

Kinco PLC Products Profile



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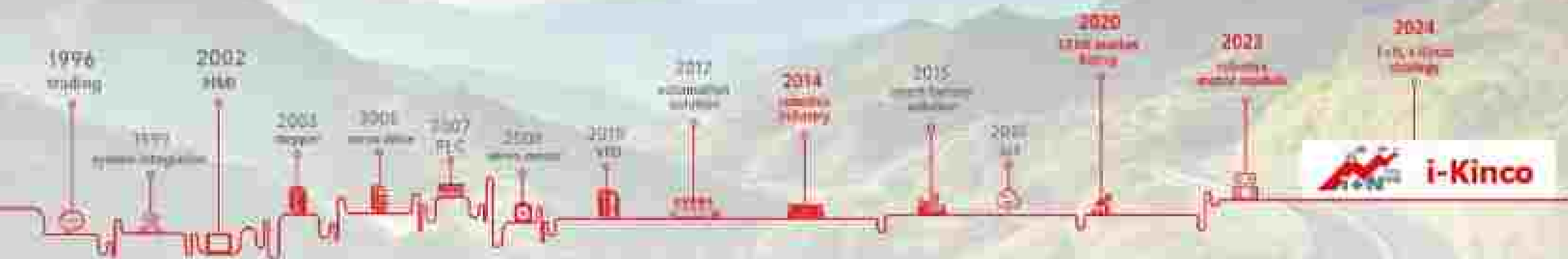
Next innovations and
developments in PLC products

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Helping to go to sea and partners

Kinco Company Profile

Kinco is a leading Chinese supplier of **motion control** and **human-machine interaction(HMI)** devices for **robots** and **intelligent equipment**



Vision:

Enabling Robots to Build a Better Life for Humankind



Values:

**Customer First / Openness and Enterprise,
Perseverance and Hard Work / Integrity and Trustworthiness**

Kinco Product and Solutions Portfolio

Machine IoT Cloud Platform



Core Automation Components



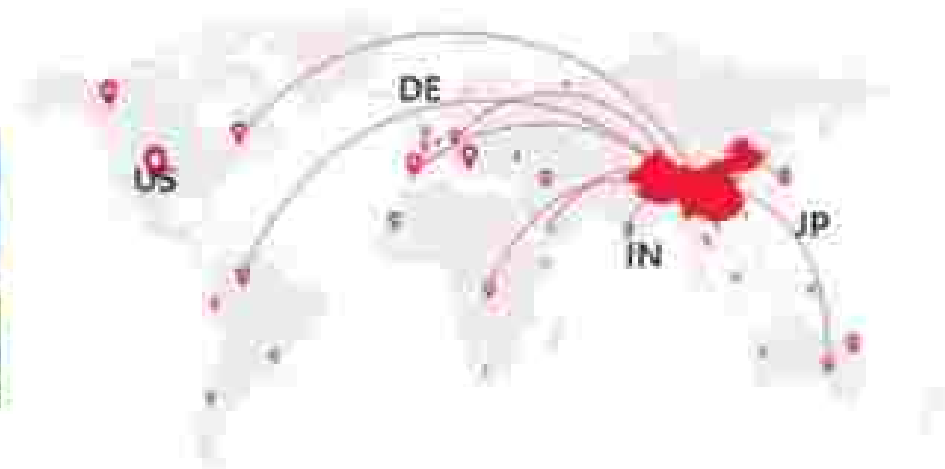
i-Kinco Robot Motor Modules

Four Major Bases, Global Service



10+ Global Marketing Centers
100+ Domestic Service Providers
70+ Global Partners

24/7 Online Service
Service Hotline: 400-700-5281



Win-Win Cooperation



Robot Partner

HAIRBOTICS
海式机器人

Geek+

HANGCHA

Linde

NOBLELIFT (诺力)

SIASUN 新松

HELIAN

KUKA

ABB

FANUC



UNIVERSAL ROBOTS



International OEM

FESTO

OMRON

Honeywell

B&R

LS

KEBA

EMERSON

SIEMENS
Simplicity for life



Manufacturing Industry

SAIC 上汽集团
SAIC MOTOR



上海地铁
SHANGHAI METRO

中国中车
CRRC

CSR
中国南车

CETC
中国电科



Medical Industry

UNITED IMAGING
联影医疗

SIEMENS
Healthineers



Advanced Manufacturing

BYD

CATL
宁德时代

ATW

SIP 捷佳创
SIP GROUP

YK 利元亨
YK GROUP

HACHT
海昌智能

LEAD 先导



Logistic Industry

BlueSword
兰剑智能

DAIFUKU
大福机器人

ENFON
恩方智能

今天国际

KENGIE 科捷智能

Gen-song

inform 音飞



Big End Customer

通威股份
TONGWEI

LONGI 隆基

一汽-大众
FAW-TOYOTA

小鹏



红旗

SHEIN

Kinco Typical Application Cases

Domestic TOP automotive wiring harness production equipment full set of motion control program



Customer pain points: high equipment performance requirements, high price of imported brands, slow service

- ✓ Providing total solutions, from stand-alone terminal equipment to high-end stranding processing centers
- ✓ 32-axis EtherCAT+CAN motion controller with 1ms synchronization period
- ✓ Stable and reliable, 7*24h continuous production
- ✓ Localized supply chain to meet customers' rapid service needs

Why choose Kinco

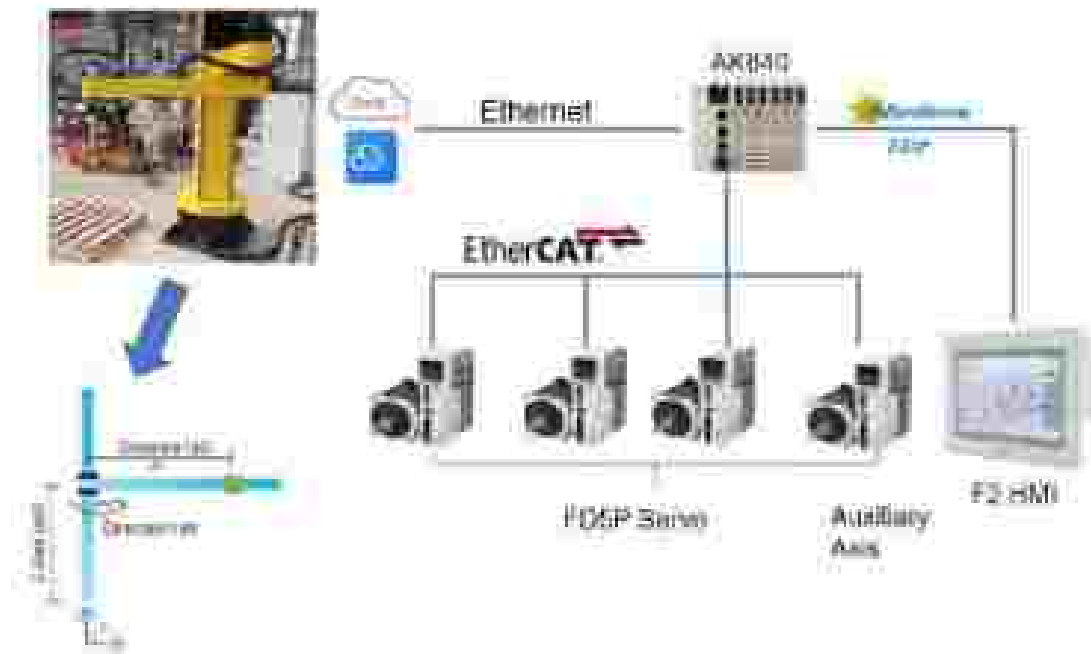
- Standard EtherCAT+CAN dual protocol design, Seamless alternative to European brands
- 10+ years of experience in wiring harness industry, experienced in product development
- Continuous supply for 10+ years with upgraded programs and products, Repair rate <0.3%



AK840 Application on palletizing robots

Application Introduction: The AK840 controller is paired with the F2 series HMI to realize a three-axis palletizer solution. It provides easy parameterization and basic monitoring and alarm functions.

The AK840M's dual Ethernet interface is designed to accommodate both on-site job control (HMI) and remote cloud data needs.



Reasons to choose Kinco:

- 1、 Compact design with high response speed
- 2、 Codesys uses standard 3-axis robot models for ease of development
- 3、 Abundant communication ports, dual network ports to connect to the upper part of the demand

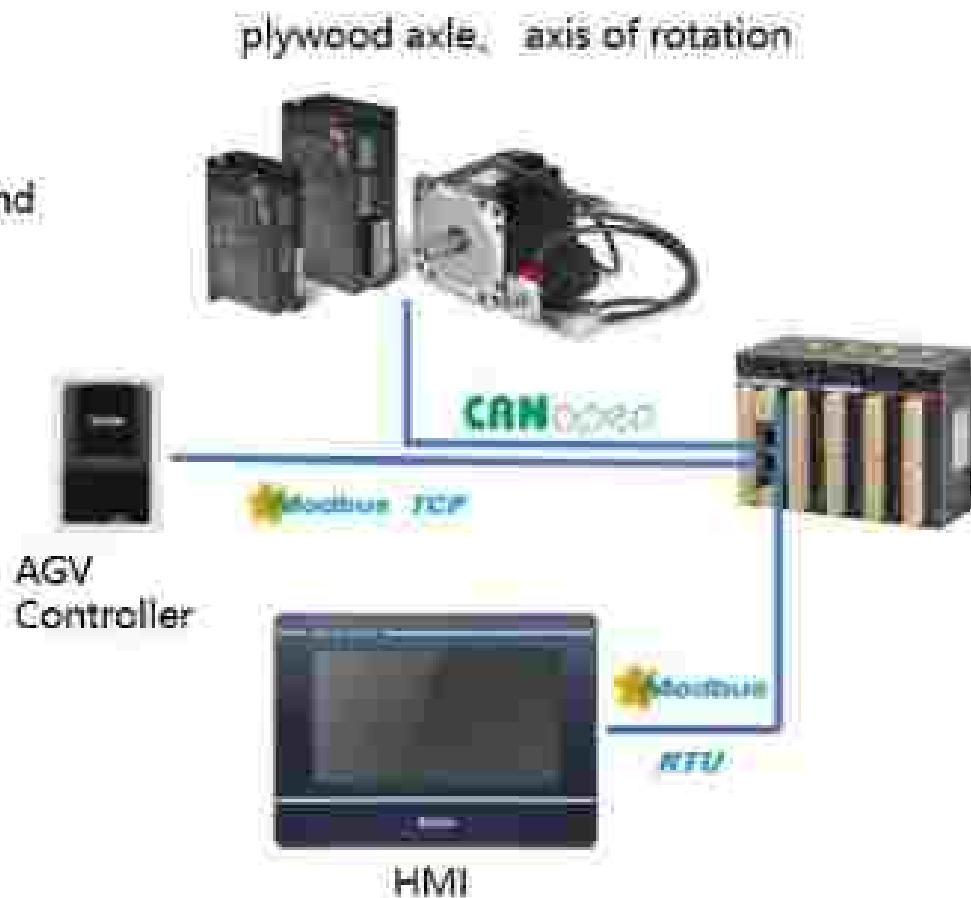
K6S Applications for mobile robots

Customer Cases: K615S for mobile robots

Application Introduction: The K615S and AGV controller communicate scheduling via Modbus TCP to control the rollers:

Reasons to choose Kinco:

1. Using CAN communication, Compatible with AGV control systems
2. Compact size
3. high quality-price ratio



MK (PLC+HMI) for Woodworking Machinery

Customer Cases: SCM uses MK070E-34DTC and other products for edgebanding machines

SCM Group is the world's leading manufacturer of woodworking machinery and technology solutions.

Application Introduction: The process of edge banding machine is conveying → gluing → cutting → front and back flush → top and bottom trimming and polishing, etc.. Customers use MK integrated machine to detect the temperature of adhesive glue through thermocouples, and then control the heating device through PID algorithm using PWM output to ensure the stability of adhesion. The servo is controlled by RS485 to run at the set speed, and the sealing is completed by manual pressing.

Reasons to choose Kinco:

1. The integrated structure of HMI and PLC reduces wiring complexity.
2. Highly integrated de-energized cabinet
3. Stable performance and reliable quality



Kinco

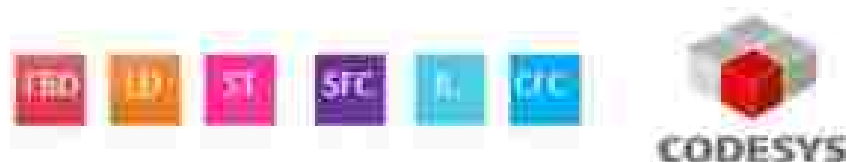
Product Series Profile

PLC Product Series and Application Scenarios



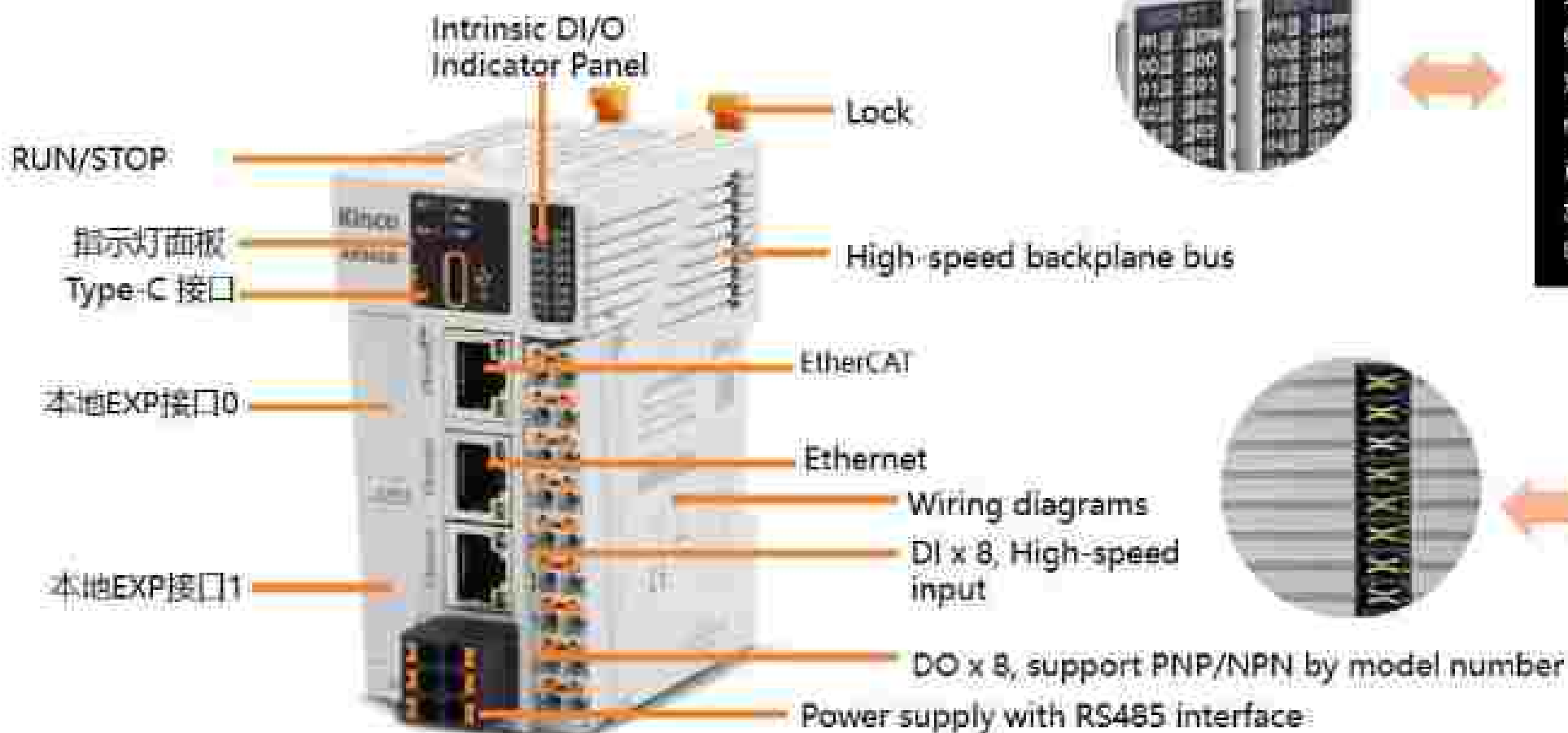
AK840 Medium-Sized Motion Controller

AK840 Introduction



- CPU: quad-core 64-bit Arm cortex-A53, 1.4GHZ
- Equipped with CoDeSys V3.5 software, supporting six IEC programming languages.
- Ultra-thin modular design, modules only 12mm, extreme space-saving installation
- Dual Ethernet as standard for stress-free cloud + field interaction/cascading
- Standard 1-channel EtherCAT, 1ms-8-axis/4ms-32-axis synchronized motion control
- Supports complex motion control such as multi-axis interpolation and electronic cams.
- 1 RS485, 1 USB port
- Dual expansion channels (80 + Backplane): support CAN/Serial communication and I/O free expansion (max. 2+16 expansion)
- 8-channel DI, 8-channel DO, support 2-channel high-speed counting (up to 200kHz)
- Large storage: 32M program storage, 32M data storage

AK840 Components



颜色标注	
蓝色	开关量输入
红色	开关量输出
紫色	开关量混合
绿色	模拟量输入, AI/DO/VE
黄色	模拟量输出
灰色	模拟量混合, AI/AO
白色	电源总线

Module Type Colour Labels

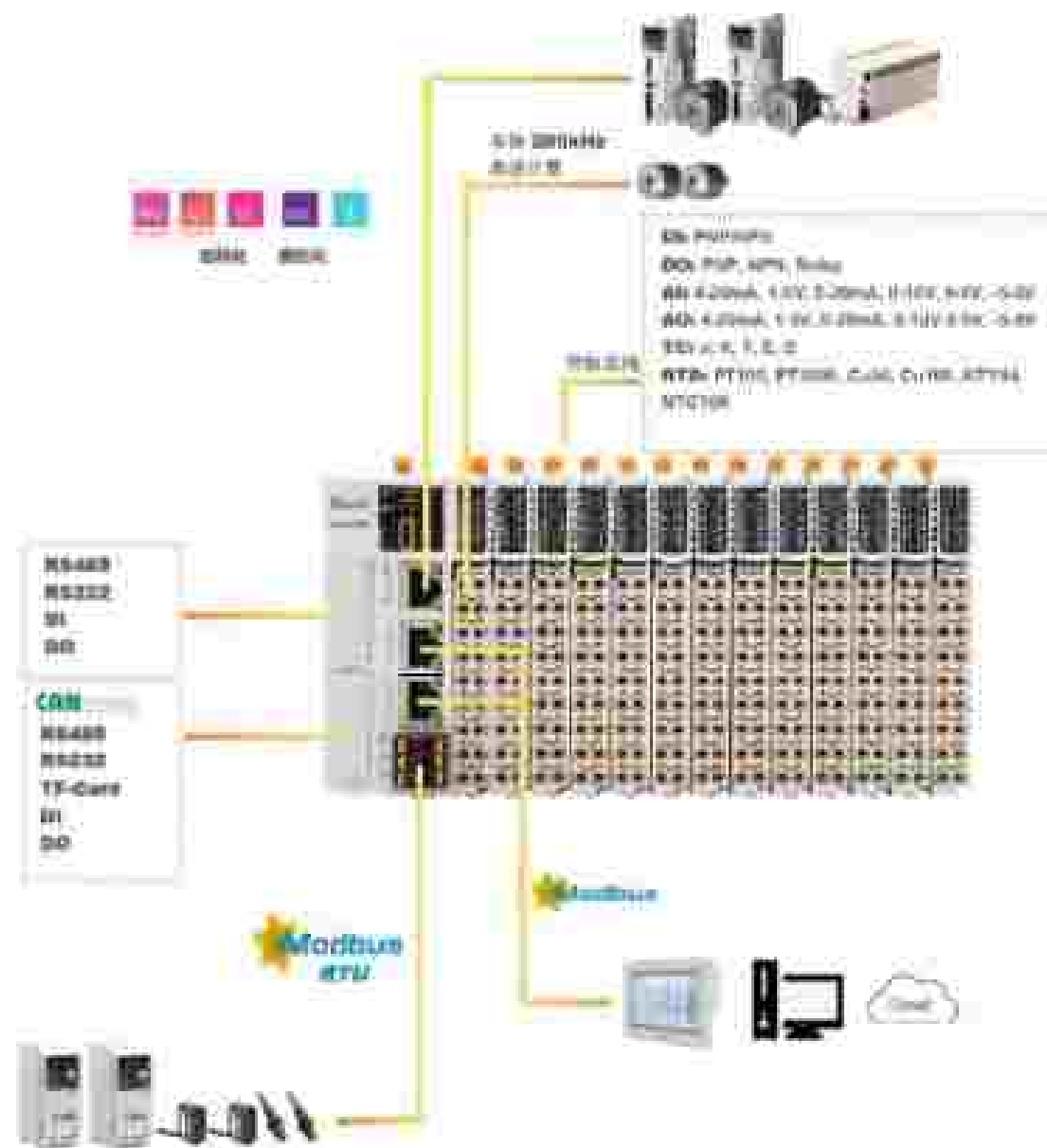


8-position tee terminals with double-sided jaws and nickel-gold double-plating process to ensure reliable transmission and durability between modules

AK8X0 Series Medium Motion Controller Configuration

	AK840M-0008DTN	AK840M-0008DTP
Input power supply rated voltage	24V DC +/-20%	
Input power supply rated power	6W (stand-alone power)/20W (full power)	
Input power protection	Overcurrent protection Anti-reverse connection protection Surge Absorption	
Communication Interface	1*EtherCAT Minimum synchronisation period 1ms, supports up to 32 axes Performance with axes: B-axis synchronisation with 1ms cycle (execution time of motion control calculation)	
	2*Ethernet All support TCP master/slave, each channel supports up to 31 TCP slaves. All support programme download	
	1*RS485, support Modbus RTU master-slave protocol Supports up to 31 Modbus RTU slaves	
	1*USB OTG support for firmware update using USB stick (FAT32 format)	
	8-channel digital input, support NPN/PNP, support 2-channel high-speed pulse input Support A/B phase, pulse/direction signals, support up to 200KHz pulse inputs	
Intrinsic I/O	8 digital outputs, support NPN	8 digital outputs, support PNP
Intrinsic Expansion	Kinco-specific K-bus backplane buses Supports up to 16 RP20 series local expansion modules	
Motion control	8-32 axes, 1ms-4ms Support electronic gear, electronic cam, interpolation and other motion control functions	
Program memory	32MB	
Data Memory	32MB	
Power-down memory	1MB	
Dimensions (W × H × D) mm	57 X 80 X 108	

Kinco 步科
主料供应 全球140



AK840's Unique Advantages

✓ Native CoDeSys platform

Conforms to IEC61131-3 standard and supports mixed programming in multiple languages; Motion control function libraries compliant with PLCOpen standard; support for custom library packages to help customers with process library package integration and reuse, etc.

✓ EtherCAT + dual Ethernet + CAN bus + RS485

Multiple interfaces for more scenarios

✓ High-performance platforms

4-core industrial-grade CPU, support for motion control 1ms 3-axis synchronisation, 4ms 32-axis synchronisation (typical), support for interpolated motion, chase shear, tying shear and so on.

✓ Compact design

Compact and reliable, 12mm ultra-thin blade design, side double-sided clamping de-wiring expansion

✓ Dual Expansion Channel

Modular miniaturised design, the body comes with 8DI, 8DO, which can be expanded via soft bus, also using 8D slot for multi-function expansion.

✓ Support 16 modules for free expansion

Backplane type double-sided clamping clips de-wired plug, support 24-bit high-precision analogue detection, multi-function module free choice



AK840 Series Motion Controller Application Scenarios



Logistics industry: palletisers

- Using codesys standard palletising robot model, development time is saved by 30%.
- 3-axis interpolation path optimisation algorithm, 20% increase in palletising speed.
- Supports multiple palletising methods (interleaving, stacking, adaptive adjustment), compatible with multiple cargo types, adapting to complex logistics environments.
- Dual network ports support WMS/MES docking for cloud docking and intelligent scheduling.



Packaging industry: high-speed packaging machine

- Efficient co-operation, efficiency enhancement: high speed film feeding, precise film cutting, synchronous sealing.
- High-speed input colour-coded detection, support 120–150 packages/min, high-speed operation without lagging
- 1ms high-speed synchronisation ensures sealing error <0.5mm, improving yield.



Lithium industry: coating machine

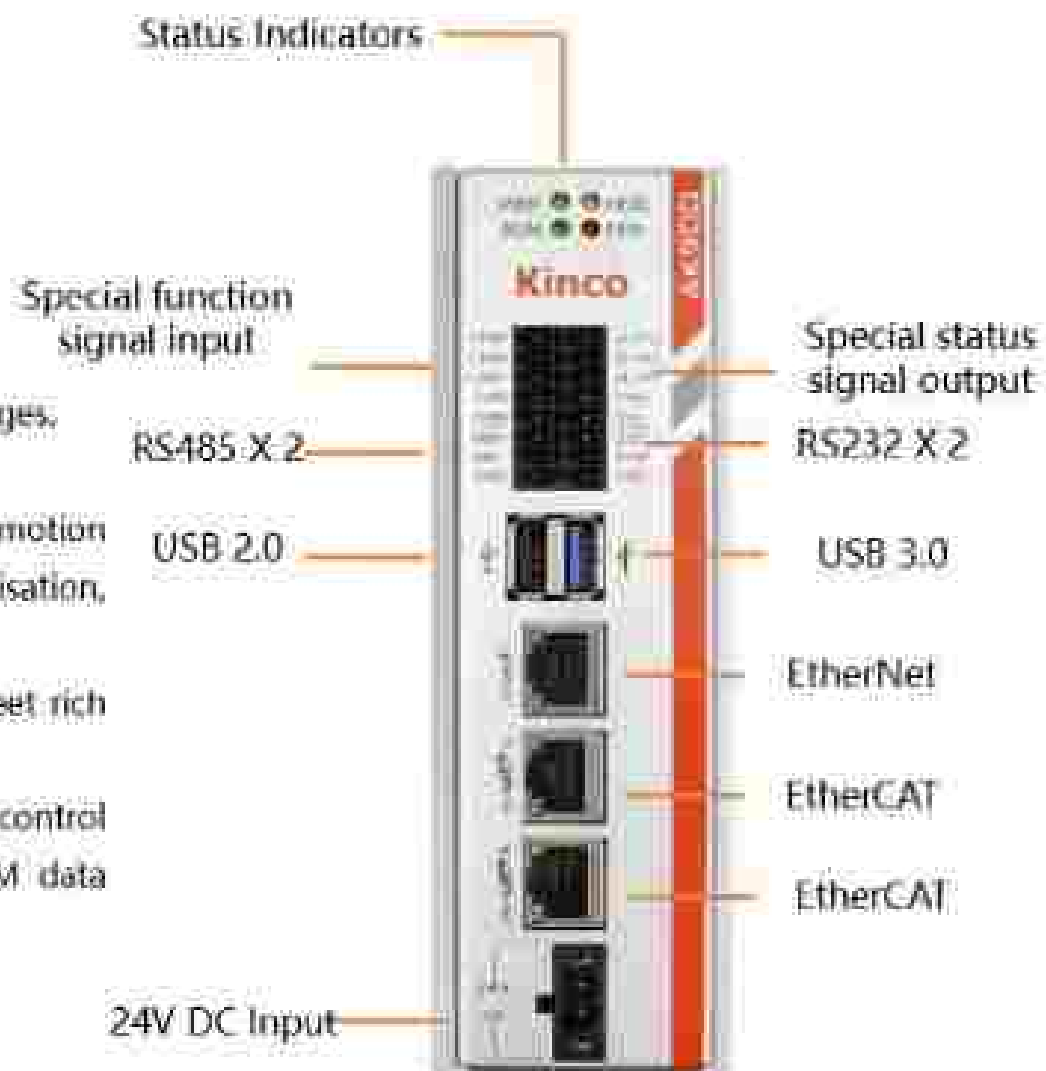
- High precision coating $\pm 0.05\text{mm}$, ensure stable quality of battery cell.
- 95m/min high-speed synchronous coating, 25% increase in production capacity.
- Intelligent tension control $\pm 0.3\text{N}$, avoiding pole piece deflection & tape breakage, guaranteeing the yield.

AK900 Large Intelligent Controller

AK900 Serie Large-Sized Controller



- Equipped with CoDeSys V3.5 software, supporting six IEC programming languages;
- Book-style intelligent controller, saving installation space
- Support multi-axis interpolation and electronic cam and other complex motion control standard **dual Ethercat**, support for ring network, 1ms64-axis synchronisation, maximum support for **128 axes each way**
- Equipped with 1*EtherNet, 2 RS485+1 RS232, 2 USB interfaces, which can meet rich application requirements;
- The body comes with special state D/VDO, articulation robot, industrial control machine and other systems large storage: 128M programme storage, 128M data storage.
- Support for external UPS to establish 5M power-down hold.

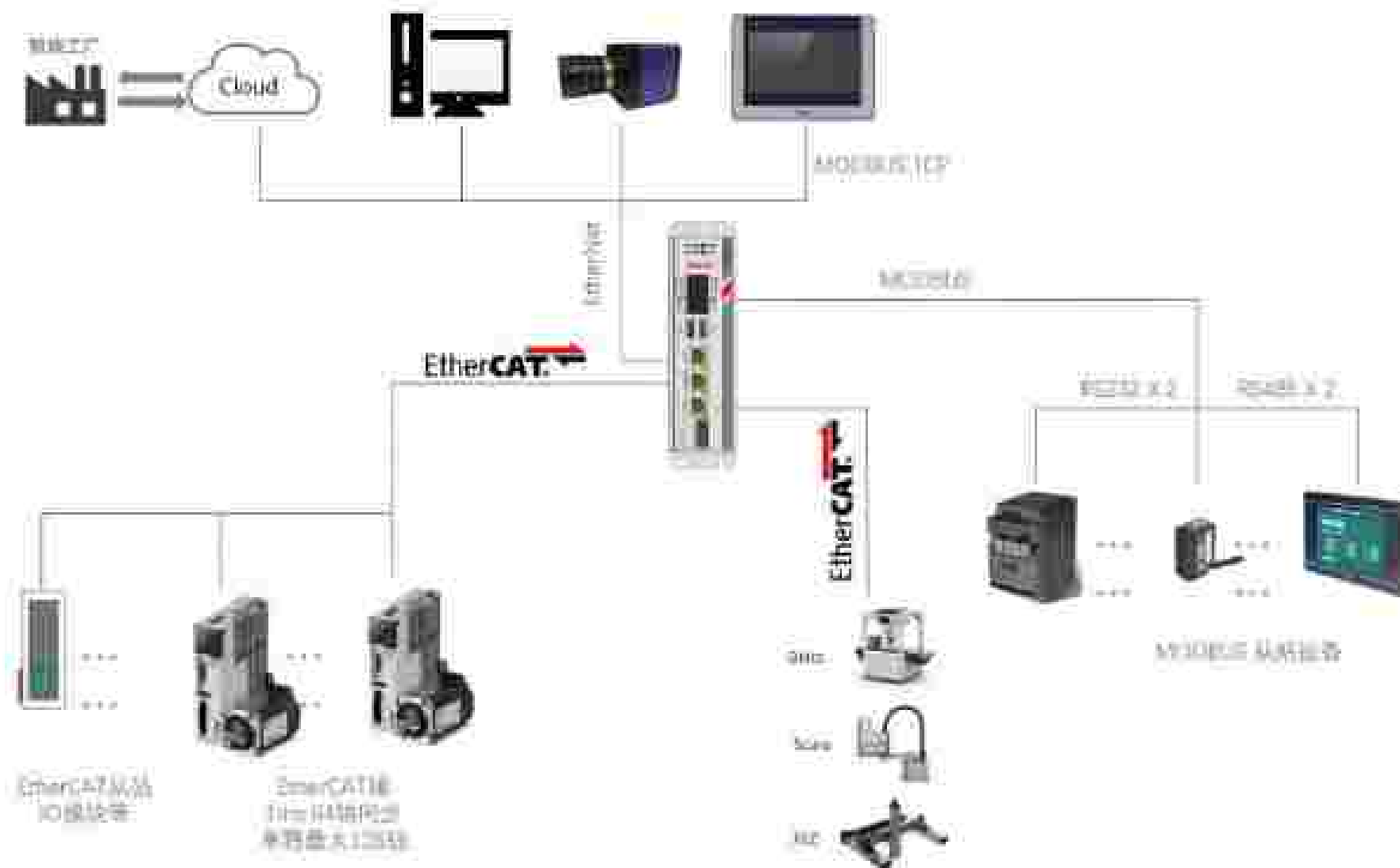


AK900VS other brands performance comparison

Project	AC70X	AK900
Power Supply	24VDC(-15%~20%)	24VDC(-25%~20%)
CPU Model	Intel J1900/2GHz	Intel N4505/2GHz
Memory Capacity	4GB	4GB
Memory Type	DDR3 SO-DIMM	DDR4 SO-DIMM
Hard Disk Capacity	64GB	64GB
Disk Format	mSATA SSD	mSATA SSD
Number of EtherCAT axes	16/32 axes	64/128-axes
User programme memory	128M Byte	128M Byte
User data storage capacity	128M Byte	128M Byte
EtherCAT Communication	Route 1 (up to 28 stops per route)	2-way (up to 128 slaves each); Ring support
Modbus TCP communication	Route 2 (up to 63 stops)	1 + EtherCAT multiplexing (up to 63 slaves)
Modbus (serial)	2-way (up to 31 slaves per way)	1 x 485 (up to 31 slaves per channel); 1 x 232
Power-down retention space	5MB	5MB, Built-in super capacitor
Volume (mm)	H 160*W 55*D 147	H 176*W 51.8*D 125
Heat dissipation method	Natural Cooling	Natural Cooling

- Latest platform algorithm
- More powerful performance
- Support ring network, adapt to redundancy + security scenarios
- Super capacitor for more reliable storage

AK900 Series Typical Application Diagram



Unique advantages of AK900

✓ Native CoDeSys platform

Conforms to IEC61131-3 standard and supports mixed programming in multiple languages; Motion control function libraries compliant with PLCOpen standard; support for custom library packages to help customers with process library package integration and reuse, etc.

✓ Dual EtherCAT

Dual EtherCAT, ring support, adapted to redundancy + security scenarios

✓ High-performance platforms

Equipped with Intel N4505, 2GHz powerful platform, 1ms 64-axis synchronisation. Each EtherCAT channel supports up to 128 axes of synchronous motion control.

✓ multiprotocol interface

Ethernet + RS485 + RS232, support the adaptation of a variety of peripherals

✓ Controller State IO Design

Special status DI/DO as standard, connecting to robots, industrial controllers and other systems.

✓ 5M super capacitor for more reliable storage

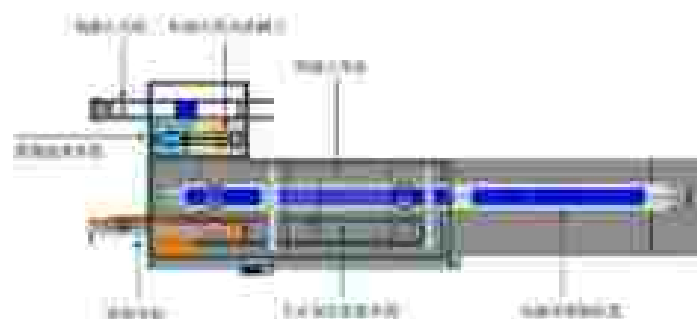
128M programme memory + 128M data memory + support for external UPS to establish 5M power-down retention





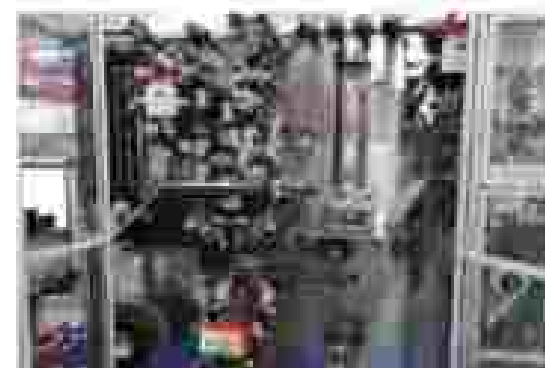
Four-colour gravure printing machine

- Multi-axis-electronic cam synchronisation, deviation correction, execution cycle time 2ms
- 30% efficiency improvement
- Unwind and unwind paper force control, non-stop roll change algorithm
- 250m/min, ± 0.1 mm overprint accuracy



Photovoltaic: String Welder

- Improvement of quality rate: compatible with 156×156 , 156×78 , etc., capable of switching rate between four-grid, five-grid, six-grid and half-cells.
- Reduced fragmentation rate: accurate positioning of the main grid lines, reliable cell transfer and welding process, significantly reducing the fragmentation rate.
- High overlap accuracy: Highly responsive positioning ensures the overlap accuracy between the main grid lines and the welding tape.

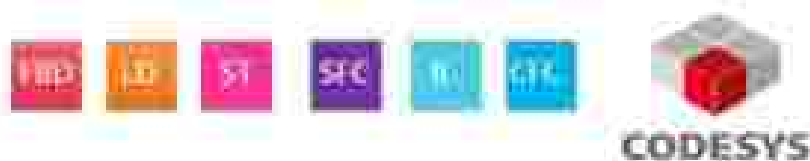


Lithium: Battery Winding Machine

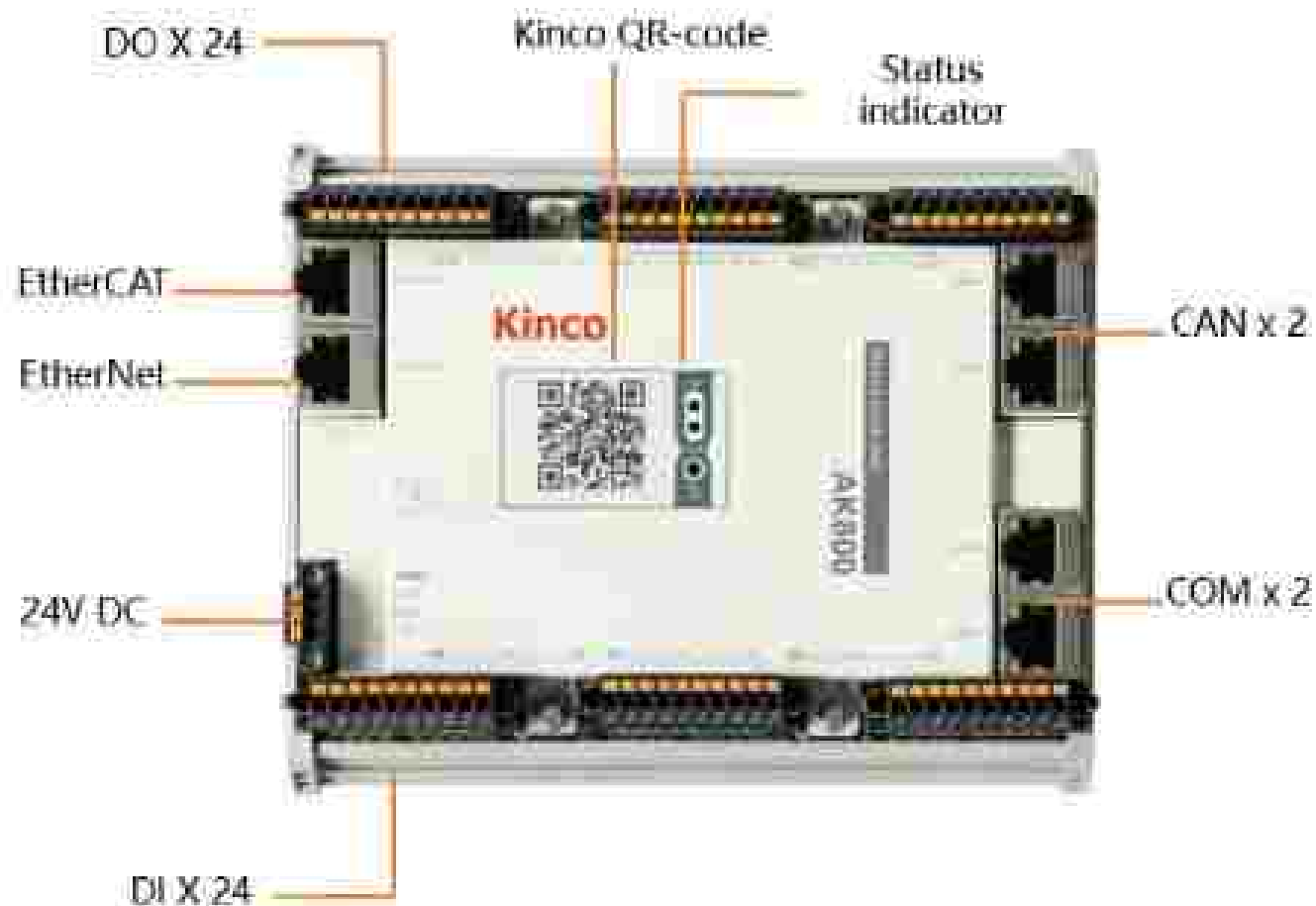
- Multi-axis synchronisation with vision for automatic process deviation correction and core quality inspection.
- Winding and unwinding tension control algorithms, cutting control algorithms, etc.
- More than 15~30PCS/min

AK800 Flat Medium Motion Controller

AK800 Flat Motion Controller



- Equipped with CoDeSys V3.5 software, supporting six IEC programming languages.
- Flat aluminium housing design, only 60.5mm high, suitable for AGV, AMR and other low vertical application scenarios.
- Standard 1-channel Ethercat, 16-axis synchronous operation and control, support interpolation and electronic cam and other complex motion control.
- Equipped with dual CANopen, 1*EtherNet and 2*serial ports (2 RS485+1 RS232), which can meet the requirements of rich applications.
- The body comes with 24 inputs and 24 outputs.
- 20M programme storage, 20M data storage



AK800 Series Mid-Size Motion Controller Configuration

	AK800M-400T
Power supply	24V DC
Intrinsic switching	EI*24+DO*24
Communication	1*EtherCAT minimum synchronisation period 1ms, up to 32 axes with axis performance: 8 axes synchronised with 1ms period (execution time of the motion control calculation)
	2*Ethernet both support TCP master/slave, each support up to 31 TCP slaves are supported on the program downloads
	1*RS485, supports Modbus RTU master-slave protocol up to 31 Modbus RTU slaves
	1*USB OTG support for firmware update using USB stick (FAT32 format)
Interface	Remote expansion via EtherCAT/CAN
Expansion mode	20MB
Program memory	20MB
Data memory	SD*1, USB Host*1
Dimensions (W × H × D) mm	57 X 80 X 108



AMR Robot

- Flat design fits AMR low installation space.
- Positioning algorithm through AK800, overall positioning accuracy, soft running curve, no lag, smooth switching.
- Match the scanning code positioning and photoelectric positioning technology, adapt to the scene changes.
- Communication detects the battery status, presenting the power status in time.
- Supports WMS/MES/FMS docking, realising intelligent scheduling & assignment.

RP20 Series Remote I/O System

RP20 Series Remote I/O Product Profile

CANopen

EtherCAT

■ Beautiful exterior

Cooperated with Phoenix to develop the structure, the overall appearance of the design of the beautiful, more texture colour matching

■ Compact and reliable

Blade design, IO module thickness as small as 12mm, coupler 24mm, with double-sided jaws 8-position tee terminal

■ Feature-rich and accuracy-enhancing

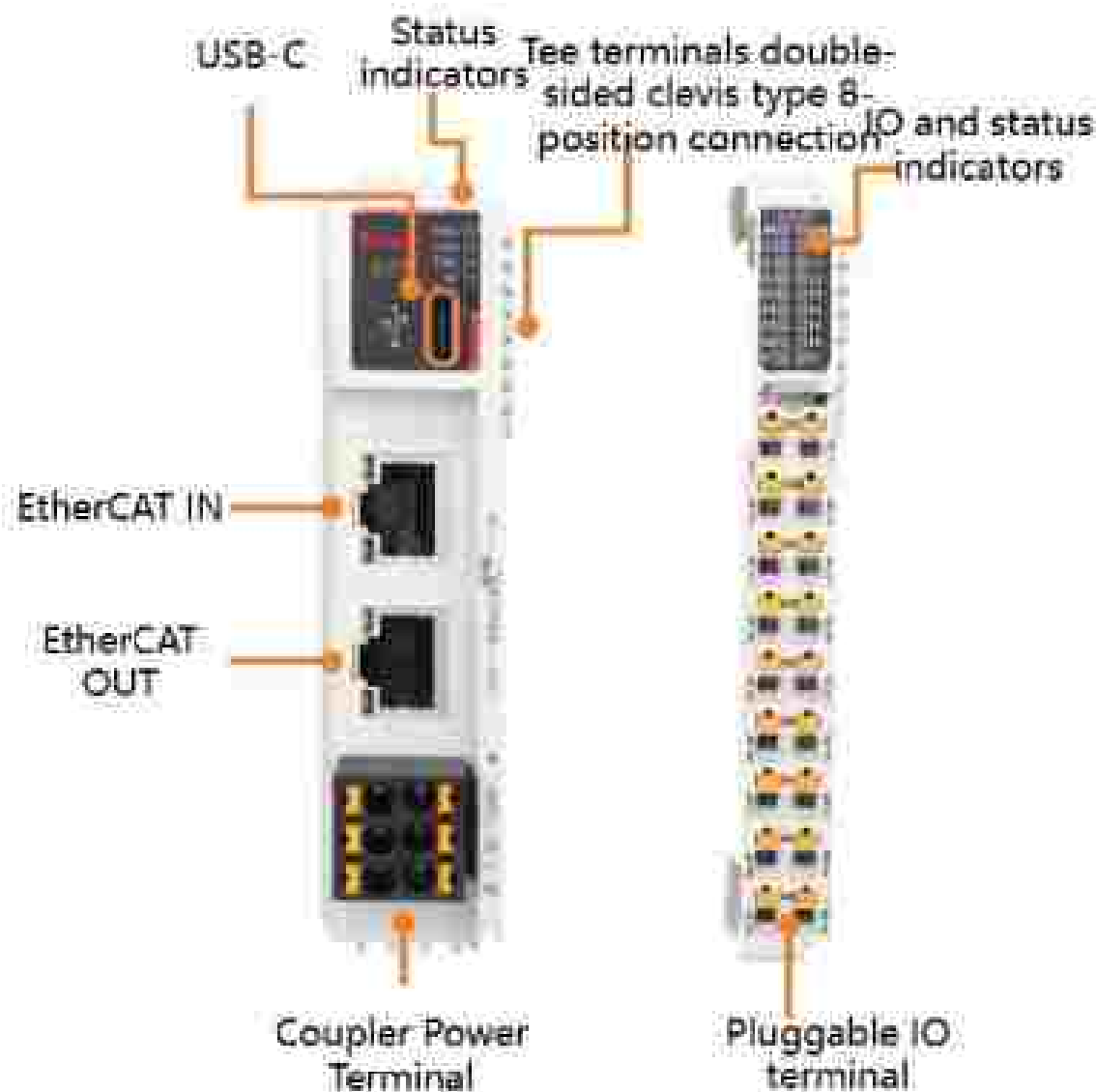
Support digital, analogue, temperature detection and other multi-functional optional, 24-bit high-precision analogue and temperature control detection

■ Supports EtherCAT, CAN, etc.

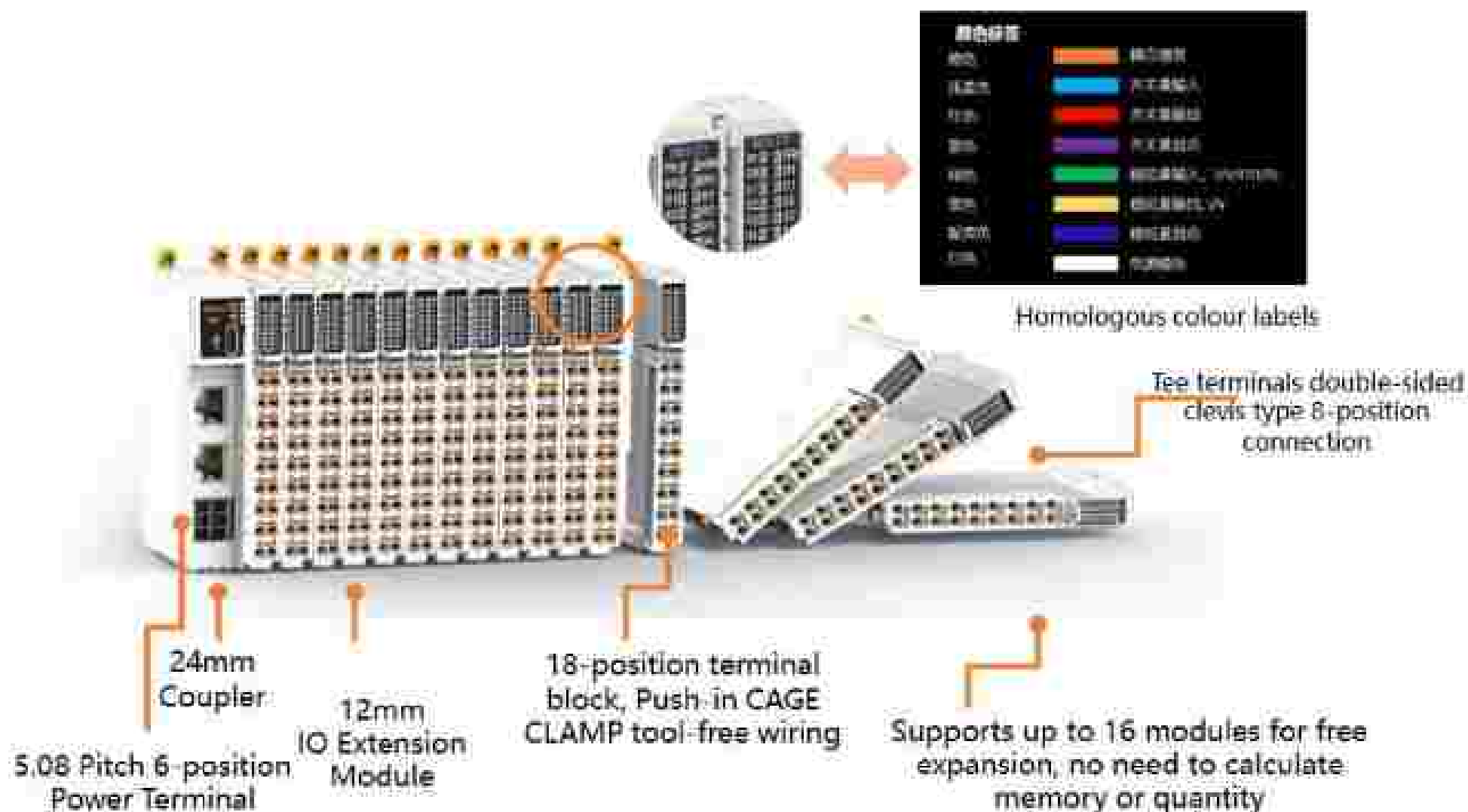
Support EtherCAT slave, CAN slave and other protocols

■ Powerful Hardware Design

LVDS+FPGA design ensures 100Mbps communication rate on the backplane, and I/O input/output latency is <50μs, which is much higher than the standard of the same category.



RP20 Series Remote I/O Product Profile



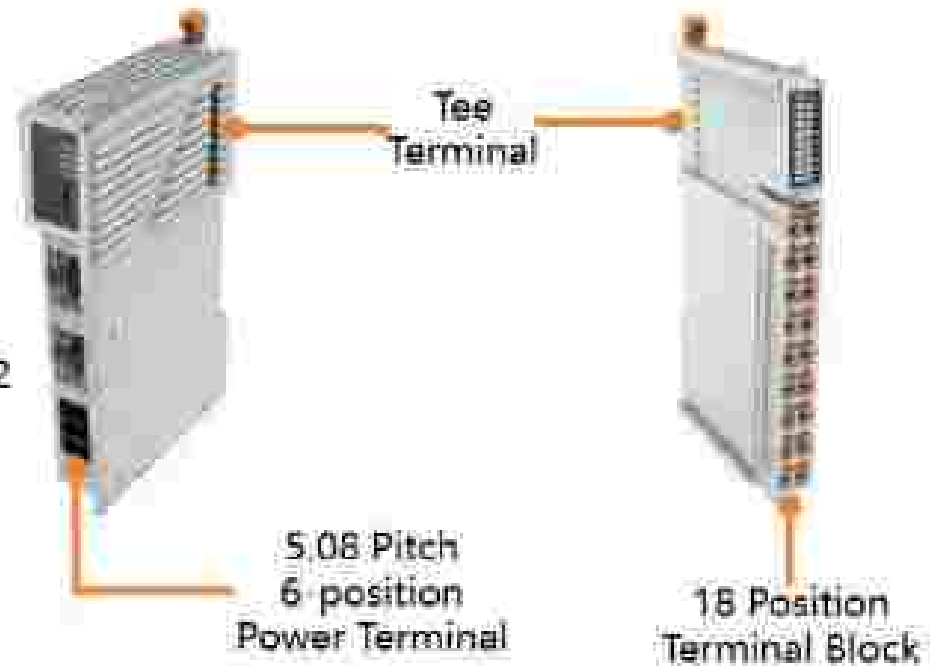
RP20 Series - Phoenix Co-operative Enclosures



24mm Coupler
12mm IO Extension Module
Terminal cover

← Slim "Blade" Design →

- **Small and compact:** coupler 24 mm, IO module 12 mm.
- 18-position inline spring terminals for **tool-free installation and efficient connections**
- **Reliable inter-module transfer:** 8-position tee terminals with double-sided clamping
- Simple structure, **convenient for production assembly and on-site maintenance**
- **Self-resetting** function for guide rail tie rods
- Optional rail grounding spring to **meet THR process**.



Tee Terminal

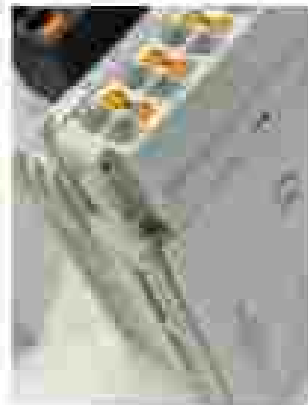
5.08 Pitch
6-position
Power Terminal

18 Position
Terminal Block

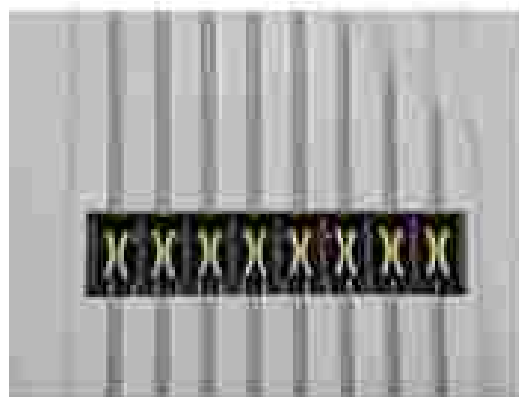
RP20 Series - Phoenix Co-operative Enclosures



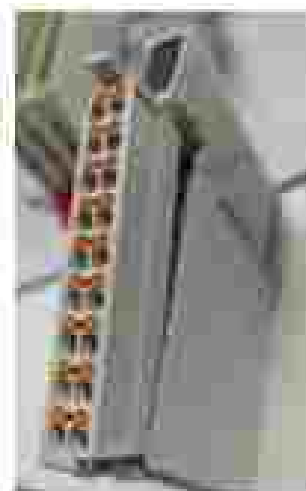
Front connector of the module is equipped with a cable fixing place for convenient cable management and cleanliness.



Blade-type compact design, single module width up to 12mm thin, coupler only 24mm
Flexible modular layout, can avoid space waste



The connector is a double sided chuck type 8 position connection, stable, reliable and shock resistant nickel and gold double plating process improves the reliability and durability of the connector.



Push-in CAGE CLAMP technology meets the need for stable connections in high-end applications and enables tool-free wiring;
The terminals support vertical unplugging and plugging, convenient maintenance without repeated dismantling.

RP20 Remote I/O- Coupler Models and Specifications

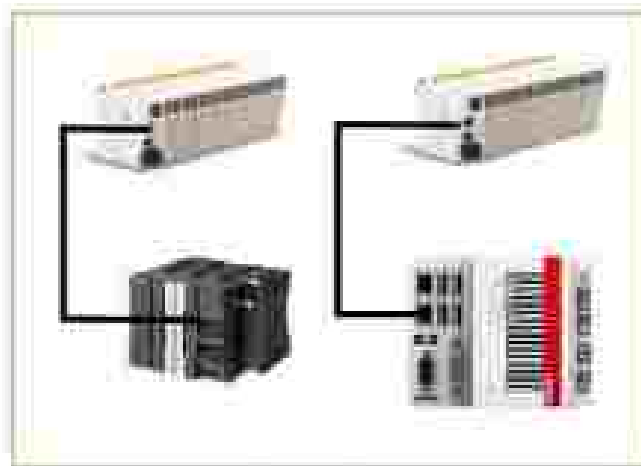
	RP20C-ECT
Input power supply rated voltage	24V DC $\pm$ 20%
Rated power of the body	1.5W
Input power supply maximum power	20W (extended maximum number of modules)
Bus output power supply rated voltage	5V DC (4.75V DC ~ 5.25V DC)
Bus output power supply rated current	2.5A (Typical at 5V)
Input Power Protection	Overcurrent protection Anti-reverse connection protection Surge Absorption
Coupler Bus Protocol	EtherCAT
Bus Interface	2 × RJ45
Maximum distance between stations	100m
E-bus extended bus communication rate	100Mbps
Refresh method	DC-Sync mode; Minimum support 1ms SM-Sync mode
Expansion specification	Connect up to 16 RP20 expansion modules
IO Refresh	Up to 60us with 16 modules
Dimensions (W × H × D)	24.3mm × 100mm × 60mm
Dimensions (W × H × D) Weight	About 120g

RP20 Series Remote IO Application Scenarios



AK840+RP20 oversized point control scene

- Thousands of IO points required on automotive welding, assembly and other production lines, with up to 1024 IO points via couplers.
- Remote IO sites are arranged at critical process locations
- Each remote IO coupler can manage the I/O points in sub-sites.



Third Party Controller I/O Expansion

- Cost-effective alternative to third-party brand I/O
- Supports a variety of mainstream coupling protocols, seamlessly connecting to third-party PLCs.
- Adapts to high response master detection



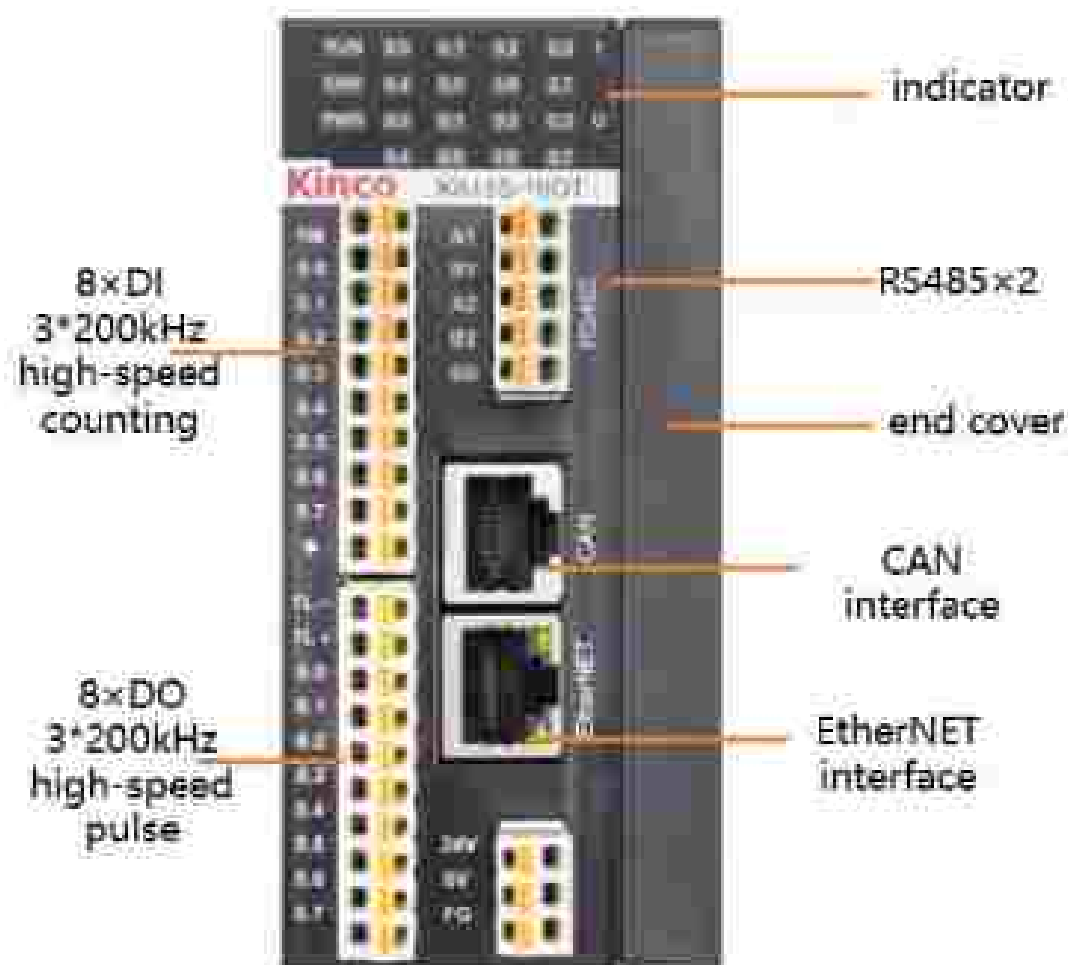
Long-term intelligent data collection

- Supports multi-point detection and actuation in long conveyor line scenarios such as logistics sorting centres, automotive assembly lines.
- Reduces wiring problems and improves system response time.
- Supports free expansion of various function modules
- Adapt to a variety of mainstream coupler protocols, seamless docking
- High-precision detection

K6S Series Slice Type Compact PLC

K6S Series Slice Type Compact PLCs

- Equipped with new MCU, faster execution speed;
- Kinco **full-autonomous platform: KincoBuilder** 
- Provide 8K instruction programme storage space, 20K bytes of data storage space;
- Standard with 1 * **Ethernet**, 2 * **RS485**, 1 * **CAN** (CAN and RS485 interface are self-isolated), a variety of communication protocol options;
- Integrated real-time clock (RTC), 4-channel high-speed pulse input (support for single / dual-phase, A-phase quadrature counting mode), 4-channel high-speed pulse output (all channels support PTO, PWM mode output);
- **Thin-panel modular** plug and play design, compact installation, saving more than 50% of lateral installation space, **maximum 16 expansion modules** can be connected;
- **Tool-free** wiring fastening, making the installation and maintenance process more simple and efficient.



K6S Series Thin Film PLC Configurations

Specification Model	Attributes	Basic Description
K61SS-16DT	CPU	DC24V power supply, DI 8*DC24V(PNP/NPN), DO 8*DC24V(PNP) Support 3-way 200KHz high-speed counting input, 1-way single-phase 20KHz / dual-phase 10KHz Support 3 200KHz high speed pulse output, 1 high speed pulse up to 10KHz Integrated communication interface: 2 * RS485, 1 * Ethernet, 1 * CAN Maximum support for 16 K6S module expansion
K621S-16DX	Extension Module	DI 16*DC24V(NPN/PNP)
K622S-16DT		DO 16*DC24V(PNP)
K622S-16DR		DO 16*Relays
K623S-16DT		DI 8*DC24V(NPN/PNP), DO 8*DC24V(PNP)
K622S-16DTN		DO 16*DC24V(NPN)
K633S-04IV		12位分辨率, 精度0.3%FS AI*4: 4-20mA, 1-5V, 0-20mA, 0-10V AO*2: 4-20mA, 1-5V, 0-20mA, 0-10V
K631S-04TC		4通道热电偶输入, 支持J型, K型, E型, S型, T型热电偶/冷端内补偿, 外补偿可选 24位分辨率, 精度0.1%FS
K631S-04RD		4通道热电阻输入 支持PT100, Cu50, PT1000, 电阻形式 支持两线制, 三线制接线方式 24位分辨率, 精度±0.6°C(电阻+1°C)



Textile industry: Dyeing machines

- Temperature PID regulation, automatic control of steam valves, to ensure the dyeing temperature error $< \pm 0.5^{\circ}\text{C}$, improve colour fastness.
- Timing + valve control, precise control, improve dyeing consistency.
- Automatic replenishment of dyeing liquor + alarm, preventing the dyeing liquor from being too low to affect the process and reducing the rework rate by 20%.



Water treatment

- Modbus communication water quality sensor monitoring value
- Precise adjustment according to real-time water quality data, dosing error $\leq 3\%$
- Fault automatic alarm: automatic detection of equipment failure
- Unmanned control: control pumping stations, valves and other equipment start and stop, improve the stability of water flow, reduce labour costs and misoperation



Electrostatic precipitator

- Analogue output (regulation of high pressure generator)
- Timing control (periodic start of the vibration motor)
- Modbus TCP communication: communication with DCS system, real-time reporting of equipment status.

MK Series PLC+HMI integrated Machine

MK Series Integrated Machine Advantages



MK Series Integrated Machine:

- Integration + small size: HMI + PLC integration, saving installation space, rapid deployment
- Feature-rich: comes with up to 33 points of IO and analogue, a variety of models to choose from
- Strong communication capability: support CANopen, OPC UA, Modbus and other interfaces.
- Internet of Things (IoT) function: standard Ethernet port, support for remote maintenance.
- Integrated local high-speed IO (up to 200kHz), support Kinco motion control function, multi-channel PID real-time control.
- Cost-effective: de-cabinetisation, cost reduction tools

MK Series Integrated Machine Application Scenarios



Intelligent Livestock Fisheries/Agriculture

- PLC with 485 communication multi-slave station
- Internet of things to master the site status
- User rights management
- Historical event storage
- Unattended, remote control
- IO control of multiple motors
- Automatic and manual multi-operation mode



Buildings: HVAC/water treatment

- Unattended, remote control
- Data storage record
- Multi-channel analogue PID regulation
- Multi-group network



Chemical/lab equipment

- Multiple recipe groups
- Adequate IO, CAN as standard, with inverter servo
- Supports temperature/analogue measurements
- Suitable for small machines

MK Series Configuration (Standards)

Models	Specification
MK070E-33DT	DC24V integrated power supply, USB SLAVE programming interface (USB-B, common to PLC and HMI). Logic control part: DI 16*DC24V(source/drain), DO 14*DC24V(PNP), AI 2*IV, AO 1*IV, 2*RS485, 1*expansion interface(can connect 8 KS expansion modules); Display section:7" TFT, 1*USBHOST(USB-A), 1*Ethernet interface, support M-IoT function;
MK070E-32DX	DC24V integrated power supply, USB SLAVE programming interface (USB-B, common to PLC and HMI). Logic control part: DI 16*DC24V(source/drain), DO 4*DC24V(PNP)+12*Relay, 2*RS485, 1*Expansion interface(can connect 8 KS series expansion modules); Display: 7" TFT, 1*USBHOST(USB-A), 1*Ethernet interface, support M-IoT function.
MK043E-20DT	DC24V integrated power supply, USB SLAVE programming enclosure (USB-B, PLC and HMI common). Logic control part: DI 9*DC24V (source/drain), DO 9*DC24V (PNP), AI 2*voltage input, 2*RS485, 1*expansion interface (can be connected to 8 KS expansion modules); Display: 4.3 inch TFT, 1*USBHOST(USB-A), 1*Ethernet interface, support M-IoT function.
MK043E-27DT	DC24V integrated power supply, USB SLAVE programming interface (Type-C, common to PLC and HMI). Logic control part: DI 10*DC24V(source/drain), DO 10*DC24V(PNP), DI0 4*DC24V, AI 2*IV, AO 1*IV, 2*RS485, 1*expansion interface(can connect 8 KS series expansion modules); Display: 4.3 inch TFT, 1*USB HOST(USB-A), 1*RS232(COM2), 1*Ethernet interface, support M-IoT function.
MK043E-20DTC	DC24V integrated power supply, USB SLAVE programming interface (USB-B, common to PLC and HMI). Logic control part: DI 9*DC24V (source/drain), DO 9*DC24V (PNP), AI 2*TC (support I/K/E/T thermocouples, the cold end of the internal compensation, external compensation can be selected), 2*RS485 communication port, 1*expansion interface (can be connected to 8 KS series expansion modules); Display: 4.3 inch TFT, 1*USBHOST (USB-A), 1*Ethernet interface, support M-IoT function.
MK070E-27DRT	DC24V integrated power supply, USB SLAVE programming interface (USB-B, common to PLC and HMI). Logic control section: DI 12 * DC24V (voltage/drain), DO 12 * Relay, AI 3 * RD (support for Pt100 RTD, temperature range -40 ° C ~ 240 ° C), 2 * RS485 communication port, 1 * expansion interface (can be connected to the 8 KS series expansion module); Display: 7 inch TFT, 1*USBHOST (USB-A), 1*Ethernet interface, support M-IoT function.

MK Series Features Summary

- ✓ **IoT function**

Ethernet port is standard to support remote maintenance.

- ✓ **High-functioning**

Support high-speed IO, support Kinco motion control function, multi-channel PID real-time control.

- ✓ **Small size**

HMI+PLC integrated in one unit with small space requirement.

- ✓ **Quality-Price Ratio**

De-electrify cabinets to reduce overall costs.

- ✓ **Reliable communication**

Support CANopen, OPC UA, Modbus and other protocols.



Kinco PLC programming software system



✔ Supported Product Families:

K6S Series/MK Series/K6 Series/K5 Series/K2 Series, Small PLC Products

✔ Programming styles:

Early German ladder programming style, only supports ladder diagram (LD)/instruction list (IL) programming

✔ Software Languages:

Support Chinese, English, Russian



✔ Supported Product Families:

AK8X0 series/AKB00/AX500 series/AX900.

✔ Programming styles:

Advanced, inclusive and open software architecture, modern multi-language programming style, full IEC 61131-3 language support (LD, ST, FBD, SFC, etc.)

✔ Software Languages:

Support for Chinese, English, Russian, Turkish, German and other languages

Thank You

Kinco