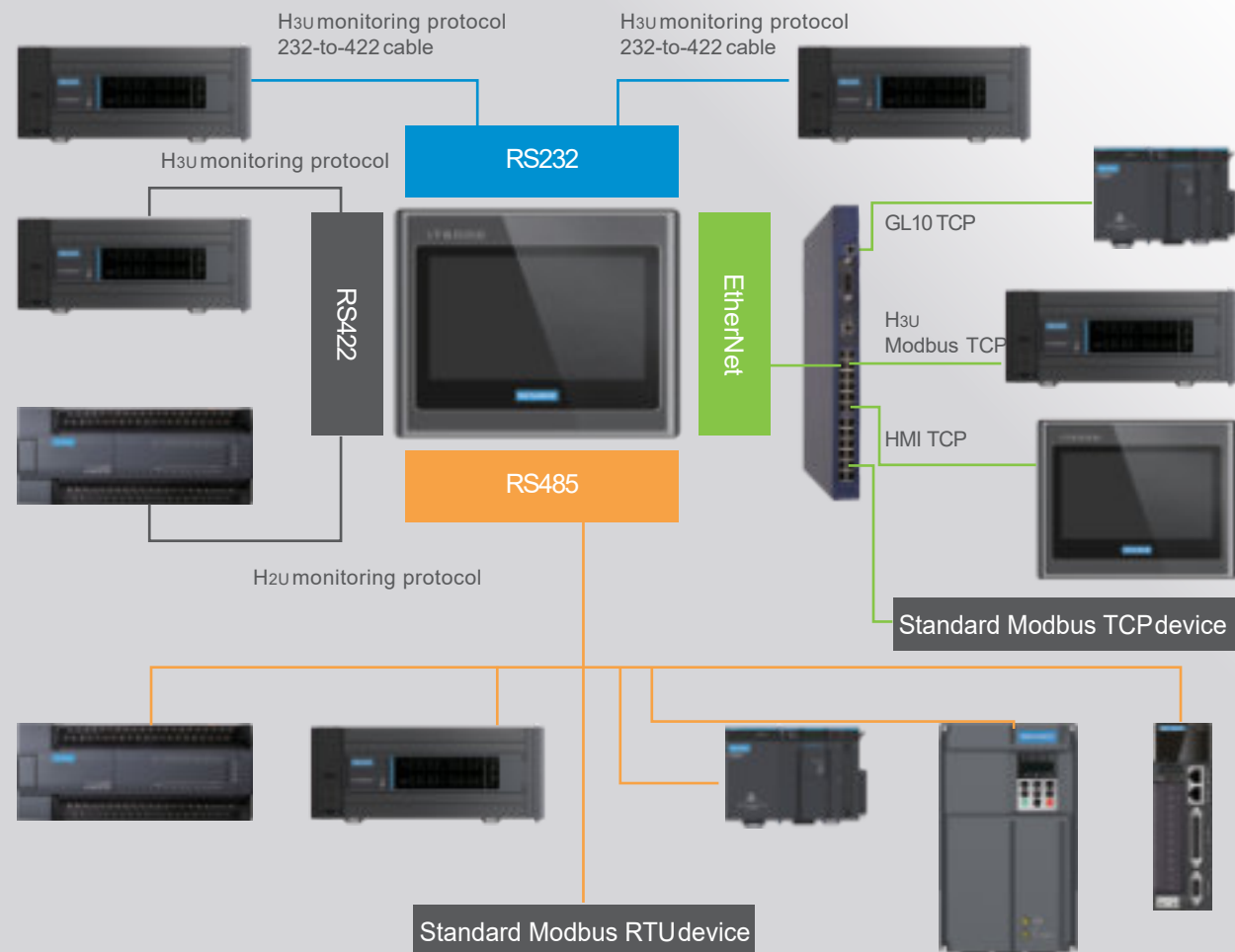
- The Gcode program can be edited and downloaded to the controller for execution
- Trend chart and oscilloscope functions allow for sampling of the continuous waveform of the slave computer
- Historical data recording allows for saving specified records in an HMI local or extended USB drive or SD card. You can check and search for these records through the data view, and print them by the printer
- The recipe function allows manipulation of multiple nameable recipes



IT6000 Series

General-purpose HMI

- 7" model: TFT display, 800 * 480, 65535 colors
- 10" model: TFT display, 1024 * 600, vivid display
- 32 MB user program
- 3 serial ports, 2 USB and LAN interfaces
- The serial port supports standard ModbusRTU master/slave communication protocol
- The proprietary Qlink protocol is automatically enabled for communication with Inovance PLCs
- The Ethernet port supports ModbusTCP master/slave communication protocol
- Direct communication with Inovance PLCs and servo systems
- Built-in major PLC communication protocols of Siemens, Mitsubishi, Omron, Delta and Panasonic
- Process data storage and HMI and PLC program upgrade with a USB drive

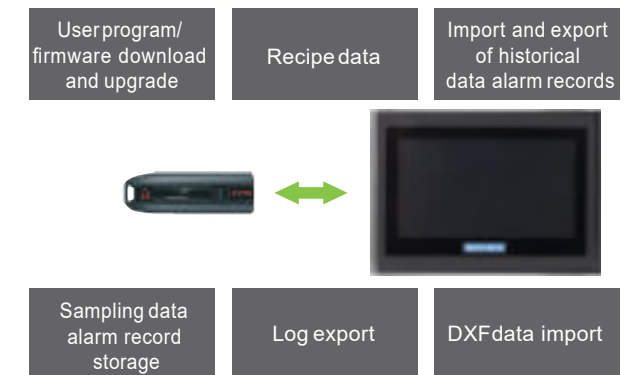


Multi-dimensional networking

- Supports communication networking solutions with all PLCs, AC drives, and servo drives of Inovance
- Supports standard Modbus and ModbusTCP devices, can be either a master or slave
- Supports PLCs of major manufacturers such as Siemens, Mitsubishi, Omron, Delta, and Panasonic

Import and export

- Recipe data
- Historical data
- Sampling data
- Log
- DXF data



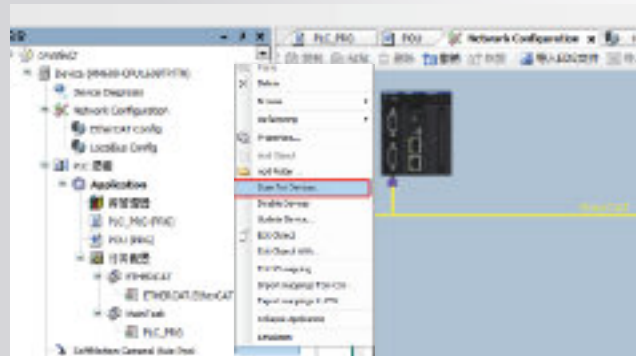
Hardware Specifications

Model	IT6100E	IT6070E	IT6070T	IT6043T
Display size	10.1"	7.0"		4.3"
Resolution	1024*600	800*480		480*272
Dimensions L * W * D (mm)	271*213*40	200*146*42		128*102*35
CPU	Cortex A8 600Mhz			
RTC	✓			
DRAM	128MB DDR3			
Flash	128MB			
Brightness (cd/m ²)	350	300		400
Display Color	24-bit true color			
Backlight	LED			
Backlight service life	30000hrs			
Recipe memory	256kB			
SD card interface	✓	✓	✓	-
USB type A port	✓	✓	✓	-
USB type B port	✓	✓	✓	✓
Ethernet interface	✓	✓	-	-
Serial port	COM1 (RS422/RS485) COM2(RS232) COM3(RS485)	COM1 (RS422/RS485) COM2(RS232) COM3(RS485)	COM1 (RS422/RS485)	COM1 (RS422/RS485) COM2(RS232) COM3(RS485)

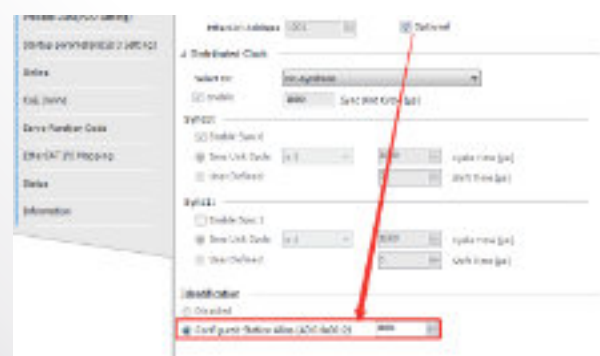
InoProShop

Suitable for intelligent controllers and medium-sized PLCs

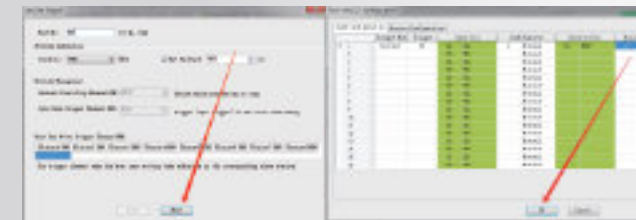
Auto scan



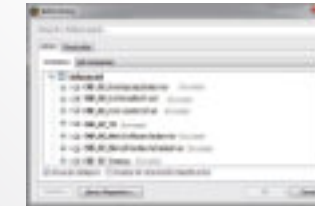
Station alias



Communication configuration wizard

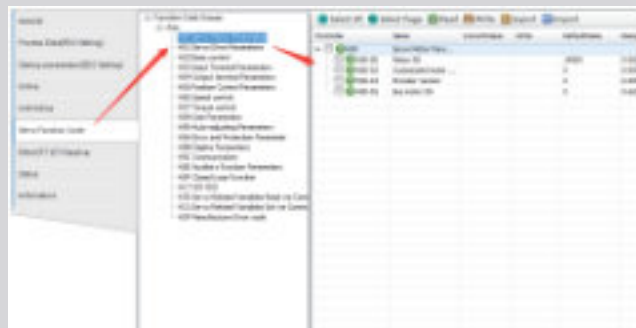


Built-in industry processlibraries

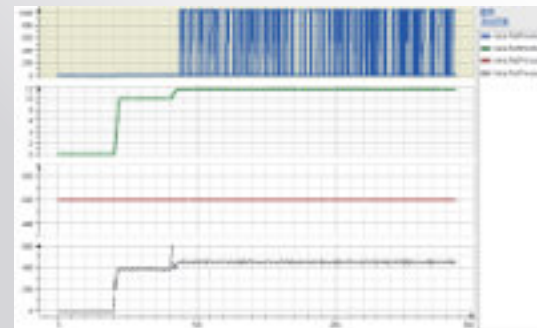


- Variable speed algorithm
- Rewinding and unwinding algorithm
- Web guiding algorithm
- Tension control algorithm
- High-precision color mark tracking algorithm
- Multi-axis synchronization algorithm

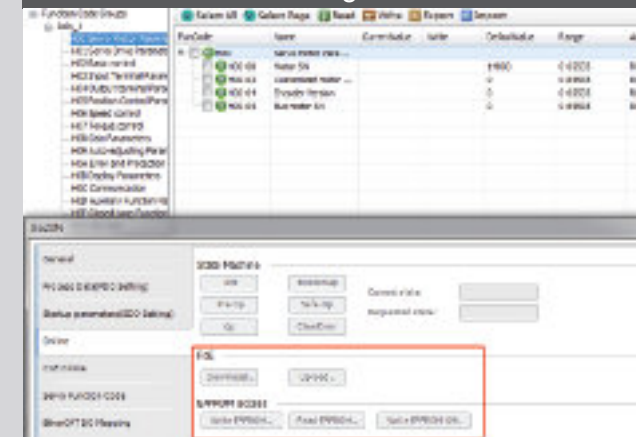
One-key export and import of axis parameters



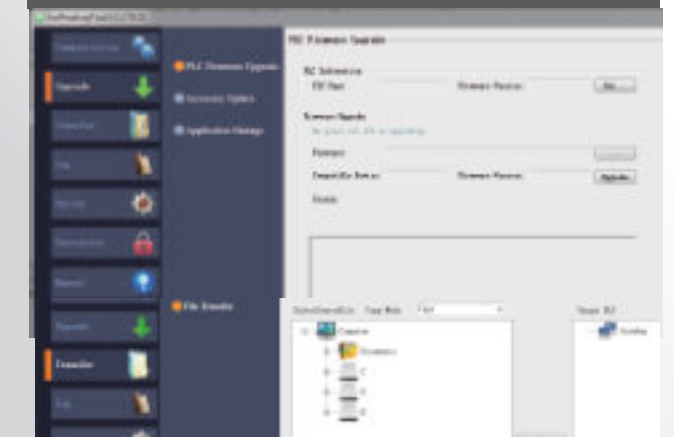
Oscilloscope



Support for batch alias renaming, batch operation of servo parameters, batch upgrade of the slave XML file, and batch disabling device functions

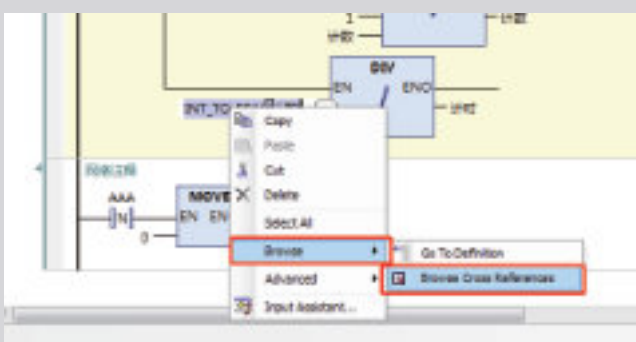


InoProShopTool

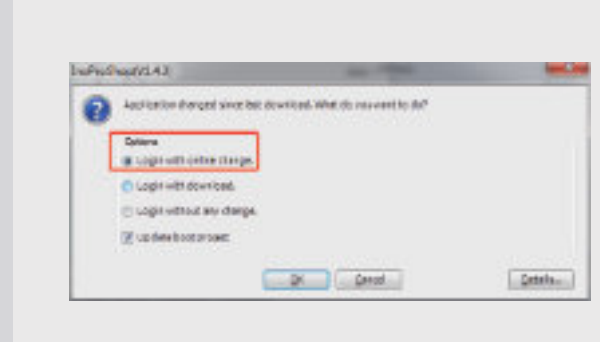


Can be installed separately, and can be used for upgrading PLC firmware and user programs and copying files on a terminal device.

Crossfind

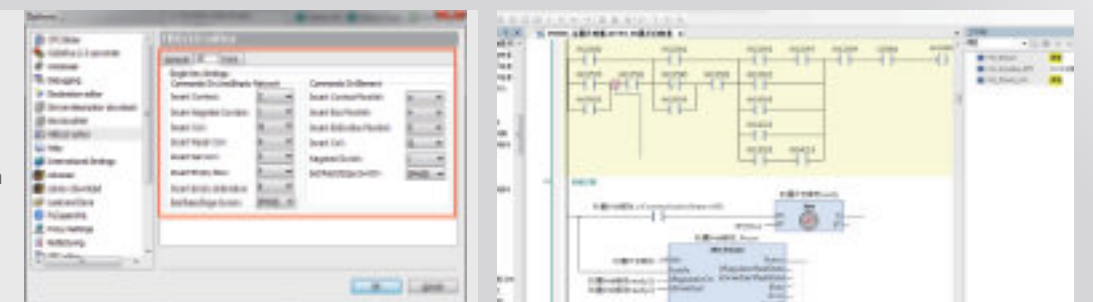


Online modification



Easy to use ladder diagram

- Selection
- Copy and paste
- Manual marking
- Function block association
- Drag and drop
- One-button function

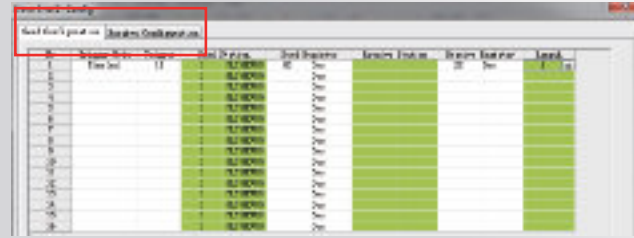


AutoShop

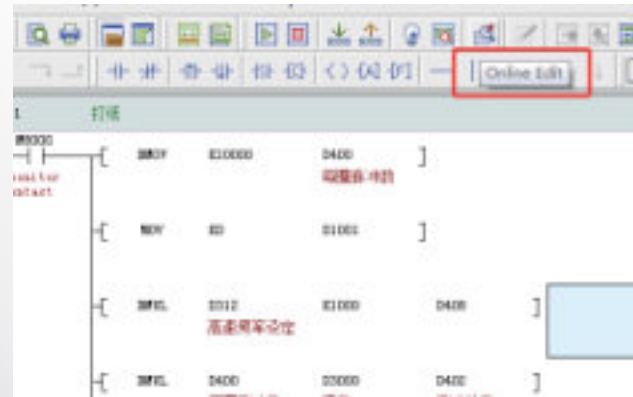
Suitable for small PLCs

Communication configuration wizard

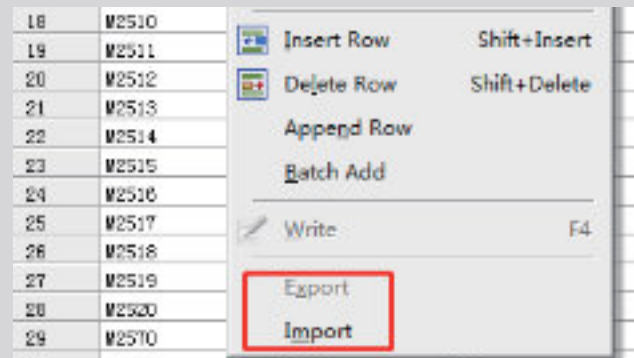
Convenient configuration for serial communication, CANlink3.0, Modbus, and Ethernet



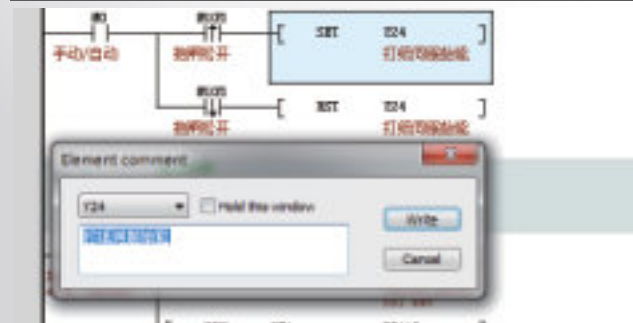
Online modification



Import and export of comments



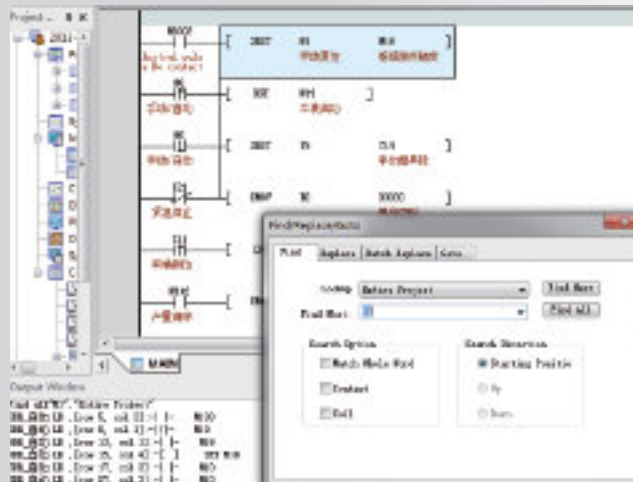
Easy to use network notes



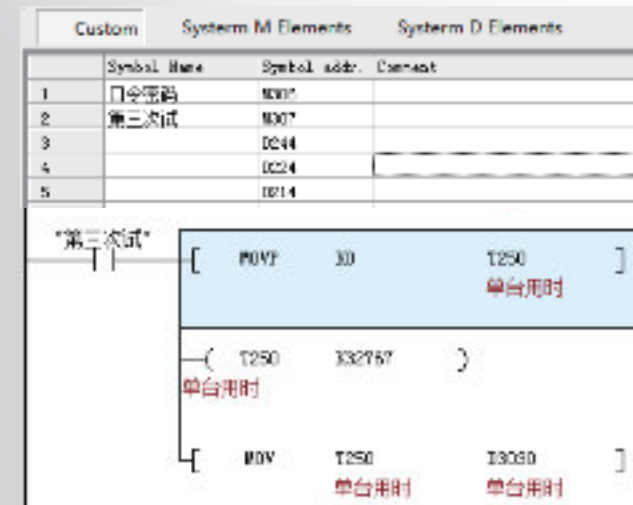
Oscilloscope (timing diagram + trajectory diagram)



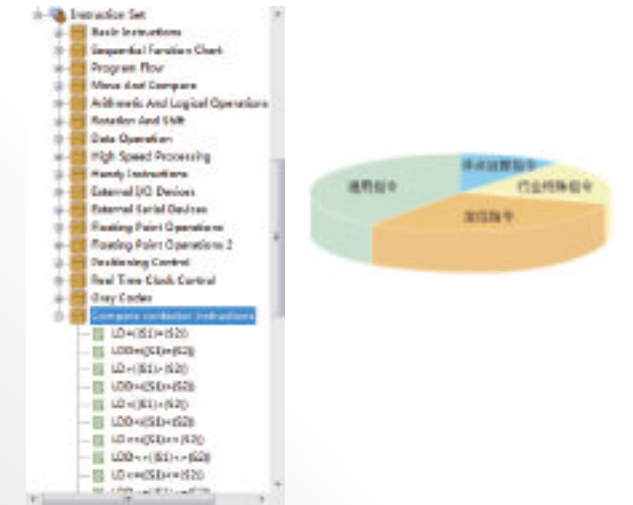
Cross search



Symbolic addressing

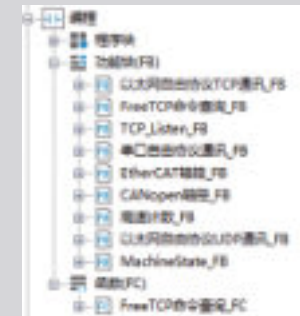


Complete instruction set

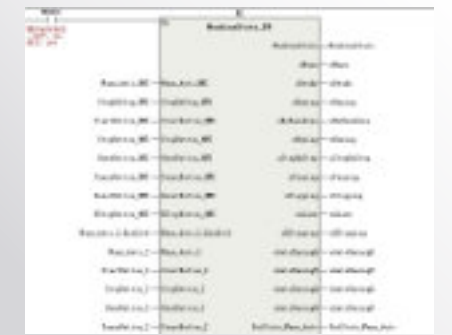


* Note: The following 6 features are only available in H5U small PLCs

Support for FB/FC



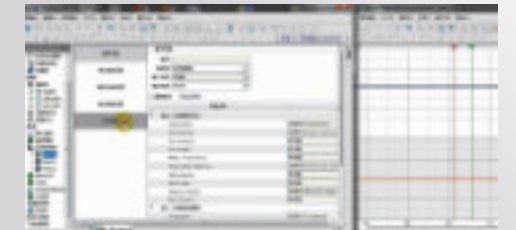
Insertion of graphical block instructions in ladder diagram



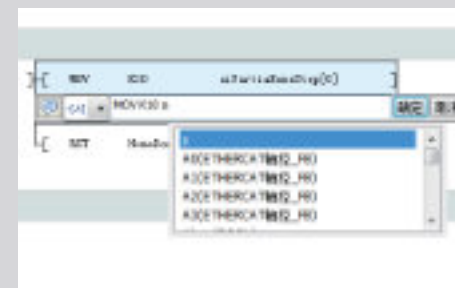
User-defined variables



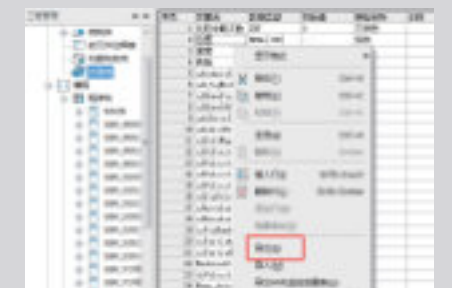
Graphical online commissioning interface



Smart suggest



Direct user-defined variable communication with IT7000 touch screen



InoTouchPad

Suitable for IT7000 series HMIs




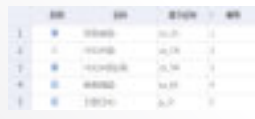

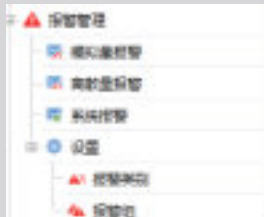




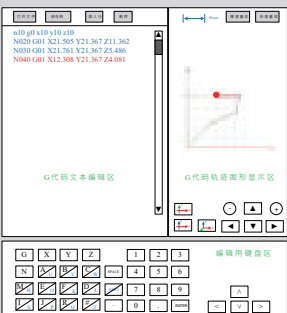
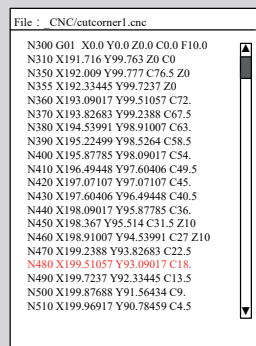
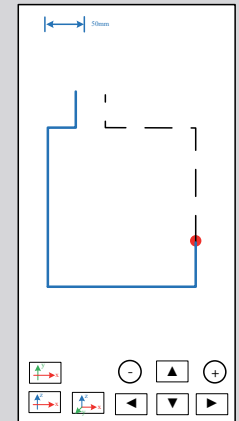
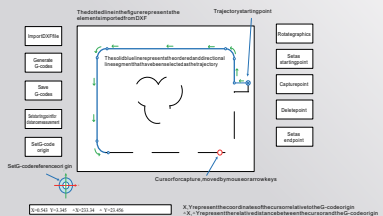
Full configuration programming 	Configuration by dragging variables (support for third-party customization + flat design) 	DIY controls (support for JavaScript) 	Support for all major languages 	VNC 
Alarm event 	Recipe management 	User permissions 	Style customization 	Gallery 

Table editing, and import and export of excel and csv files



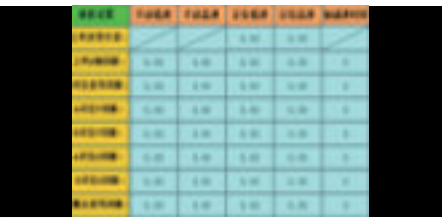
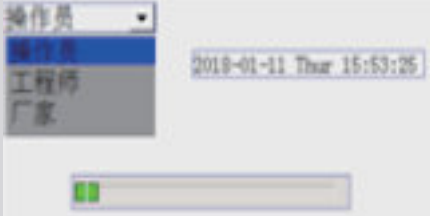
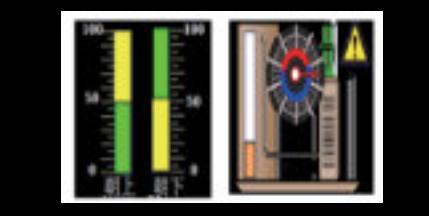

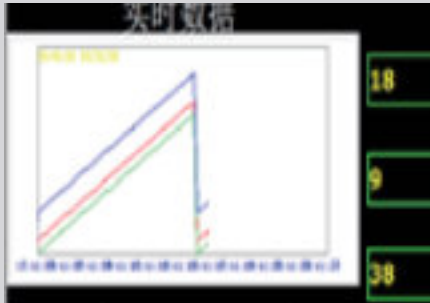

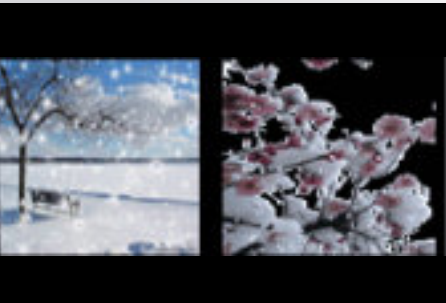
Report: supports report configuration, alarm/recipe printing, and report printing and PDF export

Alarm, recipe, user management, operation log

Side-by-side editing control of G-codes and graphical trajectory 	G-code monitoring control 	Trajectory monitoring control 	Trajectory monitoring control 
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InoTouchEditor

Suitable for IT6000 series HMIs

Status display and control 	Value/character display and control 	Table 
Window control 	Animated bar graph instrument 	Transmission and backup of recipes and data 
Curve group and trend graph 	Event warning 	Vector graphics and pictures 

Ordering Information

Smart controller

Series	编码	Model	Description	Cert
AC800series booksize high-performance intelligent controller	01440038	AC810-0122-U0R0	Intelligent controller-AC810-0122-U0R0-Corei5-4network ports-128G-with PCIeexpansion slot-256 axes	CE
	01440103	AC801-0221-U0R0	Intelligent controller-AC801-0221-U0R0-Celeron-3network ports-64G-no PCIeexpansion slot-48 axes	CE
	01440101	AC802-0222-U0R0	Intelligent controller-AC802-0222-U0R0-Celeron-4network ports-128G-with PCIeexpansion slot-128 axes	CE
	01440143	AC812-0322-U0R0	Intelligent controller-AC812-0322-U0R0-Corei7-4network ports-128G-with PCIeexpansion slot-256 axes	-
24VDC BUFFER 5AS	72030012	UPS	Used for Acxxxand APxxxpower-failure retention	CE
AP700series display and intelligent controller integration	01440122	AP702-0221-U0R0	Intelligent controller-AP702-0021-U0R0-15"resistivescreencontroller-AP700seriesdisplayand intelligent controller integration (no logo)	CE
	01440171	AP703-0221-U0R0	Intelligent controller-AP703-0021-U0R0-15"resistivescreencontroller-AP700seriesdisplay and intelligent controller integration	CE

Notes: The AP703display has the Inovance logo on the front, while AP702does not.

Medium-sized PLC

Series	Code	Model	Description	Cert
AM600 series general-purpose medium-sized PLC	01440014	AM600-CPU1608TP	Medium-sized PLC-AM600-CPU1608TP-AM600seriesmedium-sized PLCwith EtherCAT CPUmodule(PNPoutput),20axesrecommended	CE
	01440064	AM600-CPU1608TN	Medium-sized PLC-AM600-CPU1608TN-AM600seriesmedium-sized PLCwith EtherCAT CPUmodule(NPN output),20axesrecommended	CE
AM400 Series economical medium-sized PLC	01440028	AM401-CPU1608TP	Medium-sized PLC-AM401-CPU1608TP-AM400seriesmedium-sized PLCwith 4-axis EtherCAT CPUmodule	CE
	01440032	AM401-CPU1608TN	Medium-sized PLC-AM401-CPU1608TN-AM400seriesmedium-sized PLCwith 4-axisEtherCAT CPU module (NPN output)	CE
	01440029	AM402-CPU1608TP	Medium-sized PLC-AM402-CPU1608TP-AM400seriesmedium-sized PLCwith 8-axis EtherCAT CPUmodule	CE
	01440031	AM402-CPU1608TN	Medium-sized PLC-AM402-CPU1608TN-AM400seriesmedium-sized PLCwith 8-axisEtherCAT CPU module (NPN output)	CE
	01440126	AM403-CPU1608TN	Medium-sized PLC-AM403-CPU1608TN-AM400seriesmedium-sized PLCwith 16-axisEtherCAT CPU module (NPN output)	CE

Small PLC

Series	Code	Model	Description	Cert
H5U series high-performance EtherCAT bus small PLC	01440087	H5U-1614MTDR	Small PLC-H5U-1614MTD-H5Useries 16-in-14-out PLC	CE
	01440236	H5U-1614MTD-A8	Small PLC-H5U-1614MTD-H5Useries 16-in 14-out 8-axis	CE
	01440235	H5U-1614MTD-A16	Small PLC-H5U-1614MTD-H5Useries 16-in 14-out 16-axis	CE

Series	Code	Model	Description	Cert
H3U series high-performance CANbus small PLC	01440021	H3U-1616MT-XP	Small PLC-H3U-1616MT-XP-32-point-transistoroutput-H3Uuniversal main module	CE
	01440022	H3U-1616MR-XP	Small PLC-H3U-1616MR-XP-32-point-relayoutput-H3Uuniversal main module	CE
	01440048	H3U-2416MT-XP	Small PLC-H3U-2416MT-XP-40points-transistoroutput-H3U universal main module	-
	01440049	H3U-2416MR-XP	Small PLC-H3U-2416MR-XP-40points-relayoutput-H3U universal main module	-
	01440055	H3U-3624MT	Small PLC-H3U-3624MT-60points-transistoroutput-H3U universal main module	-
	01440054	H3U-3624MR	Small PLC-H3U-3624MR-60points-relayoutput-H3U universal main module	-
	01440015	H3U-3232MT	Small PLC-H3U-3232MT-64points-transistoroutput-H3U universal main module	CE
	01440020	H3U-3232MR	Small PLC-H3U-3232MR-64points-relayoutput-H3U universal main module	CE

Series	Code	Model	Description	Cert
H2U series general-purpose small PLC	01022079	H2U-1010MT-XP	Small PLC-H2U-1010MT-XP-20points-transistoroutput-H2U universal main module	CE
	01022078	H2U-1010MR-XP	Small PLC-H2U-1010MR-XP-20points-relayoutput-H2U universal main module	CE
	01022041	H2U-1616MT-XP	Small PLC-H2U-1616MT-XP-32points-transistoroutput-H2U universal main module	CE
	01022040	H2U-1616MR-XP	Small PLC-H2U-1616MR-XP-32points-relayoutput-H2U universal main module	CE
	01022049	H2U-2416MT-XP	Small PLC-H2U-2416MT-XP-40points-transistoroutput-H2U universal main module	CE
	01022048	H2U-2416MR-XP	Small PLC-H2U-2416MR-XP-40points-relayoutput-H2U universal main module	CE
	01022047	H2U-3624MT-XP	Small PLC-H2U-3624MT-XP-60points-transistoroutput-H2U universal main module	CE
	01022046	H2U-3624MR-XP	Small PLC-H2U-3624MR-XP-60points-relayoutput-H2U universal main module	CE
	01022045	H2U-3232MT-XP	Small PLC-H2U-3232MT-XP-64points-transistoroutput-H2U universal main module	CE
	01022050	H2U-3232MR-XP	Small PLC-H2U-3232MR-XP-64points-relayoutput-H2U universal main module	CE
	01022061	H2U-3232MTP	Small PLC-H2U-3232MTP-64points-transistoroutput-H2U series 8-HS-output type main module	-
	01022062	H2U-4040MT-XP	Small PLC-H2U-4040MT-XP-80points-transistoroutput-H2U universal main module	CE
	01022042	H2U-4040MR-XP	Small PLC-H2U-4040MR-XP-80points-relayoutput-H2U universal main module	CE
	01022044	H2U-6464MT-XP	Small PLC-H2U-6464MT-XP-128points-transistoroutput-H2U universal main module	CE
01022043	H2U-6464MR-XP	Small PLC-H2U-6464MR-XP-128points-relayoutput-H2U universal main module	CE	

Series	Code	Model	Description	Cert
H1U series simplified small PLC	01022054	H1U-0806MT-XP	Small PLC-H1U-0806MT-XP-14points-transistoroutput-H1U universal main module	CE
	01022053	H1U-0806MR-XP	Small PLC-H1U-0806MR-XP-14points-relayoutput-H1U universal main module	CE
	01022074	H1U-1208MT-XP	Small PLC-H1U-1208MT-XP-20points-transistoroutput-H1U universal main module	CE
	01022073	H1U-1208MR-XP	Small PLC-H1U-1208MR-XP-20points-relayoutput-H1U universal main module	CE
	01022056	H1U-1410MT-XP	Small PLC-H1U-1410MT-XP-24points-transistoroutput-H1U universal main module	CE
	01022055	H1U-1410MR-XP	Small PLC-H1U-1410MR-XP-24points-relayoutput-H1U universal main module	CE
	01022052	H1U-1614MT-XP	Small PLC-H1U-1614MT-XP-30points-transistoroutput-H1U universal main module	CE
	01022051	H1U-1614MR-XP	Small PLC-H1U-1614MR-XP-30points-relayoutput-H1U universal main module	CE
	01022059	H1U-2416MT-XP	Small PLC-H1U-2416MT-XP-40points-transistoroutput-H1U universal main module	CE
	01022057	H1U-2416MR-XP	Small PLC-H1U-2416MR-XP-40points-relayoutput-H1U universal main module	CE
	01022076	H1U-2820MT-XP	Small PLC-H1U-2820MT-XP-48points-transistoroutput-H1U universal main module	CE
	01022075	H1U-2820MR-XP	Small PLC-H1U-2820MR-XP-48points-relayoutput-H1U universal main module	CE
	01022060	H1U-3624MT-XP	Small PLC-H1U-3624MT-XP-60points-transistoroutput-H1U universal main module	CE
	01022058	H1U-3624MR-XP	Small PLC-H1U-3624MR-XP-60points-relayoutput-H1U universal main module	CE

Ordering Information

Small PLC

Series	Code	Model	Description	Cert
H0U series display and controller integrated multi-function small PLC	01022065	H0U-0808MR-XP	Small PLC-H0U-0808MR-XP-16RO-H0Uuniversal main module	CE
	01022063	H0U-0808MRT-XP	Small PLC-H0U-0808MRT-XP-16hybridoutput-H0U universal main module	CE
	01022067	H0U-0808MR-XP-6AT	Small PLC-H0U-0808MR-XP-6AT-16RO-2AI-2AO-2 TEMPMEASexpansion cards-H0U universalmain module	CE
	01022070	H0U-0808MRT-XP-6AT	Small PLC-H0U-0808MRT-XP-6AT-16mixed output-2AI-2AO-2 TEMPMEASexpansion card-H0Uuniversal main module	CE
	01022066	H0U-1616MR-XP	Small PLC-H0U-1616MR-XP-32RO-H0Uuniversal main module	CE
	01022064	H0U-1616MRT-XP	Small PLC-H0U-1616MRT-XP-32hybridoutput-H0U universal main module	CE
	01022071	H0U-1616MR-XP-6AT	Small PLC-H0U-1616MR-XP-6AT-32RO-2AI-2AO-2 TEMPMEASexpansion cards-H0U universalmain module	CE
	01022072	H0U-1616MRT-XP-6AT	Small PLC-H0U-1616MRT-XP-6AT-32mixed output-2AI-2AO-2 TEMPMEASexpansion card-H0Uuniversal main module	CE
	01029005	H0U-1616-XP-CAN	Small PLC-H0U-1616-XP-CAN-32RO-H0Uuniversalmain module (with CANlink3.0)	-

Series	Code	Model	Description	Cert
H3S series economical high-performance small PLC	01440100	H3S-1616MT-XP	Small PLC-H3S-1616MT-XP-32-point-transistoroutput-H3Suniversal main module	CE
	01440099	H3S-1616MR-XP	Small PLC-H3S-1616MR-XP-32-point-relayoutput-H3Suniversal main module	CE
	01440097	H3S-2416MT-XP	Small PLC-H3S-2416MT-XP-40points-transistoroutput-H3Suniversal main module	CE
	01440098	H3S-2416MR-XP	Small PLC-H3S-2416MR-XP-40points-relayoutput-H3Suniversal main module	CE
	01440096	H3S-3624MT	Small PLC-H3S-3624MT-60points-transistoroutput-H3Suniversal main module	CE
	01440095	H3S-3624MR	Small PLC-H3S-3624MR-60points-relayoutput-H3Suniversal main module	CE
	01440094	H3S-3232MT	Small PLC-H3S-3232MT-64points-transistoroutput-H3s universal main module	CE
	01440093	H3S-3232MR	Small PLC-H3S-3232MR-64points-relayoutput-H3Suniversal main module	CE

Series	Code	Model	Description	Cert
H2S series economical general-purpose small PLC	01440061	H2S-1010MT-XP	Small PLC-H2S-1010MT-XP-20points-transistoroutput-H2Suniversal main module	CE
	01440062	H2S-1010MR-XP	Small PLC-H2S-1010MR-XP-20points-relayoutput-H2Suniversal main module	CE
	01440056	H2S-1616MT-XP	Small PLC-H2S-1616MT-XP-32points-transistoroutput-H2Suniversal main module	CE
	01440057	H2S-1616MR-XP	Small PLC-H2S-1616MR-XP-32points-relayoutput-H2Suniversal main module	CE
	01440111	H2S-2416MT-XP	Small PLC-H2S-2416MT-XP-40points-transistoroutput-H2Suniversal main module	CE
	01440110	H2S-2416MR-XP	Small PLC-H2S-2416MR-XP-40points-relayoutput-H2Suniversal main module	CE
	01440112	H2S-3624MT-XP	Small PLC-H2S-3624MT-XP-60points-transistoroutput-H2Suniversal main module	CE
	01440113	H2S-3624MR-XP	Small PLC-H2S-3624MR-XP-60points-relayoutput-H2Suniversal main module	CE
	01440114	H2S-3232MT-XP	Small PLC-H2S-3232MT-XP-64points-transistoroutput-H2Suniversal main module	CE
	01440115	H2S-3232MR-XP	Small PLC-H2S-3232MR-XP-64points-relayoutput-H2Suniversal main module	CE
	01440116	H2S-4040MT-XP	Small PLC-H2S-4040MT-XP-80points-transistoroutput-H2Suniversal main module	CE
	01440117	H2S-4040MR-XP	Small PLC-H2S-4040MR-XP-80points-relayoutput-H2Suniversal main module	CE
01440118	H2S-6464MT-XP	Small PLC-H2S-6464MT-XP-128points-transistoroutput-H2Suniversal main module	CE	
01440119	H2S-6464MR-XP	Small PLC-H2S-6464MR-XP-128points-relayoutput-H2Suniversal main module	CE	

Series	Code	Model	Description	Cert
H1S series simplified economical small PLC	01440043	H1S-0806MT-XP	Small PLC-H1S-0806MT-XP-14points-transistoroutput-H1Suniversal main module	CE
	01440044	H1S-0806MR-XP	Small PLC-H1S-0806MR-XP-14points-relayoutput-H1Suniversal main module	CE
	01440091	H1S-1208MT-XP	Small PLC-H1S-1208MT-XP-20points-transistoroutput-H1Suniversal main module	CE
	01440045	H1S-1208MR-XP	Small PLC-H1S-1208MR-XP-20points-relayoutput-H1Suniversal main module	CE
	01440092	H1S-1410MT-XP	Small PLC-H1S-1410MT-XP-24points-transistoroutput-H1Suniversal main module	CE
	01440046	H1S-1410MR-XP	Small PLC-H1S-1410MR-XP-24points-relayoutput-H1Suniversal main module	CE
	01440090	H1S-1614MT-XP	Small PLC-H1S-1614MT-XP-30points-transistoroutput-H1Suniversal main module	CE
	01440040	H1S-1614MR-XP	Small PLC-H1S-1614MR-XP-30points-relayoutput-H1Suniversal main module	CE
	01440106	H1S-2416MT-XP	Small PLC-H1S-2416MT-XP-40points-transistoroutput-H1Suniversal main module	CE
	01440107	H1S-2416MR-XP	Small PLC-H1S-2416MR-XP-40points-relayoutput-H1Suniversal main module	CE
	01440105	H1S-2820MT-XP	Small PLC-H1S-2820MT-XP-48points-transistoroutput-H1Suniversal main module	CE
	01440104	H1S-2820MR-XP	Small PLC-H1S-2820MR-XP-48points-relayoutput-H1Suniversal main module	CE
	01440108	H1S-3624MT-XP	Small PLC-H1S-3624MT-XP-60points-transistoroutput-H1Suniversal main module	CE
	01440109	H1S-3624MR-XP	Small PLC-H1S-3624MR-XP-60points-relayoutput-H1Suniversal main module	CE

Ordering Information

expansion module

Series	Code	Model	Description	Cert
GRseries distributed high-speed module	01440077	GR10-0808ETNE	GR10-0808ETNE-GR10seriesPLC8-in-8-out EtherCAT slave module	CE
	01440079	GR10-1616ETNE	GR10-1616ETNE-GR10seriesPLC16-in-16-out EtherCAT slave module	CE
	01440058	GR10-4ADE	GR10-4ADE-GR10seriesmedium-sized PLC4AI EtherCAT slave module	CE
	01440060	GR10-4DAE	GR10-4DAE-GR10seriesmedium-sized PLC4AO EtherCAT slave module	CE
	01440059	GR10-8TCE	GR10-8TCE-GR10seriesmedium-sized PLCEtherCAT slave module (8 TCinputs)	CE
	01440068	GR10-4PME	GR10-4PME-GR10seriesPLCEtherCATslave module (4 positioning outputs)	CE
	01440072	GR10-2HCE	GR10-2HCE-GR10seriesPLC2-channel ABZhigh-speed counting EtherCAT slave module	CE
	01440127	GR10-8PBE	GR10-8PBE-GR10seriesuniversalmodule 8-channel probe capture 1 channel ABZhigh-speed counting EtherCAT slave module	CE
	01440120	GR10-2PHE	GR10-2PHE-GR10seriesPLC2-channelhigh-speed DIFFpulse output EtherCAT slave remote expansion module	CE
	01440135	GR10-EC-6SW	GR10-EC-6SW-GR10series6-EtherCAT-port branch module	CE
72030017	GR10-4TCS-PID	Control technology accessory-AI-70482D7-4TCinput TEMPcontroller	-	
GL Series centralized universal module	01440074	GL10-PS2	GL10-PS2-GL10seriesPLCpower supply module (used to power AMseries PLCsor ECTAcouplers)	CE
	01440073	GL10-RTU-ECTA	GL10-RTU-ECTA-seriesPLCEtherCAT (auto scan) COMMmodule	CE
	01440083	GL10-RTU-COP	GL10-RTU-COP-GL10seriesPLCCANopen COMMremote expansion module	CE
	01440066	GL10-1600END	GL10-1600END-GL10series PLC16DI module	CE
	01440076	GL10-3200END	GL10-3200END-GL10series PLC32DI module	CE
	01440180	GL10-3200END-F01	GL10-3200END-F01-GL10seriesPLC32DI 0.1ms filter module	-
	01440067	GL10-0016ETN	GL10-0016ETN-GL10seriesPLC16digital transistor NPNoutput module	CE
	01440069	GL10-0016ETP	GL10-0016ETP-GL10seriesPLC16digital transistor PNPoutput module	CE
	01440081	GL10-0016ER	GL10-0016ER-GL10seriesPLC16 digital ROModule	CE
	01440082	GL10-0032ETN	GL10-0032ETN-GL10series PLC32DO module	CE
	01440080	GL10-4AD	GL10-4AD-GL10series PLC4AI module	CE
	01440071	GL10-4DA	GL10-4DA-GL10series PLC4AO module	CE
	01440075	GL10-4PT	GL10-4PT-GL10series PLC4-in RTDmodule	CE
	01440078	GL10-4TC	GL10-4TC-GL10series PLC4-in TC TEMPMEASmodule	CE
	01440070	GL10-8TC	GL10-8TC-GL10series PLC8-in TC TEMPMEASmodule	CE
01440129	GL10-4PM	GL10-4PM-GL10seriesPLC4-axispositioning output local module (H3U only)	CE	
01440121	GL10-2PH	GL10-2PH-GL10seriesPLC2-channel high-speed DIFFpulse output expansion module (H3U only)	CE	
GRdistributed dedicated hybrid expansion module	01440086	GR10-32ETP8AME	GR10-32ETP8AME-GR1+RC:R[10]C[2]0series32sourceoutput 8mixed analog input module (with EtherCAT board)	-
	01440084	GR10-28ETP12AME	GR10-28ETP12AME-GR10series28sourceoutput 12mixed analog input module (with EtherCAT board)	-
	01440085	GR10-4EN4ADE	GR10-4EN4ADE-GR10series4sourceinput 4AI module (with EtherCAT board)	-

Series	Code	Model	Description	Cert
AM600module	01440023	AM600-3200END	AM600series 32-in module (used with X210-5-0.5/2, T024-K)	-
	01440025	AM600-0032ETN	AM600series 32-out module (used with X210-5-0.5/2, T024-K)	-
AM600module accessories	15300119	X210-5-0.5	40-pin outgoing cable-0.5 m (used by AM600-0032ETNand AM600-3200ENDmodules)	-
	15300193	X210-5-2	40-pin outgoing cable-2.0 m (used by AM600-0032ETNand AM600-3200ENDmodules)	-
	15020452	T024-K	AM60032-point module terminal block (used by AM600-0032ETNandAM600-3200ENDmodules)	-

Series	Code	Model	Description	Cert
CANlinkremote expansion module	01024002	H2U-0016ETDR	Expansion module-H2U-0016ETDR-16transistoroutput remote expansion module	-
	01024004	H2U-0016ERDR	Expansion module-H2U-0016ERDR-16ROremoteexpansion module	-
	01024014	H2U-1600ENDR	Expansion module-H2U-1600ENDR-16DIremote expansion module	-
	01024008	H2U-4ADR	Expansion module-H2U-4ADR-4AIremote expansion module	-
	01024009	H2U-4DAR	Expansion module-H2U-4DAR-4AOremote expansion module	-
	01024024	H2U-2ADR	Expansion module-H2U-2ADR-2AIremote expansion module	-
	01024025	H2U-4AMR	Expansion module-H2U-4AMR-2-in2-out analog remote expansion module	-
	01024027	H2U-6AMR	Expansion module-H2U-6AMR-4current input 2-out analog remote expansion module	-
	01024029	H2U-6CMR	Expansion module-H2U-6CMR-4voltage input 2-out remote expansion module	-
	01024032	H2U-4PTR-XP	Expansion module-H2U-4PTR-XP-4PTRremote expansion module	-
	01024034	H2U-4TCR-XP	Expansion module-H2U-4TCR-XP-4TCremoteexpansion module	-
	01024035	H2U-0808ERDR	Expansion module-H2U-0808ERDR-8DI8ROhybrid remote expansion module	-

Series	Code	Model	Description	Cert
H2U series local expansion module	01024003	H2U-0016ETN	Expansion module-H2U-0016ETN-16transistor output local expansion module	CE
	01024005	H2U-0016ERN	Expansion module-H2U-0016ERN-16ROlocal expansion module	CE
	01024006	H2U-4AD	Expansion module-H2U-4AD-4AIlocal expansion module	CE
	01024007	H2U-4DA	Expansion module-H2U-4DA-4AOlocal expansion module	CE
	01024015	H2U-1600ENN	Expansion module-H2U-1600ENN-16DIlocal expansion module	CE
	01024020	H2U-6AM	Expansion module-H2U-6AM-4current input 2-out analog local expansion module	CE
	01024021	H2U-2AD	Expansion module-H2U-2AD-2AIlocal expansion module	CE
	01024022	H2U-2DA	Expansion module-H2U-2DA-2AOlocal expansion module	CE
	01024023	H2U-4AM	Expansion module-H2U-4AM-2-in2-out analog local expansion module	CE
	01024030	H2U-6CM	Expansion module-H2U-6CM-4voltage input 2-out local expansion module	CE
	01024031	H2U-4PT-XP	Expansion module-H2U-4PT-XP-4PTlocal expansion module	CE
	01024033	H2U-4TC-XP	Expansion module-H2U-4TC-XP-4TClocal expansion module	-
	01024036	H2U-0808ERN	Expansion module-H2U-0808ERN-8DI8ROhybrid local expansion module	CE
	01024037	H2U-0808ETN	Expansion module-H2U-0808ETN-8DI8transistor output hybrid local expansion module	CE
	01024040	H2U-0008ERN	Expansion module-H2U-0008ERN-8ROlocal expansion module	CE
	01024042	H2U-0008ETN	Expansion module-H2U-0008ETN-8transistor output local expansion module	CE
	01024044	H2U-0800ENN	Expansion module-H2U-0800ENN-8DIlocal expansion module	CE
	01024046	H2U-0404ERN	Expansion module-H2U-0404ERN-4DI4ROhybrid local expansion module	CE
	01024048	H2U-0404ETN	Expansion module-H2U-0404ETN-4DI4transistor output hybrid local expansion module	CE
	01440004	H2U-4HC	Expansion module-H2U-4HC-4-channel high-speed AB phase counting-H2U series local module	-
	01029007	H2U-4PT-XP-QX	Expansion module-H2U-4PT-XP-QX-4PTlocal expansion module (PT changed to NTC)	-

Ordering Information

HMI

Series	Code	Model	Description	Cert
IT7000 series high-performance general-purpose HMI	01450038	IT7070S	HMI-IT7070S-IT7000series7" economical touch screen	-
	01450030	IT7070T	HMI-IT7070T-IT7000series7" standard touch screen	-
	01450039	IT7070E	HMI-IT7070E-IT7000series7"high-performance touch screen	-
	01450037	IT7100S	HMI-IT7100S-IT7000series10" economical touch screen	-
	01450036	IT7100E	HMI-IT7100E-IT7000series10" standard touch screen	-
	01450028	IT7150E	HMI-IT7150E-IT7000series15" touch screen	CE
	72030015	SJK1149-E-61010	IT7000configuration software dongle	-

Series	Code	Model	Description	Cert
IT6000 series general-purpose HMI	01450012	IT6043T	HMI-IT6043T-IT6000series4.3" standard touch screen	-
	01450001	IT6070T	HMI-IT6070T-IT6000series7" standard touch screen	CE
	01450002	IT6070E	HMI-IT6070E-IT6000series7"high-performance touch screen	CE
	01450005	IT6070EG-IOT	HMI-IT6070EG-IOT-IT6000series7" IoT touch screen	-
	01450007	IT6100E	HMI-IT6100E-IT6000series10" touch screen	CE
	01450019	IT6070TS	HMI-IT6070TS-IT6000series7" simplified touch screen	-

Note: The IT6000series is expected to be replaced by the IT7000series within 2 years. It is recommended to choose IT7000series products.

Controller options

Series	Code	Model	Description	Cert
Options of AC700 series controller	01480014	AP700-KEYB	Controller option-AP700-KEYB-AP700series injection molding machine dedicated keypad	-
Options of H1U series	01023011	H1U-CAN-BD	Controller option-H1U-CAN-BD-PLC expansion card-CAN isolation communication card	-
	01023017	H1U-232-BD	Controller option-H1U-232-BD-PLC expansion card-RS232 communication card	-
	01023019	H1U-4A-BD	Controller option-H1U-4A-BD-2 AI-2 AO expansion card	-
	01480001	H1U-4AMC-BD	Controller option-H1U-4AMC-BD-CAN-enabled 2-AI 2-AO board card	-
	01480002	H1U-COVER1	Controller option-H1U-COVER1-H1U series PLC cover	-
	01480015	H1U-2TP2DA-BD	Controller option-H1U series expansion card-2 TC/TP hybrid temperature input-2 DA analog voltage 0-10V output	-
Options of H2U series controller	01013104	MD38PC1	Controller option-MD38PC1-MD380 series multi-function expansion card	-
	01023002	H2U-422-BD	Controller option-H2U-422-BD-PLC expansion card-RS422 communication card	-
	01023003	H2U-232-BD	Controller option-H2U-232-BD-PLC expansion card-RS232 communication card	-
	01023006	H2U-6B-BD	Controller option-H2U-6B-BD-PLC expansion card-4 current (0-20mA) inputs-2 AOs	-
	01023007	H2U-6A-BD	Controller option-H2U-6A-BD-2 voltage inputs-2 current inputs-2 AO expansion card	-
	01023008	H2U-CAN-BD	Controller option-H2U-CAN-BD-PLC expansion card-CAN isolation communication card	-
	01023009	H2U-485IF-BD	Controller option-H2U-485IF-BD-PLC expansion card-RS485 isolation communication card	-
	01023020	H2U-2DC	Controller option-H2U-2DC-2DIFF-to-collector output conversion card	-
	01023022	H2U-ENET-BD	Controller option-H2U-ENET-BD-PLC ethernet expansion card-PLC ethernet communication card	-
	01023013	H2U-EXP-CAB	Controller option-H2U-EXP-CAB-expansion module extension cable	-
01023010	H2U-BAT	Controller option-H2U-BAT-PLC battery	-	

IT7000 and IT6000 and cable accessories

Series	Code	Model	Description
IT7000 cable accessories	1504AX53	IT7-H3U-CAB	DB9 female (RS422)-MD8 male (RS422) DB9 female: RS422 interface of IT7000 MD8 male: RS422 communication port of Inovance H1U/H2U/H3U RS422 communication port of Mitsubishi FX1N/2N/3U/3G
	15042148	H2U-232-CAB	DB9 female (RS232)-MD8 male (RS422) DB9 female: RS232 interface of IT7 *** T/E MD8 male: RS422 communication port of Inovance H1U/H2U/H3U RS422 communication port of Mitsubishi FX1N/2N/3U/3G
	15041200	H2U-USB-CAB	mini USB communication cable Used to download and commissioning user programs of Inovance PLC and IT7000 through a PC

Series	Code	Model	Description
IT6000 cable accessories	15041140	IT5-H2U-CAB	DB9 male (RS422)-MD8 male (RS422) DB9 male: RS422 interface of IT6000 MD8 male: RS422 communication port of Inovance H1U/H2U/H3U RS422 communication port of Mitsubishi FX1N/2N/3U/3G
	15042148	H2U-232-CAB	DB9 female (RS232)-MD8 male (RS422) DB9 female: RS232 interface of IT6 *** E MD8 male: RS422 communication port of Inovance H1U/H2U/H3U RS422 communication port of Mitsubishi FX1N/2N/3U/3G
	15041123	IT5-USB-CAB	Type B USB communication cable Used to download and debug the IT6000 user program through PC

Dimensions

Smart controller

Series	Model	Rearhook	Side earhook
AC800series booksize high-performance intelligent controller	AC810-0122-U0R0		
	AC801-0221-U0R0		
	AC802-0222-U0R0		
	AC812-0322-U0R0		

Series	Model	Dimensions
AP700series display and intelligent controller integration	AP702-0221-U0R0	
	AP703-0221-U0R0	

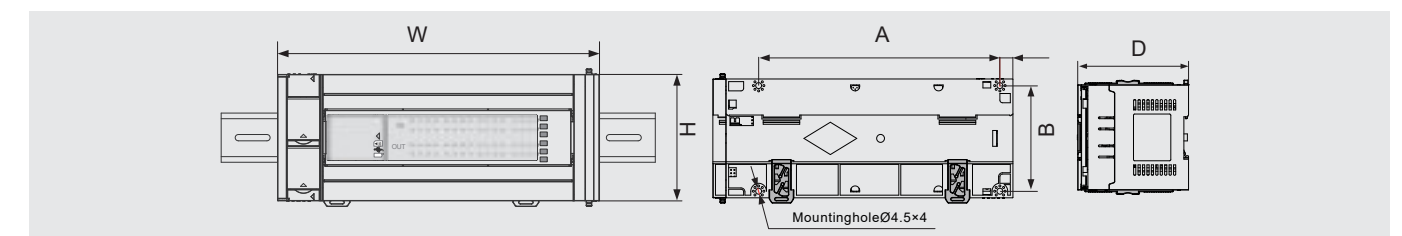
Series	Model	Dimensions
24VDC BUFFER 5AS	UPS	

Medium-sized PLC

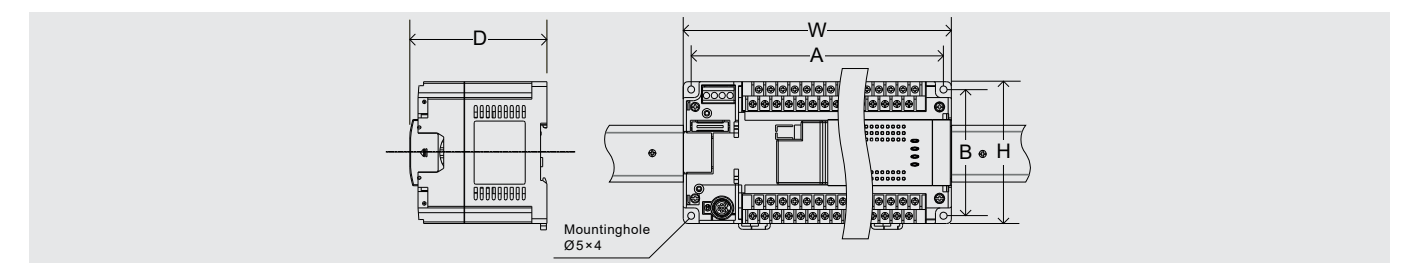
Series	Model	Dimensions
AM600series general-purpose medium-sized PLC	AM600-CPU1608TP	
	AM600-CPU1608TN	
AM400 Series economical medium-sized PLC	AM401-CPU1608TP	
	AM401-CPU1608TN	
	AM402-CPU1608TP	
	AM402-CPU1608TN	
	AM403-CPU1608TN	

Small PLC

Series	Model	Dimensions
H5U series high-performance EtherCATbus small PLC	H5U-1614MTDR	



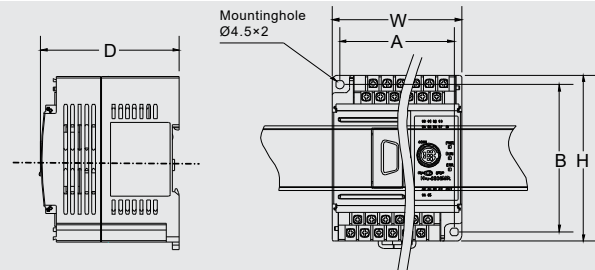
Series	Model	W (mm)	H (mm)	D (mm)	A (mm)	B (mm)
H3U series high-performance CANbus small PLC	H3U-1616MT-XP	180	90	90	135	80
	H3U-1616MR-XP					
	H3U-2416MT-XP					
	H3U-2416MR-XP	230	90	95	185	80
	H3U-3624MT					
	H3U-3624MR					
H3U-3232MT						
H3U-3232MR						



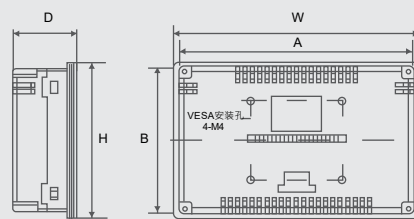
Series	Model	W (mm)	H (mm)	D (mm)	A (mm)	B (mm)
H2U series general-purpose small PLC	H2U-1010MT-XP	130	90	88	120	80
	H2U-1010MR-XP					
	H2U-1616MT-XP	170			160	
	H2U-1616MR-XP					
	H2U-2416MT-XP	170			160	
	H2U-2416MR-XP					
	H2U-3624MT-XP	220			210	
	H2U-3624MR-XP					
	H2U-3232MT-XP	220			210	
	H2U-3232MR-XP					
	H2U-3232MTP					
	H2U-4040MT-XP	285			275	
H2U-4040MR-XP						
H2U-6464MT-XP	350	340				
H2U-6464MR-XP						

Dimensions

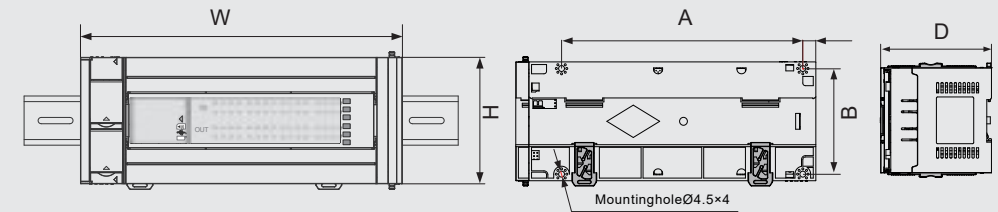
Small PLC



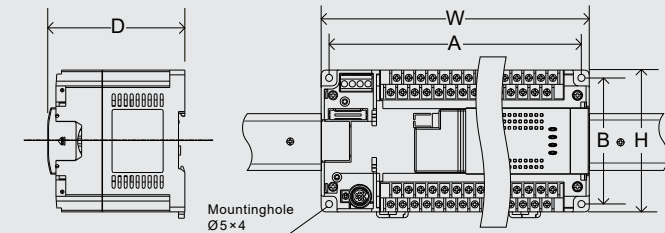
Series	Model	W (mm)	H (mm)	D (mm)	A (mm)	B (mm)
H1U series simplified small PLC	H1U-0806MT-XP	70	90	75	62	80
	H1U-0806MR-XP					
	H1U-1208MT-XP	93			83	
	H1U-1208MR-XP					
	H1U-1410MT-XP	93			83	
	H1U-1410MR-XP					
	H1U-1614MT-XP	110			100	
	H1U-1614MR-XP					
	H1U-2416MT-XP	133			123	
	H1U-2416MR-XP					
	H1U-2820MT-XP	148			138	
	H1U-2820MR-XP					
	H1U-3624MT-XP	179			169	
	H1U-3624MR-XP					



Series	Model	W (mm)	H (mm)	D (mm)	A (mm)	B (mm)
H0U series display and controller integrated multi-function small PLC	H0U-0808MR-XP	200	146	42	191	137
	H0U-0808MRT-XP					
	H0U-0808MR-XP-6AT					
	H0U-0808MRT-XP-6AT					
	H0U-1616MR-XP					
	H0U-1616MRT-XP					
	H0U-1616MR-XP-6AT					
	H0U-1616MRT-XP-6AT					
	H0U-1616-XP-CAN					



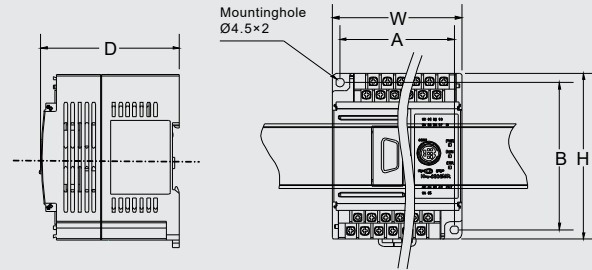
Series	Model	W (mm)	H (mm)	D (mm)	A (mm)	B (mm)
H3S series economical high-performance small PLC	H3S-1616MT-XP	180	90	90	135	80
	H3S-1616MR-XP					
	H3S-2416MT-XP					
	H3S-2416MR-XP					
	H3S-3624MT	230		95	185	
	H3S-3624MR					
	H3S-3232MT					
	H3S-3232MR					



Series	Model	W (mm)	H (mm)	D (mm)	A (mm)	B (mm)
H2S series economical general-purpose small PLC	H2S-1010MT-XP	130	90	88	120	80
	H2S-1010MR-XP					
	H2S-1616MT-XP	170			160	
	H2S-1616MR-XP					
	H2S-2416MT-XP	170			160	
	H2S-2416MR-XP					
	H2S-3624MT-XP	220			210	
	H2S-3624MR-XP					
	H2S-3232MT-XP	220			210	
	H2S-3232MR-XP					
	H2S-4040MT-XP	285			275	
	H2S-4040MR-XP					
H2S-6464MT-XP	350	340				
H2S-6464MR-XP						

Dimensions

Small PLC



Series	Model	W (mm)	H (mm)	D (mm)	A (mm)	B (mm)
H1S series simplified economical small PLC	H1S-0806MT-XP	70	90	75	62	80
	H1S-0806MR-XP					
	H1S-1208MT-XP	93				
	H1S-1208MR-XP					
	H1S-1410MT-XP	93				
	H1S-1410MR-XP					
	H1S-1614MT-XP	110				
	H1S-1614MR-XP					
	H1S-2416MT-XP	133				
	H1S-2416MR-XP					
	H1S-2820MT-XP	148				
	H1S-2820MR-XP					
	H1S-3624MT-XP	179				
H1S-3624MR-XP						

Expansion module

Series	Model	Dimensions	
GRseries distributed high-speed module	GR10-0808ETNE		
	GR10-1616ETNE		
	GR10-4ADE		
	GR10-4DAE		
	GR10-8TCE		
	GR10-4PME		
	GR10-2HCE		
	GR10-8PBE		
	GR10-2PHE		
	GR10-EC-6SW		

Series	Model	Dimensions	W (mm)
GL Series centralized universal module	GL10-PS2		
	GL10-RTU-ECTA		
	GL10-RTU-COP		
	GL10-1600END		117.0
	GL10-3200END		113.3
	GL10-3200END-F01		113.3
	GL10-0016ETN		117.0
	GL10-0016ETP		117.0
	GL10-0016ER		117.0
	GL10-0032ETN		113.3
	GL10-4AD		117.0
	GL10-4DA		117.0
	GL10-4PT		117.0
	GL10-4TC		117.0
	GL10-8TC		117.0
	GL10-4PM		113.3
GL10-2PH	113.3		

Dimensions

expansion module

Series	Model	Dimensions
GRdistributed dedicated hybrid expansion module	GR10-32ETP8AME	
	GR10-28ETP12AME	
	GR10-4EN4ADE	

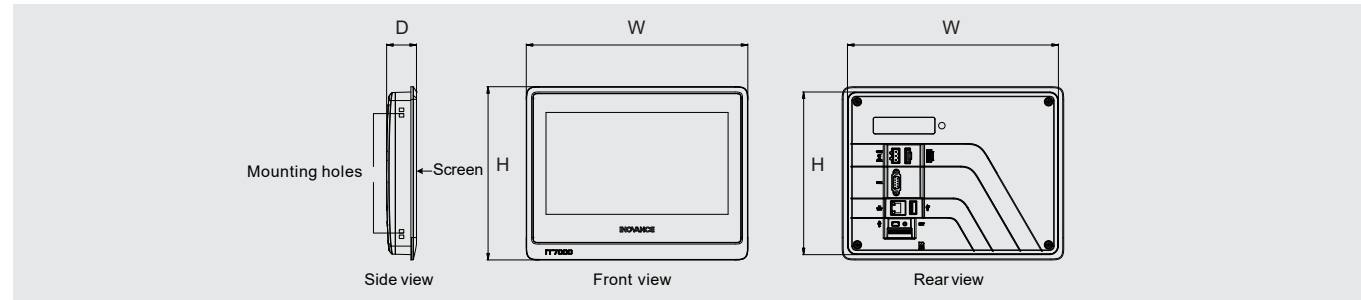
Series	Model	Dimensions
AM600module	AM600-3200END	
	AM600-0032ETN	

Series	Model	W (mm)	H (mm)	D (mm)	B (mm)	
CANlinkremote expansion module	H2U-0016ETDR		58	90	87	80
	H2U-0016ERDR					
	H2U-1600ENDR					
	H2U-4ADR					
	H2U-4DAR					
	H2U-2ADR					
	H2U-4AMR					
	H2U-6AMR					
	H2U-6CMR					
	H2U-4PTR-XP					
H2U-4TCR-XP						
H2U-0808ERDR						

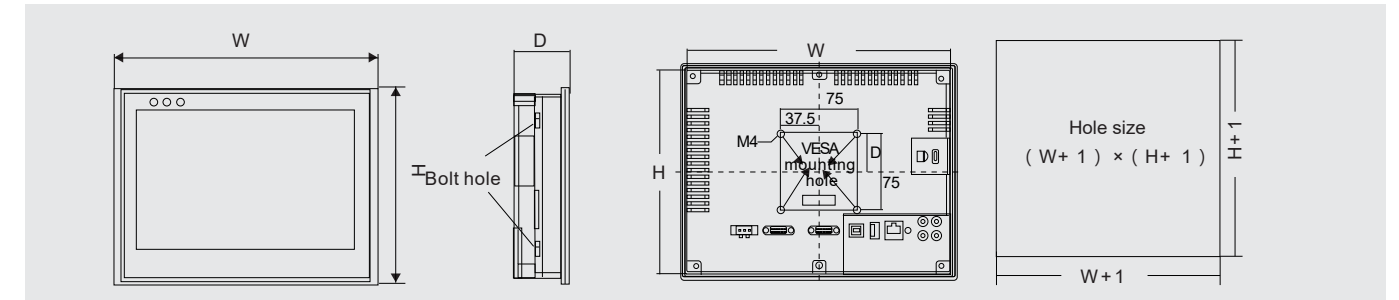
Series	Model	Dimensions	
H2U series local expansion module	H2U-0016ETN		
	H2U-0016ERN		
	H2U-4AD		
	H2U-4DA		
	H2U-1600ENN		
	H2U-6AM		
	H2U-2AD		
	H2U-2DA		
	H2U-4AM		
	H2U-6CM		
	H2U-4PT-XP		
	H2U-4TC-XP		
	H2U-0808ERN		
	H2U-0808ETN		
	H2U-0008ERN		
	H2U-0008ETN		
H2U-0800ENN			
H2U-0404ERN			
H2U-0404ETN			
H2U-4HC	H2U-4PT-XP-QX		

Dimensions

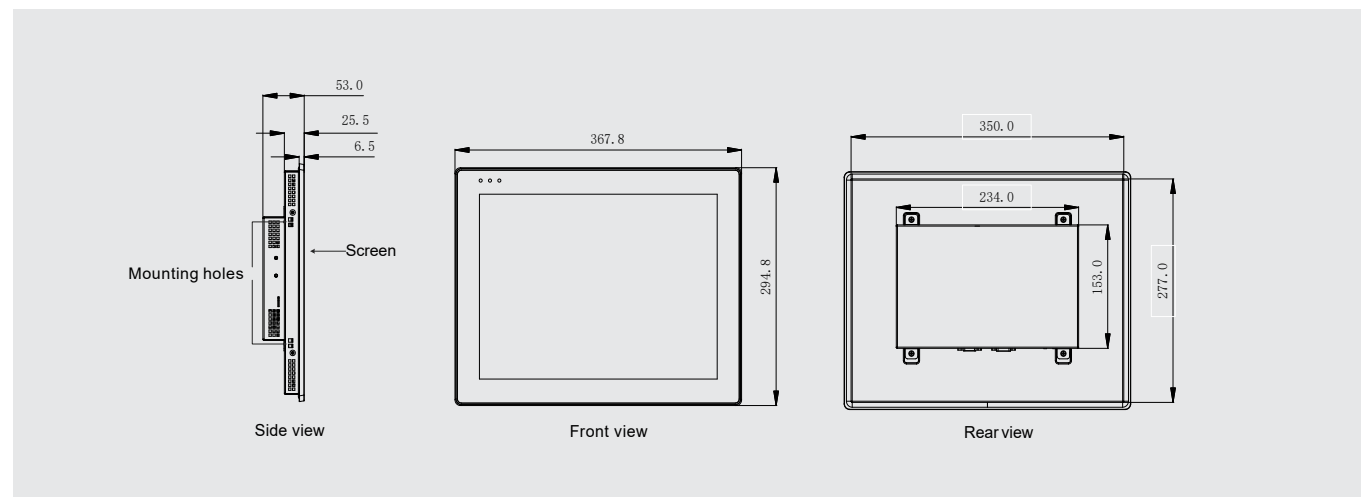
HMI



Series	Model	Specifications		Recommended Hole Size	
		Dimensions W × H × D (mm)	Dimensions for Through Hole Mounting W × H (mm)	W+2 (mm)	H+2 (mm)
IT7000 series high-performance general-purpose HMI	IT7070S	200×146×35	191×137	193	139
	IT7070T				
	IT7070E				
	IT7100S	271×213×36	258×200	260	202
	IT7100E				



Series	Model	Specifications			Recommended Hole Size	
		Dimensions W × H × D (mm)	Dimensions for Through Hole Mounting W × H (mm)	VESA Installation Dimensions D × D (mm)	W+1 (mm)	H+1 (mm)
IT6000 series general-purpose HMI	IT6043T	128×102×35	118×92	/	119	93
	IT6070T	200×146×42	191×137	/	192	138
	IT6070E	200×146×42	191×137	/	192	138
	IT6070EG-IOT	200×146×42	191×137	/	192	138
	IT6100E	271×213×40	258×200	75×75	259	201
	IT6070TS	200×146×42	191×137	/	192	138



Series	Model	Specifications		Recommended Hole Size	
		Dimensions W × H × D (mm)	Dimensions for Through Hole Mounting W × H (mm)	W+2 (mm)	H+2 (mm)
IT7000 series high-performance general-purpose HMI	IT7150E	367.8×294.8×53	350×277	352	279

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