

Authorized Distributor

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HELPING 1 MILLION ENTERPRISES ACHIEVE SMART MANUFACTURING

Innovation-Driven · Quality-First

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AMSAMOTION®

Product Selection Guide

Full-Scenario Solution & IoT Total Solutions

Stable · Professional · Reliable

Remote I/O Bus Series

HMI and All-in-One Family

IoT Series

Protocol Gateway Series

PLC Series

PLC Accessories Series

Company Profile

Dongguan AMSAMOTION Automation Technology Co., Ltd. (hereinafter referred to as "AMSAMOTION") was founded in 2006. It is a high-tech enterprise specializing in industrial automation equipment and IoT system solutions. With technological innovation as its core driving force, the company invests 12%-15% of its annual sales revenue into R&D, committed to providing customers with efficient and reliable intelligent products and solutions. In addition, through school-enterprise cooperation, we carry out industry-university-research education to cultivate automation talents for society, promoting the rapid development of both the industry and the enterprise.

**Corporate Mission**
Helping enterprises achieve smart manufacturing

**Corporate Vision**
Strive to change destiny, co-create a successful future

**Corporate Values**
Integrity, Responsibility, Innovation, Health



Development History

Development History



Honors & Certifications

The company has been awarded multiple honors including "National High-Tech Enterprise," "Specialized and Sophisticated SME," and "Innovative SME."



System certification certificate



Patent Certificate



Full-chain Live Scene

Factory real-life overview

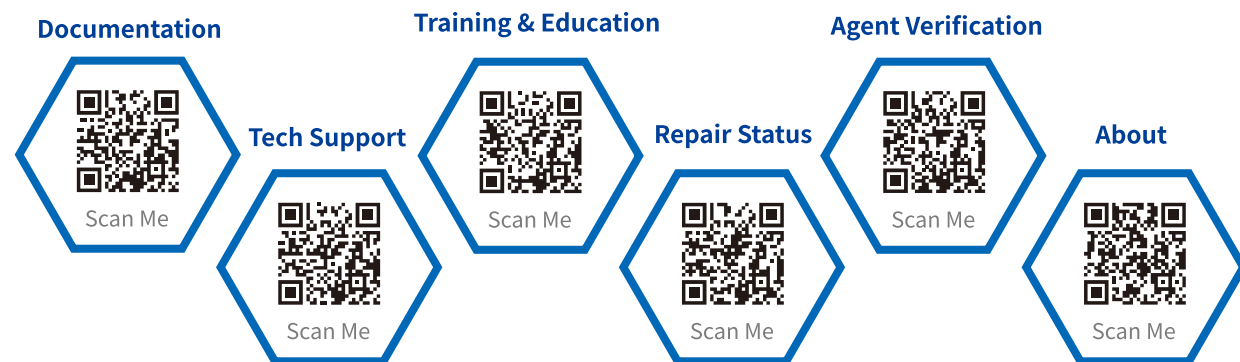


Warehouse & Aging Room



Service & Support

AMSAMOTION is committed to providing high-quality products and professional technical support, offering one-stop services to address product usage and project application challenges. By scanning the corresponding QR codes, users can easily access manuals, obtain technical support, request training services, track repair progress, and verify agent credentials – efficiently meeting various needs throughout the entire project lifecycle. Professional support, just a scan away.



Inspection Equipment



Authorized Distributor



AMSAMOTION not only has two R&D centers in Wuhan and Dongguan, but has also established a comprehensive distributor service network covering the following major cities:

East China: Shanghai, Hangzhou, Ningbo, Nanjing, Suzhou, Wuxi, Changzhou, Hefei

South China: Guangzhou, Shenzhen, Dongguan, Zhuhai, Foshan, Huizhou, Zhongshan, Jiangmen, Xiamen

North China: Beijing, Tianjin, Xi'an, Jinan, Qingdao, Shijiazhuang

Central China: Wuhan, Zhengzhou, Changsha, Nanchang, Huanggang, Suizhou

West China: Chengdu, Chongqing, Kunming Overseas & Taiwan Region, China: Taipei

- Documentation: <https://wikiv2.amsamotion.com/#/>
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- Training & Education: <https://www.amsamotion.com/wwh/train.html>
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Official stores on AliExpress, eBay, LAZADA, Ozon, Alibaba, and Shopee. Products exported to 100+ countries worldwide.

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AMSAMOTION

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Remote I/O Bus Series

The remote I/O bus significantly simplifies wiring, reduces integration costs, and enhances system reliability, enabling seamless data acquisition and control commands in complex industrial environments. It aims to break down communication barriers in the industrial field and achieve seamless interconnection between devices and controls. Examples include mainstream industrial bus protocols such as MODBUS, EtherCAT, PROFINET, Profibus-DP, CANopen, EtherNet/IP, and CC-Link. Users can choose different I/O module protocols according to their actual needs.



MODBUS TCP bus

Product Overview

MODBUS TCP remote I/O bus modules – Selectable DI/DO, AI/AO, temperature, load cell, and more per requirements. Simple & fast parameter setup with our self-developed configuration tool.

Product features

- ① Supports standard MODBUS TCP protocol;
- ② Equipped with various signal acquisition and control types, supporting multiple DI/DO and AI/AO channels; integrates multiple temperature sensor acquisition channels, supporting RTD, thermocouple, and other sensors;
- ③ Features built-in DIP switches for baud rate and station ID, eliminating complex operations; supports configuration via web interface or Amotion's dedicated tool for simple and easy debugging;
- ④ Supports TCP Client/Server; some modules support protocol conversion + RTU Master;
- ⑤ Equipped with RS485 communication interface, available with dual Ethernet ports or single Ethernet port, providing multiple communication connection options to suit different on-site wiring scenarios.



【book series】

MT3A Series – MODBUS TCP distributed I/O modules. Compact size, fast communication. Supports TCP Client/Server mode. 17 modules connected in series occupy only 1 communication resource; one master can connect up to 16 slaves, with automatic register mapping. Features dual Ethernet ports with built-in switch, pluggable terminal blocks with spring-type wiring. Supports configuration via web interface – easy installation and debugging.

Product Type	Product model	Product Description
DI/DO	MT3A-IO1631	16 DI (PNP/NPN) / 16 DO (Transistor PNP)
	MT3A-IO1632	16 DI (PNP/NPN) / 16 DO (Transistor PNP)
	MT3A-OD3201	32 DO (Transistor NPN)
	MT3A-OD3202	32 DO (Transistor PNP)
	MT3A-ID3230	32 DI (PNP/NPN)
	MT3A-ID1630	16 DI (PNP/NPN)
AI/AO	MT3A-AE1630	16 AI (Current/Voltage compatible); MODBUS TCP; 14-bit; Acc. $\pm 0.2\%$ FS; Sampling Rate: 100ms
	MT3A-AE0830	8 AI (Current/Voltage compatible); MODBUS TCP; 14-bit; Acc. $\pm 0.2\%$ FS; Sampling Rate: 100ms
	MT3A-AQ0810	8 AO (Full voltage 0~10V output); MODBUS TCP; 12-bit; Acc. $\pm 0.3\%$ FS
	MT3A-AQ0820	8 AO (Full current 0~20mA output); MODBUS TCP; 12-bit; Acc. $\pm 0.5\%$ FS
Temperature	MT3A-AR0893	8 channels; Supports full range of RTD sensors; Resolution: 0.01°C; Sampling Rate: 50ms
	MT3A-AT0892	8 channels; Supports full range of thermocouples; Resolution: 0.1°C; Accuracy: $\pm 2^\circ\text{C}$; Sampling Rate: approx. 200ms (filter parameter = 0) / approx. 2s (filter parameter = 10)
Load Cell	MT3A-AW0415	4 channels; Supports full range of strain gauge sensors; 5VDC $\pm 1\%$, Max current: 50mA; Combined accuracy: $\leq 0.03\%$ FS; Relative error: $\leq 0.08\%$

【BM Series】

BM Series – Distributed MODBUS TCP I/O modules. Compact & scalable, simple wiring, stable. Supports MODBUS TCP, S7 TCP, MC, and more. Up to 16 I/O points per module with screwless terminals for quick installation. 90° front-facing Ethernet port for easy access. Use alone or combine multiple modules.

Product Type	Product model	Product Description
DI/DO	MT1C-IO5R	5 DI / 5 DO; 1 x Ethernet port; 1 x RS485 terminal; Supports MR1C expansion
	MT1C-ID16	16 DI; 1 x Ethernet port; 1 x RS485 terminal; Supports MR1C expansion
AI/AO	MT1C-AQ0830G	8 AO; 11-bit; 1 x Ethernet port; 1 x RS485 terminal; Supports MR1C expansion; Isolated; Acc. $\pm 0.8\%$ FS
	MT1C-AQ0830	8 AO; 11-bit; 1 x Ethernet port; 1 x RS485 terminal; Supports MR1C expansion; Acc. $\pm 0.8\%$ FS

[Bread Series]

ETH-MODBUS/MT2 Series – MODBUS TCP distributed I/O modules. Built-in Ethernet & RS485, DIP switches for baud rate/station ID, easy setup with our configuration tool. Supports protocol conversion & RTU Master – data maps directly to PLC addresses, no programming required.

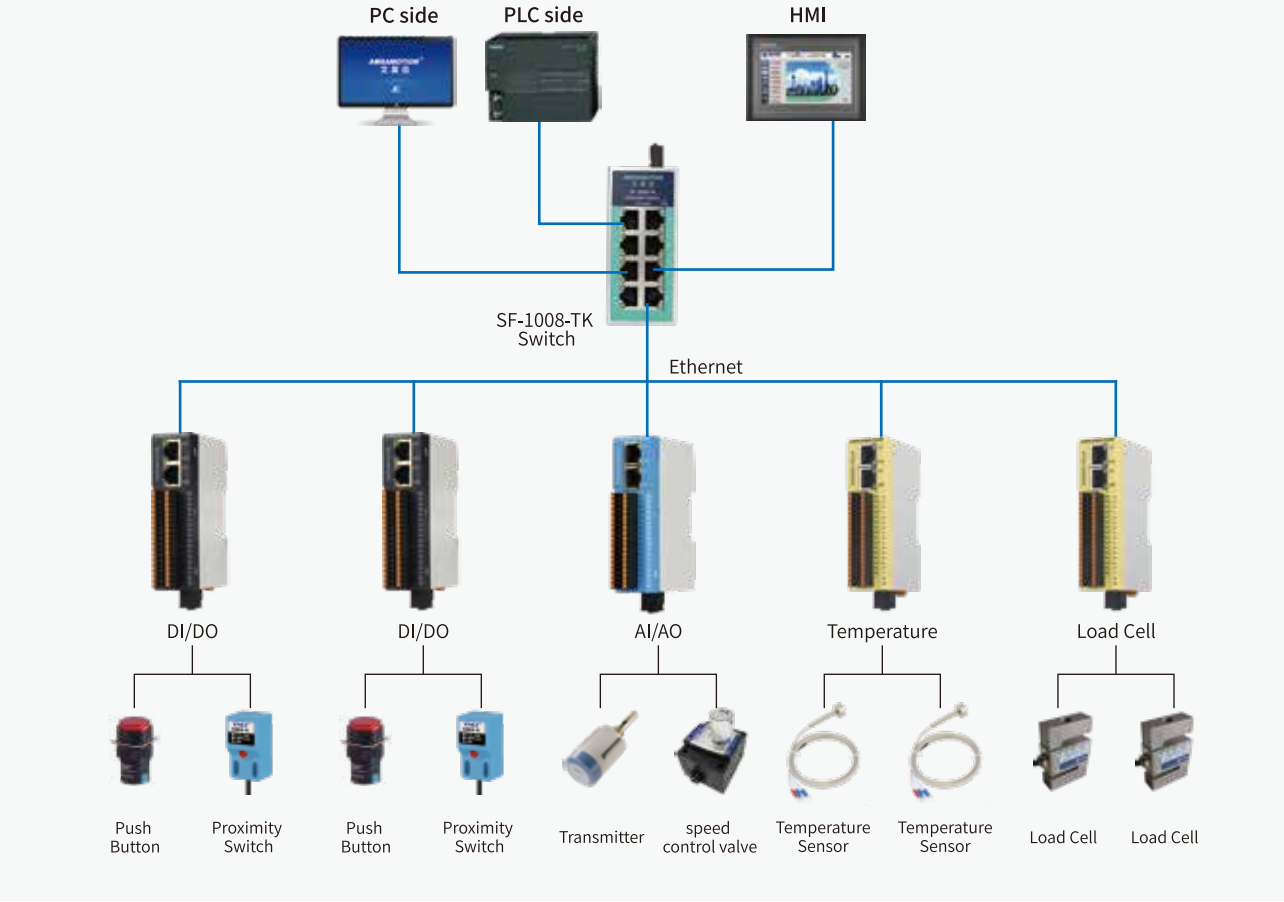
Product Type	Product model	Product Description
Mixed I/O	ETH-MODBUS-IO8R-A	8 DI / 8 DO (Relay); 6 AI (3CH 0~10V + 3CH 0~20mA) Acc. ±0.8%FS / 2 AO (0~10V / 0~20mA); 12-bit; Sampling Rate: 100ms
DI/DO	ETH-MODBUS-IO5R	5 DI / 5 DO (Relay); 1 x RS485/RS232; 1 x Ethernet port
	ETH-MODBUS-IO16R	16 DI / 16 DO (Relay); 2 x RS485; 1 x Ethernet port
	ETH-MODBUS-IO16T	16 DI / 16 DO (Transistor PNP); 2 x RS485; 1 x Ethernet port
	ETH-MODBUS-I32	32 DI; 2 x RS485; 1 x Ethernet port
	ETH-MODBUS-O16R	16 DO (Relay); 2 x RS485; 1 x Ethernet port
AI/AO	ETH-MODBUS-O32T	32 DO (Transistor PNP); 2 x RS485; 1 x Ethernet port
	MT2-AM8	4 AI (0~10V / 0~20mA; 12-bit; Sampling Rate: 8ms) Acc. ±0.8%FS / 4 AO (0~10V / 0~20mA; 8-bit) Acc. ±0.8%FS; 1 x RS485; 1 x Ethernet port
	MT2-AE8	8 AI (0~10V / 0~20mA); 15-bit; Acc. ±0.8%FS; Sampling Rate: 250ms; 1 x RS485; 1 x Ethernet port
	MT2-AQ8-8AO	8 AO (0~10V / 0~20mA); Acc. ±0.8%FS; 12-bit; 1 x RS485; 1 x Ethernet port
Temperature	MT2-AR8-PT100	8 x PT100 Inputs; Resolution: 0.1°C; Measurement Error: <1°C; Range: -50°C ~ 300°C; 1 x RS485; 1 x Ethernet port
	MT2-AN8-NTC10K	8 x NTC Inputs; Resolution: 0.1°C; Measurement Error: <1°C; Range: -50°C ~ 150°C; 1 x RS485; 1 x Ethernet port

[snowboard series]

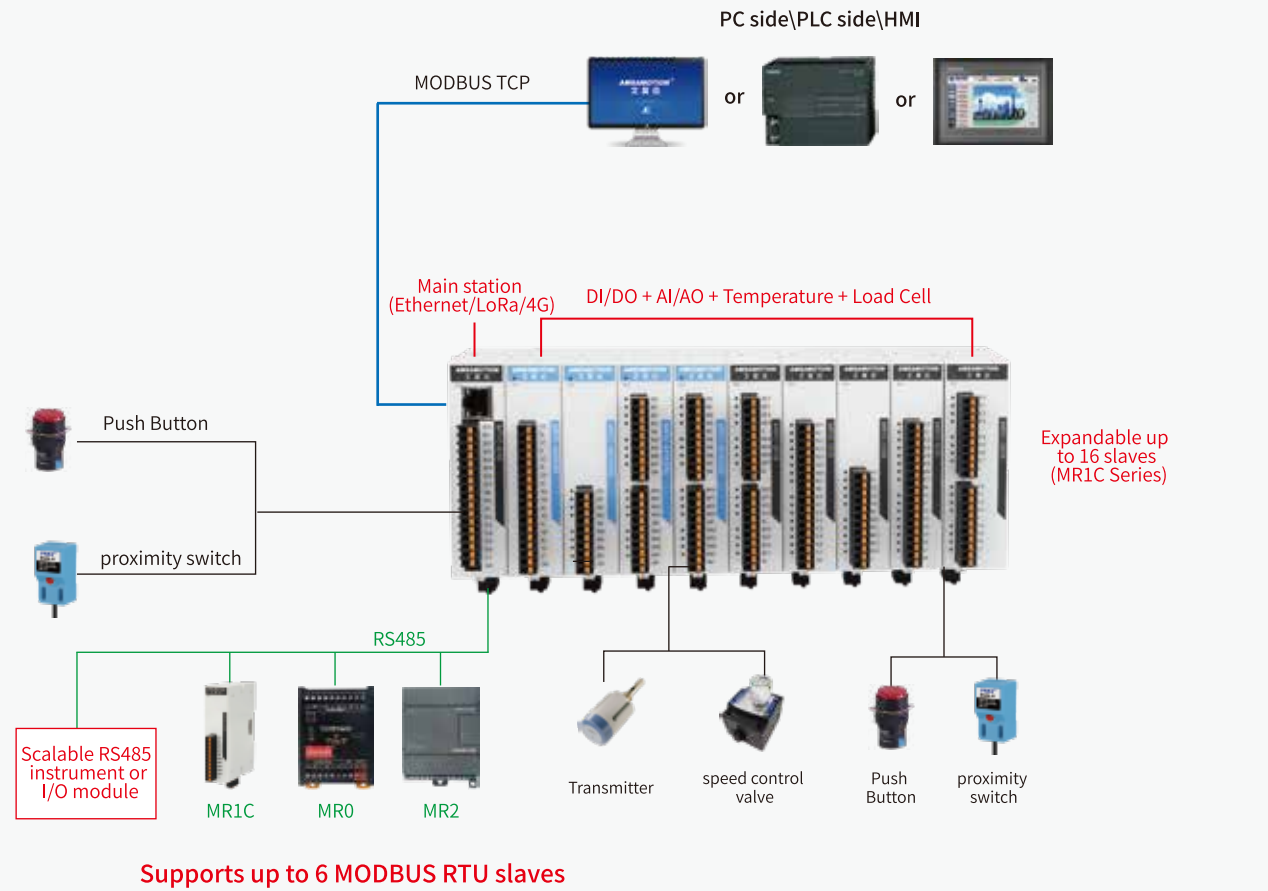
AI/AO	MT1-AMG20	4 AO (0~10V / 0~20mA; 12-bit) Acc. ±0.8%FS / 16 AI (0~10V / 0~20mA; 16-bit) Acc. ±0.2%FS; Sampling Rate: 100ms
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▲ Application scenarios

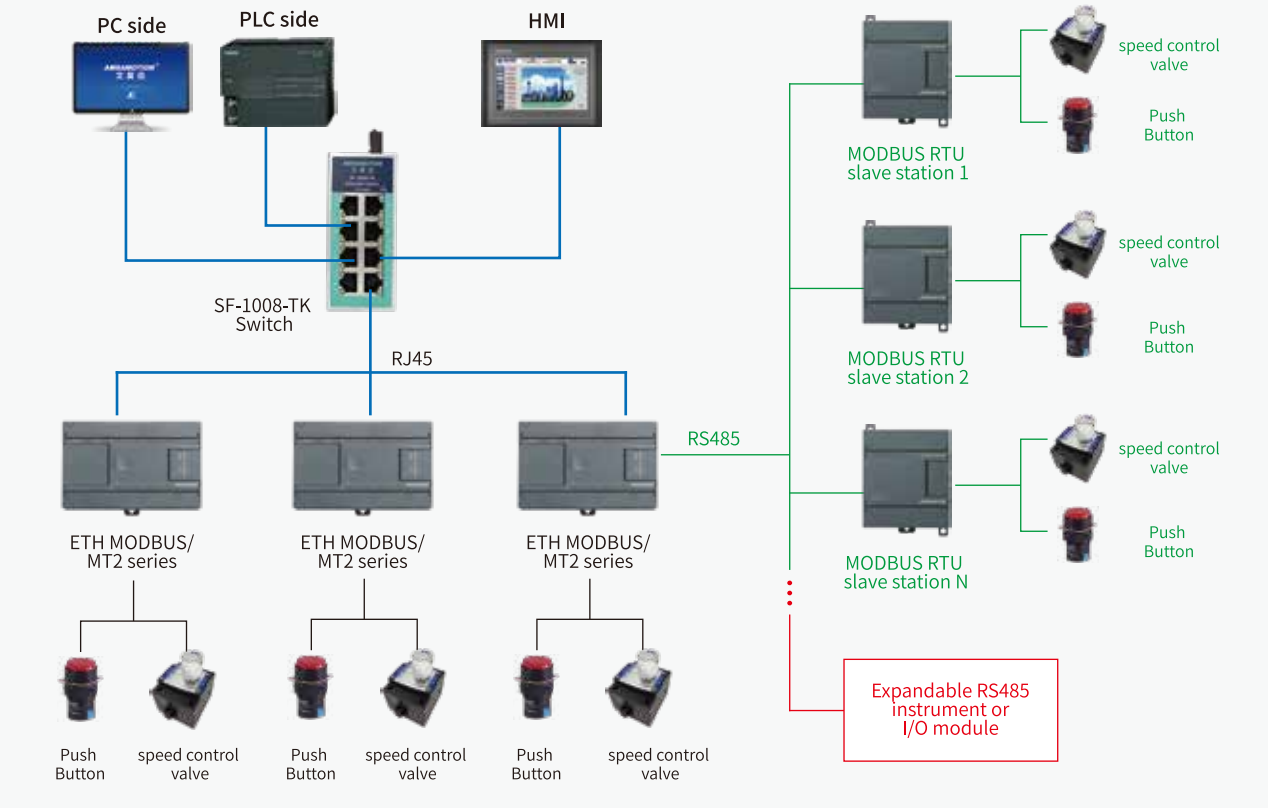
■ Book series connection diagram



■ BM series connection diagram



■ Bread series connection diagram



► MODBUS RTU bus

▲ Product Overview

MODBUS RTU remote I/O bus module family. Offers DI/DO, AI/AO, temperature, and load cell modules – configurable as needed. With our self-developed configuration tool, parameter setup is quick and commissioning is efficient.

▲ Product features

- ① Standard MODBUS RTU protocol & RS485 serial communication;
- ② Multiple signal types: DI/DO, AI/AO channels; some modules also feature RTD & thermocouple inputs;
- ③ Cascading expansion support for flexible addition of DI, DO, AI, AO, load cell points to meet various I/O requirements;
- ④ Built-in DIP switches for baud rate & station ID – no complex setup; easy configuration & debugging with Amotion dedicated tool.



【BM Book Series】

BM Series – High cost-effective distributed MODBUS RTU I/O modules. Compact & scalable, simple wiring, stable. Supports up to 16 I/O points per module with screwless terminals for quick installation. Use alone or combine multiple modules.

Product Type	Product model	Product Description
DI/DO	MR1C-IO5R	5 DI / 5 DO; 1 x RS485 terminal; Supports MR1C expansion
	MR1C-ID16	16 DI; 1 x RS485 terminal; Supports MR1C expansion
	MR1C-QR08	8 DO (Relay); 1 x RS485 terminal; Supports MR1C expansion
	MR1C-QR16	16 DO (Relay); 1 x RS485 terminal; Supports MR1C expansion
	MR1C-QP08	8 DO (Transistor PNP); 1 x RS485 terminal; Supports MR1C expansion
	MR1C-QP16	16 DO (Transistor PNP); 1 x RS485 terminal; Supports MR1C expansion
	MR1C-QP16	16 DO (Transistor PNP); 1 x RS485 terminal; Supports MR1C expansion
AI/AO	MR1C-AQ0830G	8 AO; 11-bit; Acc. $\pm 8\%$ FS; 1 x RS485 terminal; Supports MR1C expansion; Isolated
	MR1C-AQ0830	8 AO; 11-bit; Acc. $\pm 8\%$ FS; 1 x RS485 terminal; Supports MR1C expansion
	MR1C-AE0830G	8 AI; 14-bit; Acc. $\pm 3\%$ FS; Sampling Rate: 100ms; 1 x RS485 terminal; Supports MR1C expansion; Isolated
	MR1C-AE0830	8 AI; 14-bit; Acc. $\pm 3\%$ FS; Sampling Rate: 100ms; 1 x RS485 terminal; Supports MR1C expansion
	MR1C-AE1630G	16 AI; 14-bit; Acc. $\pm 3\%$ FS; Sampling Rate: 100ms; 1 x RS485 terminal; Supports MR1C expansion; Isolated
	MR1C-AE1630	16 AI; 14-bit; Acc. $\pm 3\%$ FS; Sampling Rate: 100ms; 1 x RS485 terminal; Supports MR1C expansion

【Bread Series】

MODBUS RTU distributed I/O modules – Built-in RS485 serial port. Quick & easy parameter setup via baud rate/station ID DIP switches and our self-developed configuration tool. Select models support EMA series expansion modules for cascading to increase DI, DO, AI, AO, and other acquisition points.

Product Type	Product model	Product Description
DI/DO	MR2A-IM24R	14 DI / 10 DO (Relay); 1 x RS485 with 2 interfaces: terminal block and DB9 female; Supports EMA expansion series (DI, DO, AI, AO, etc.)
	MR2A-IM24TP	14 DI / 10 DO (Transistor PNP); 1 x RS485 with 2 interfaces: terminal block and DB9 female; Supports EMA expansion series (DI, DO, AI, AO, etc.)
	MR2A-IO8RA	8 DI / 8 DO (Relay); 6 AI (0~10V / 0~20mA) Acc. $\pm 0.8\%$ FS / 2 AO (0~10V / 0~20mA) Acc. $\pm 0.8\%$ FS; 12-bit; Sampling Rate: 100ms; Supports EMA expansion series (DI, DO, AI, AO, etc.)
	MODBUS-IO8R-A	8 DI / 8 DO; 6 AI (3CH 0~10V, 3CH 0~20mA) / 2 AO (0~10V / 0~20mA); 12-bit; Sampling Rate: 100ms
	MODBUS-IO16R	16 DI / 16 DO; 2 x RS485
	MODBUS-IO16T	16 DI / 16 DO (PNP output)
	MODBUS-I32	32 DI; 2 x RS485

Product Type	Product model	Product Description
AI/AO	MODBUS-O16R	16 DO (Relay); 2 x RS485
	MODBUS-O32T	32 DO (Transistor PNP); 1 x RS485
	MODBUS-8AI	8 AI (0~10V / 0~20mA / 4~20mA); 13-bit; Acc. $\pm 8\%$ FS; Sampling Rate: 100ms
	MODBUS-4AI	4 AI (0~10V / 0~20mA); 13-bit; Acc. $\pm 8\%$ FS; Sampling Rate: 100ms
	MODBUS-8AO	8 AO (8CH 0~10V / 6CH 0~10V + 2CH 0~20mA); 12-bit; Acc. $\pm 8\%$ FS; Selectable via DIP switch: 0~10V or 0~20mA
	MODBUS-4AI4AO	4 AI (4CH 0~10V / 2CH 0~10V + 2CH 0~20mA) / 4 AO (0~10V / 0~20mA); 12-bit; Acc. $\pm 8\%$ FS; Sampling Rate: 100ms; DIP switch for A/D conversion: 0~10V / 0~20mA
	MR2A-AR8-PT100	8 x PT100 Inputs; Resolution: 0.1°C; Range: -50 ~ 300°C
	MR2-AR4G	4 x PT100 Inputs; Resolution: 0.1°C; Range: -50 ~ 300°C; Isolated
	MR2-AN8-NTC10K	8 x NTC (Thermistor) Inputs; Resolution: 0.1°C; Range: -50 ~ 300°C
Mixed I/O	MR2-AT8G	8 x Thermocouple Inputs (Type K, etc.); Resolution: 0.1°C; Range (Type K): -270 ~ 1372°C; Isolated
	MR2-AM6-2AI2AO2PT	2 AI (0~10V / 0~20mA; 16-bit) Acc. $\pm 0.5\%$ FS / 2 AO (0~10V / 0~20mA; 8-bit) Acc. $\pm 8\%$ FS; Sampling Rate: 100ms; 2 x PT100 Inputs; Acc. $\pm 0.5^\circ\text{C}$; Range: -50 ~ 320°C
	MR2-AW4G	4 x Load Cell Inputs (for resistive strain gauge sensors); Specially designed for high-precision scales; Acc. $\leq 0.03\%$ FS; 19-bit; Isolated

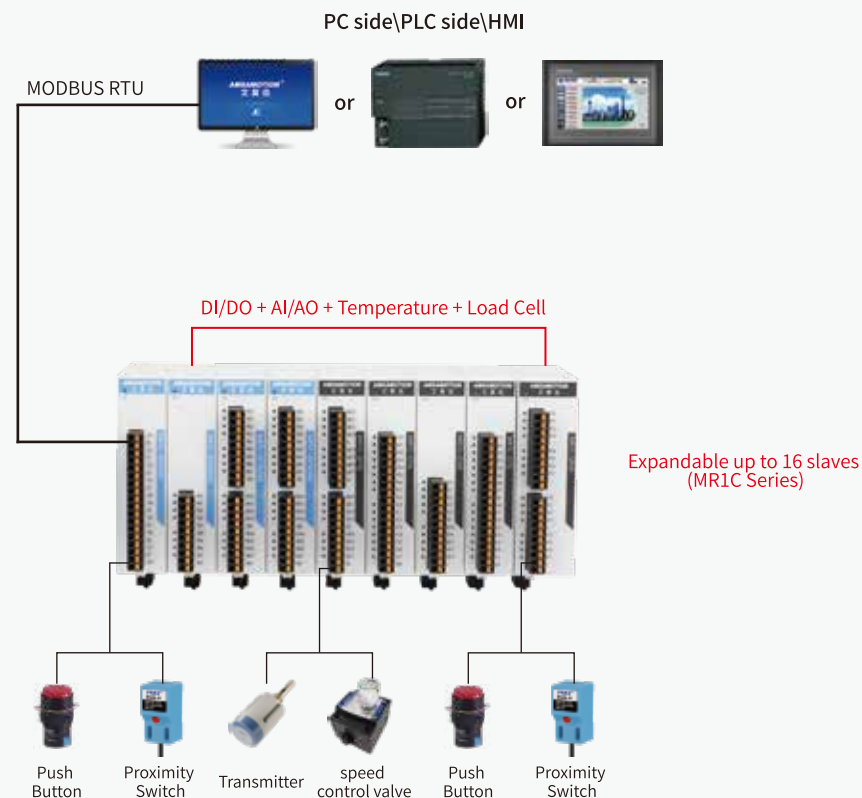
【snowboard series】

Single-board Series – MODBUS RTU remote I/O modules. JY/MR0 series: cost-effective, stable, easy to install. Configure via Amotion Configuration Tool (serial port, address). Button reset to factory defaults. For diverse industrial control applications.

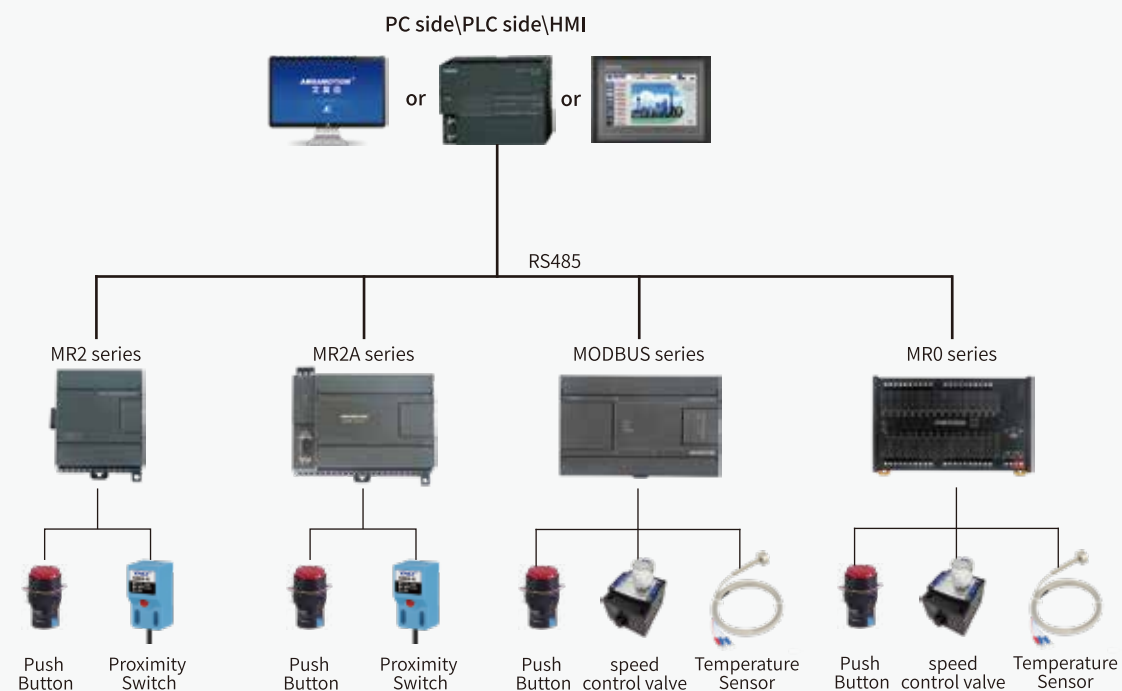
Product Type	Product model	Product Description
(JY) DI/DO	JY-MODBUS-IO8R	8 DI / 8 DO (Relay); 1 x RS485 terminal
	JY-MODBUS-IO16T	16 DI / 16 DO (Transistor PNP); 1 x RS485 terminal
	JY-MODBUS-IO16R	16 DI / 16 DO (Relay); 1 x RS485 terminal
	JY-MODBUS-I8	8 DI; 1 x RS485 terminal
	JY-MODBUS-IO32	32 DI; 1 x RS485 terminal
(JY) AI/AO	JY-MODBUS-2AI	2 AI (0~10V / 0~20mA); 12-bit; Acc. $\pm 8\%$ FS; Sampling Rate: 50ms
	JY-MODBUS-4AI4AO	4 AI (0~10V / 0~20mA; 12-bit; Acc. $\pm 0.5\%$ FS) / 4 AO (2CH 0~10V / 2CH 0~20mA; CH0,1: 9-bit, Acc. $\pm 0.8\%$ FS; CH2,3: 12-bit, Acc. $\pm 0.5\%$ FS); Sampling Rate: 4ms
	JY-MODBUS-8AO	8 AO (8CH 0~10V / 6CH 0~10V + 2CH 0~20mA); 12-bit; Acc. $\pm 0.5\%$ FS
	JY-MODBUS-8AI	8 AI (0~10V / 0~20mA); 14-bit; Acc. $\pm 5\%$ FS; Sampling Rate: 200ms
(MR0) DI/DO	MR0-IDT05	5 DI
	MR0-IDT14	14 DI
	MR0-IDT24	24 DI
	MR0-IDT32	32 DI
	MR0-IDT48	48 DI
	MR0-IOR04	2 DI / 2 DO (Relay 5A)
	MR0-IOR08	4 DI / 4 DO (Relay 5A)
	MR0-QDR0205	2 DO (Relay 5A)
	MR0-QDR0410	4 DO (Relay 10A)
	MR0-QDR0805	8 DO (Relay 5A)
	MR0-QDR0810	8 DO (Relay 10A)
	MR0-QDR1605	16 DO (Relay 5A)
	MR0-QDR1610	16 DO (Relay 10A)
	MR0-QDR3205	32 DO (Relay 5A)
	MR0-QDR4805	48 DO (Relay 5A)
(MR0) Mixed I/O	MR0-IOM8882	8 DI / 8 DO (Relay 5A); 8 AI (0~10V / 0~20mA; Sampling Rate: 50ms) / 2 AO (0~10V / 0~20mA); 12-bit; Acc. $\pm 8\%$ FS

▲ Application scenarios

■ BM book series connection diagram



■ Bread/Single Board Series Connection Diagram



▶ EtherCAT bus

▲ Product Overview

High-speed real-time EtherCAT bus communication for industrial data acquisition and device control. Supports distributed deployment. Leveraging EtherCAT technology for stable, high-speed transmission – simple wiring with Cat5e cables. Fast response, strong noise immunity, and flexible expansion. Compatible with mainstream PLCs and programming software to meet high-precision control requirements.

Full product lineup: pulse positioning, encoder counting, DI/DO, AI/AO, temperature, load cell, and more. Compact design, standard DIN-rail mounting, and quick wiring for efficient on-site deployment.

Pulse positioning module offers precise motion control for servo/stepper motors, while the encoder counting module provides reliable position and speed feedback.



▲ Product features

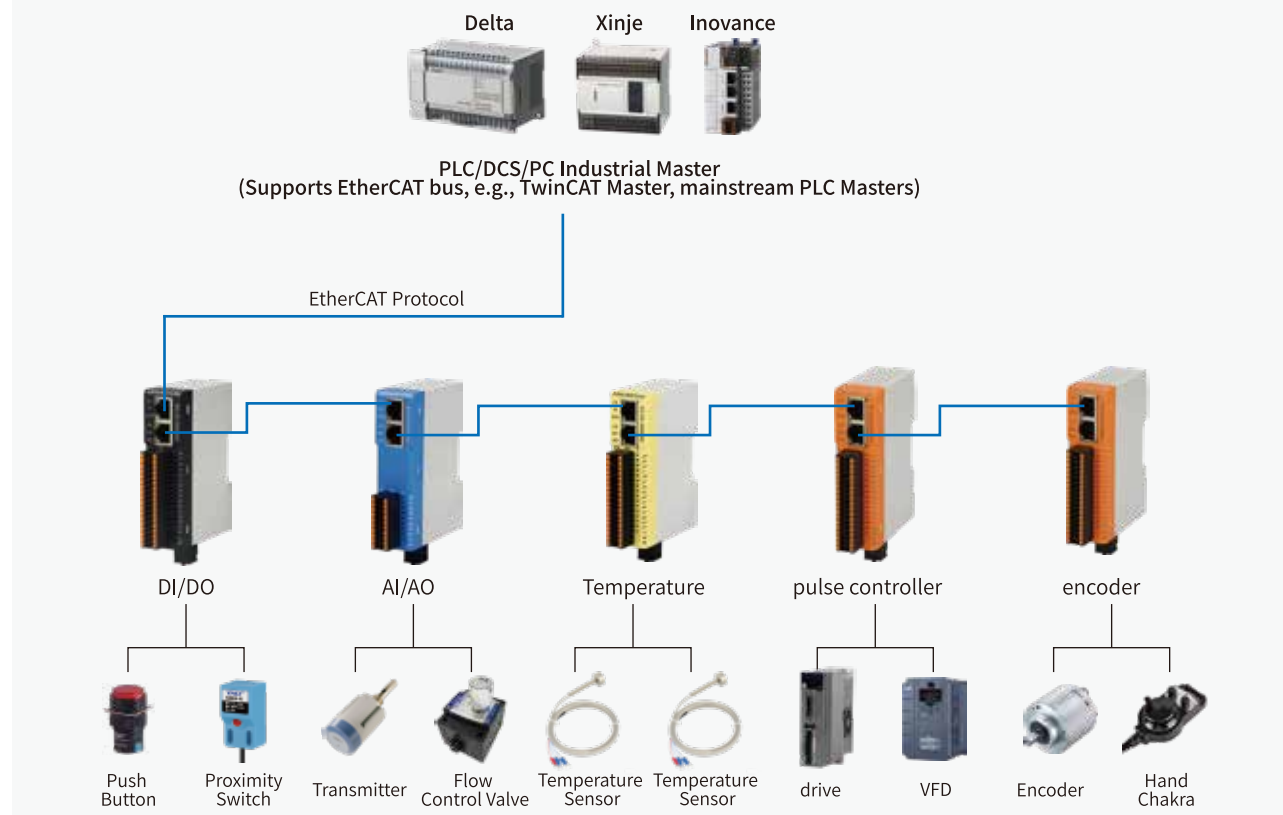
- ① Standard EtherCAT protocol – real-time, stable, reliable;
- ② Rich I/O types: DI/DO, AI/AO, temperature, load cell, encoder, pulse positioning;
- ③ High-speed real-time Ethernet – ms-level control response;
- ④ Dual RJ45 ports for cascading – flexible topology;
- ⑤ PC software for configuration & debugging – seamless PLC integration;
- ⑥ Pulse positioning – high-frequency output for precise servo/stepper control;
- ⑦ Encoder counting – high-speed acquisition for accurate position/speed feedback;
- ⑧ Removable terminals – simple crimp connection for easy maintenance;
- ⑨ DIN 35mm rail mounting – spring-type quick wiring;
- ⑩ Compact size – saves installation space;
- ⑪ IP20, optocoupler isolation, -20~70°C operation – robust for industrial environments.

【book series】

Product Type	Product model	Product Description
DI/DO	EC3A-IO1631	16 DI (PNP/NPN) / 16 DO (Transistor NPN)
	EC3A-IO1632	16 DI (PNP/NPN) / 16 DO (Transistor PNP)
	EC3A-ID3230	32 DI (PNP/NPN)
	EC3A-OD3201	32 DO (Transistor NPN)
	EC3A-OD3202	32 DO (Transistor PNP)
AI/AO	EC3A-AE0830	8 AI (0~10V / 0~20mA); 14-bit; Acc. ±0.2%FS; Sampling Rate: 100ms
	EC3A-AQ0810	8 AO (0~10V); 12-bit; Acc. ±0.3%FS
	EC3A-AQ0820	8 AO (0~20mA); 12-bit; Acc. ±0.5%FS
Temperature	EC3A-AR0893	8 channels; Supports full range of RTD sensors; Resolution: 0.01°C; Accuracy: PT100/PT1000: ±0.35°C, PT50/PT200/PT500/CU50/CU100: ±0.50°C; Sampling Rate: 6ms/ch
Pulse Controller	EC3A-PS0200	EtherCAT bus, 2-channel pulse control; Differential output; Position & speed control modes; 16 DI / 4 DO
Encoder	EC3A-EN0200	EtherCAT bus, 2-channel encoder; 5V differential input or 24V single-ended input; 6 DI / 6 DO

▲ Application scenarios

■ Book series connection diagram



► PROFINET bus

▲ Product Overview

Supports PROFINET protocol for industrial field data acquisition and device control. Enables distributed deployment. Leveraging PROFINET real-time Ethernet technology for high-speed communication. Supports flexible expansion of various module types. Simple wiring with Cat5e cables.



▲ Product features

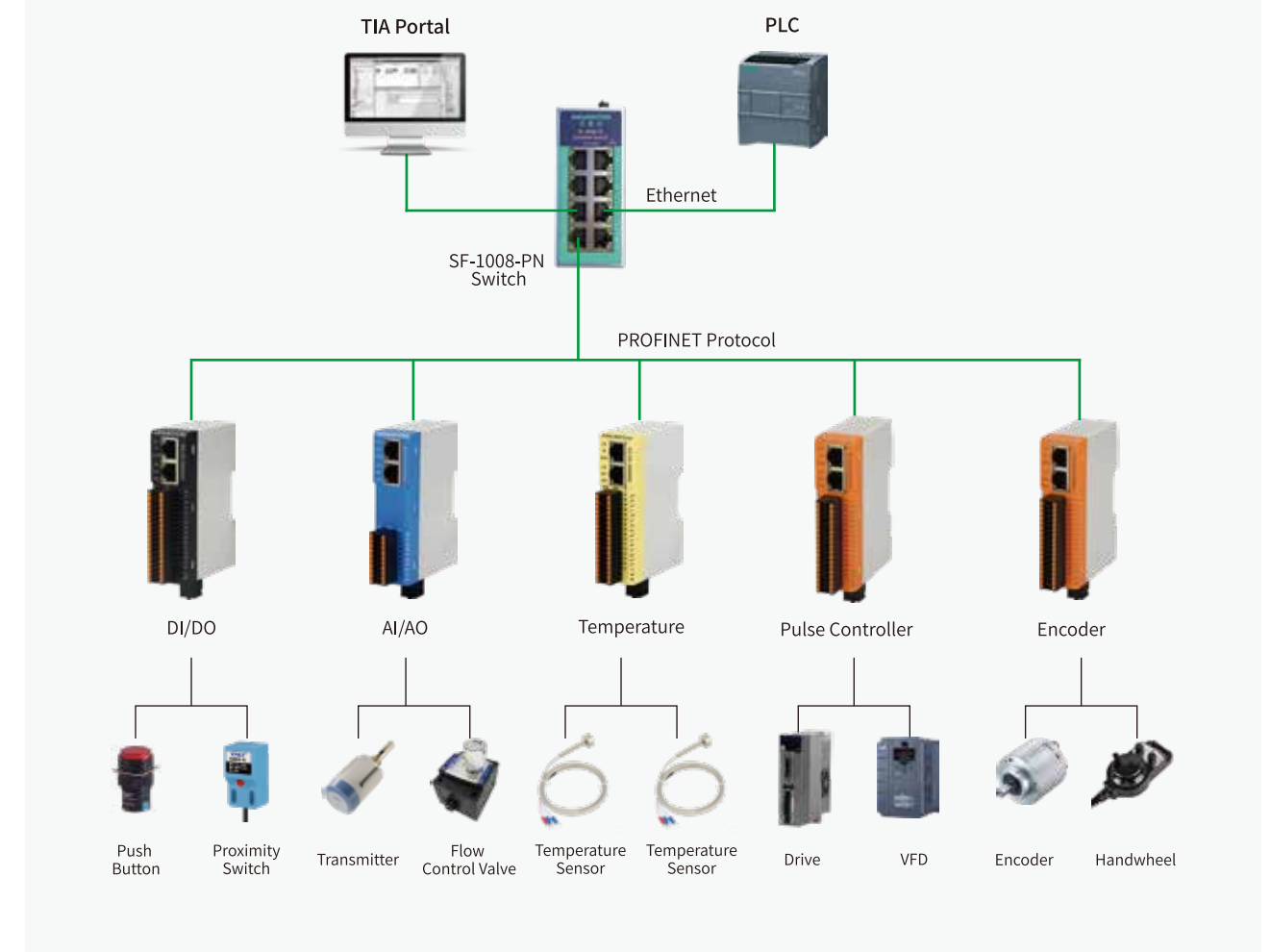
- ① Standard PROFINET protocol communication – seamless compatibility with Siemens PLCs and other PROFINET master devices for industrial networking;
- ② Equipped with 100M industrial Ethernet ports, dual ports with built-in switch function – simplifies wiring architecture and enhances network expansion flexibility;
- ③ Rich module types and complete I/O coverage – including DI/DO, AI/AO, temperature, load cell, encoder, and pulse controller modules, meeting diverse data acquisition and control requirements;
- ④ Removable terminal block design – simple manual crimping for cable connection, enabling efficient maintenance and device replacement;
- ⑤ Compact size and robust design – saves installation space;
- ⑥ IP20 protection rating with reliable anti-interference performance – suitable for demanding industrial environments.

【book series】

Product Type	Product Model	Product Description
DI/DO	PN3A-IO1631	16 DI (PNP/NPN) / 16 DO (Transistor NPN)
	PN3A-IO1632	16 DI (PNP/NPN) / 16 DO (Transistor PNP)
	PN3A-ID1630	16 DI (PNP/NPN)
	PN3A-ID3230	32 DI (PNP/NPN)
	PN3A-OD3201	32 DO (Transistor NPN)
	PN3A-OD3202	32 DO (Transistor PNP)
AI/AO	PN3A-AE0830	8 AI (0~10V / 0~20mA); 14-bit; Acc. $\pm 0.2\%FS$; Sampling Rate: 100ms
	PN3A-AE1630	16 AI (0~10V / 0~20mA); 14-bit; Acc. $\pm 0.2\%FS$; Sampling Rate: 100ms
	PN3A-AQ0810	8 AO (0~10V); Single-ended; 12-bit; Acc. $\pm 0.5\%FS$
	PN3A-AQ0820	8 AO (0~20mA); Single-ended; 12-bit; Acc. $\pm 0.5\%FS$
Temperature	PN3A-AT0892	8 channels; Supports full range of thermocouples; Resolution: 0.01°C; Accuracy: $\pm 2^\circ C$; Sampling Rate: ~200ms (filter=0) / ~2s (filter=10)
	PN3A-AR0893	8 channels; Supports full range of RTD sensors; Resolution: 0.01°C; Sampling Rate: 6ms/ch; Accuracy: PT100/PT1000: $\pm 0.35^\circ C$, PT50/PT200/PT500/CU50/CU100: $\pm 0.50^\circ C$
Load Cell	PN3A-AW0415	4 channels; Supports full range of strain gauge sensors; Combined accuracy: $\leq 0.03\%FS$; Relative error: $\leq 0.08\%$
Pulse Controller	PN3A-PS0200	PROFINET BUS, 2-CHANNEL PULSE CONTROL; DIFFERENTIAL OUTPUT; POSITION & SPEED CONTROL MODES; 16 DI / 4 DO
Encoder	PN3A-EN0200	PROFINET BUS, 2-CHANNEL ENCODER; 5V DIFFERENTIAL INPUT OR 24V SINGLE-ENDED INPUT; 6 DI / 6 DO

▲ Application scenarios

■ Book Series Connection Diagram



▶ Profibus-DP bus

▲ Product Overview

Supports Profibus-DP protocol. Serves as a slave module to a Profibus-DP master. Features built-in expansion port for connecting our EMA series modules (DI/DO, AI/AO, temperature, load cell, and more) to increase I/O points.

▲ Product features

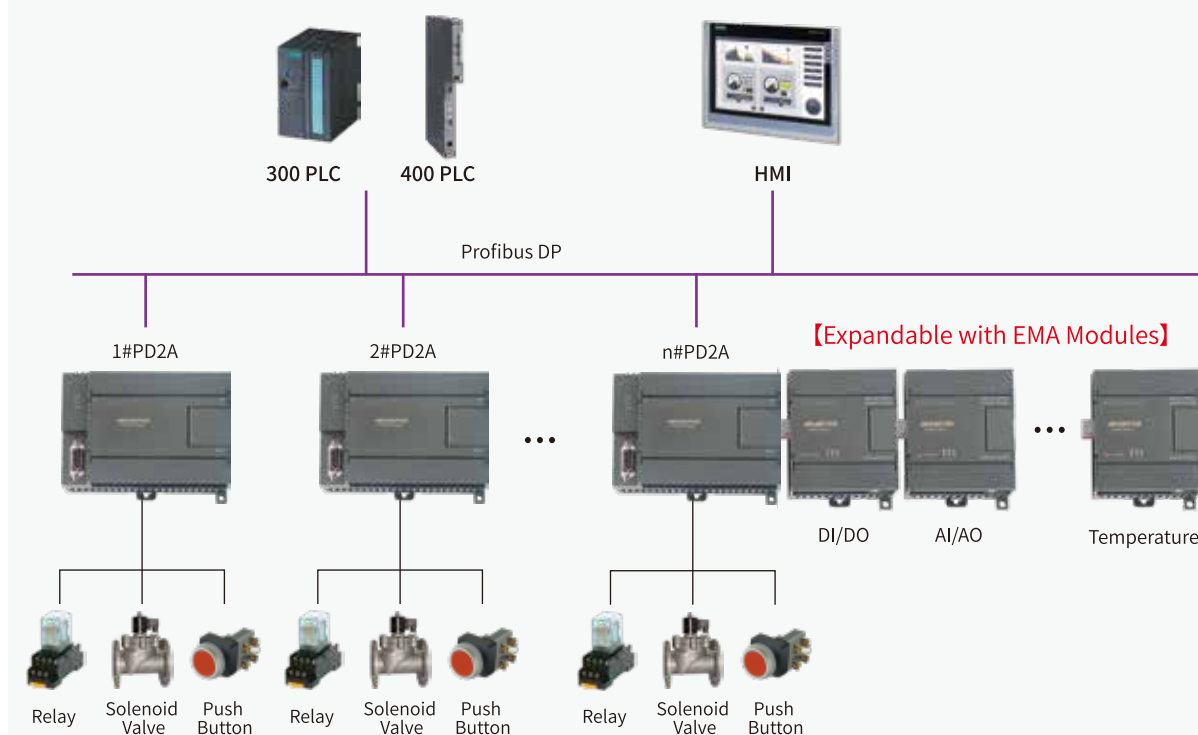
- ① Profibus-DP baud rate auto-adaptation – supports up to 1.5M;
- ② Strong compatibility – standard GSD file for easy configuration;
- ③ Supports EMA series expansion modules – flexible selection and easy expansion;
- ④ Rotary coding switch for station address setting;
- ⑤ ESD protection: air discharge $\pm 8\text{kV}$ (Level 3); contact discharge $\pm 4\text{kV}$ (Level 2); EFT protection: $\pm 2\text{kV}$ (Level 3).

【Bread Series】

Product Type	Product Model	Product Description
DI/DO	PD2A-IM24R	14 DI / 10 DO (Relay)
	PD2A-IM24TP	14 DI / 10 DO (Transistor PNP)

▲ Application scenarios

■ Bread Series Connection Diagram



▶ CANopen bus

▲ Product Overview

Supports CANopen protocol and serves as a slave module to a CANopen master. The built-in expansion port supports EMB series modules (DI/DO, AI/AO, temperature, load cell, and more) to increase I/O points.

▲ Product features

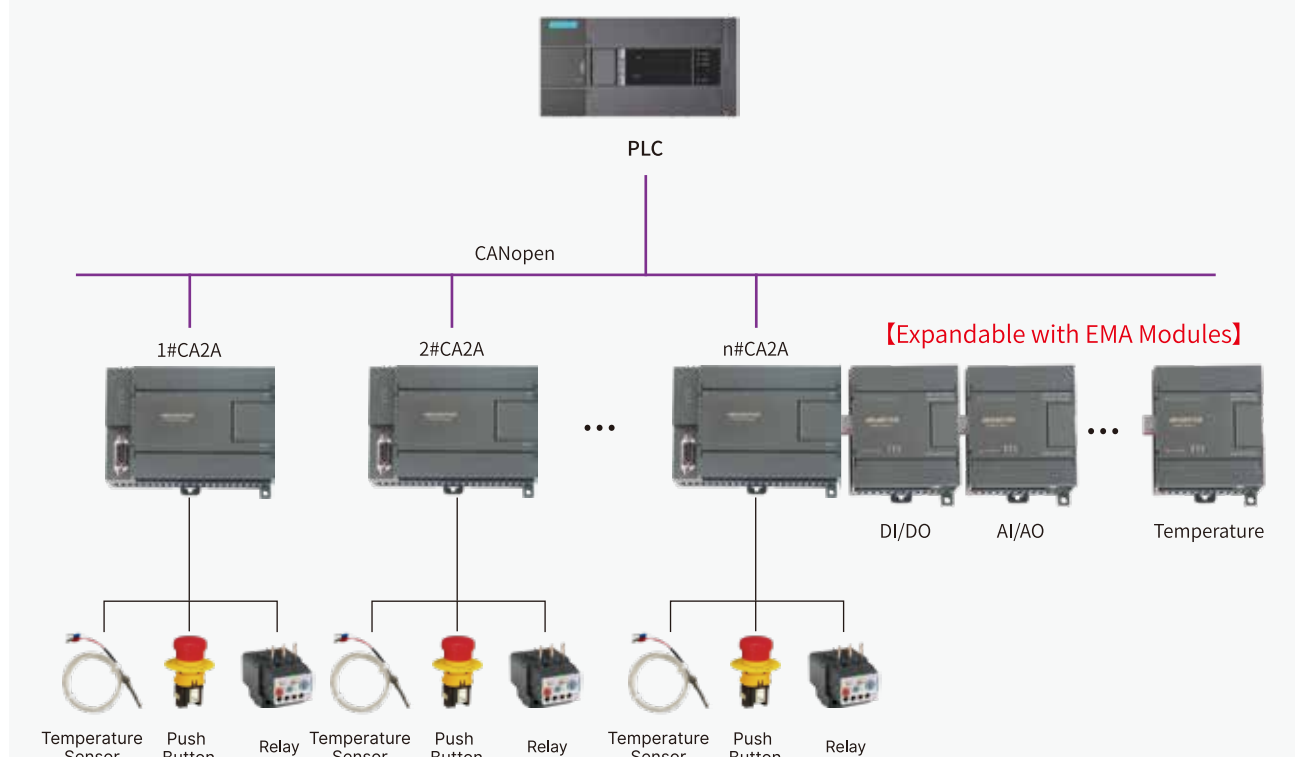
- ① Supports EMB series expansion modules – flexible selection and easy expansion;
- ② Supports firmware upgrade;
- ③ Power circuit features reverse polarity protection for circuit safety;
- ④ ESD protection: air discharge $\pm 8\text{kV}$ (Level 3); contact discharge $\pm 4\text{kV}$ (Level 2); EFT protection: $\pm 2\text{kV}$ (Level 3).

【Bread Series】

Product Type	Product Model	Product Description
DI/DO	CA2A-IM24R	14 DI / 10 DO (Relay)
	CA2A-IM24TP	14 DI / 10 DO (Transistor PNP)

▲ Application scenarios

■ Bread Series Connection Diagram



► EtherNet/IP bus

▲ Product Overview

EtherNet/IP Remote I/O Bus Module – Serves as a slave module for EtherNet/IP master protocols. The built-in expansion port supports EMB series modules (DI/DO, AI/AO, temperature, load cell, and more) to increase I/O points.

▲ Product features

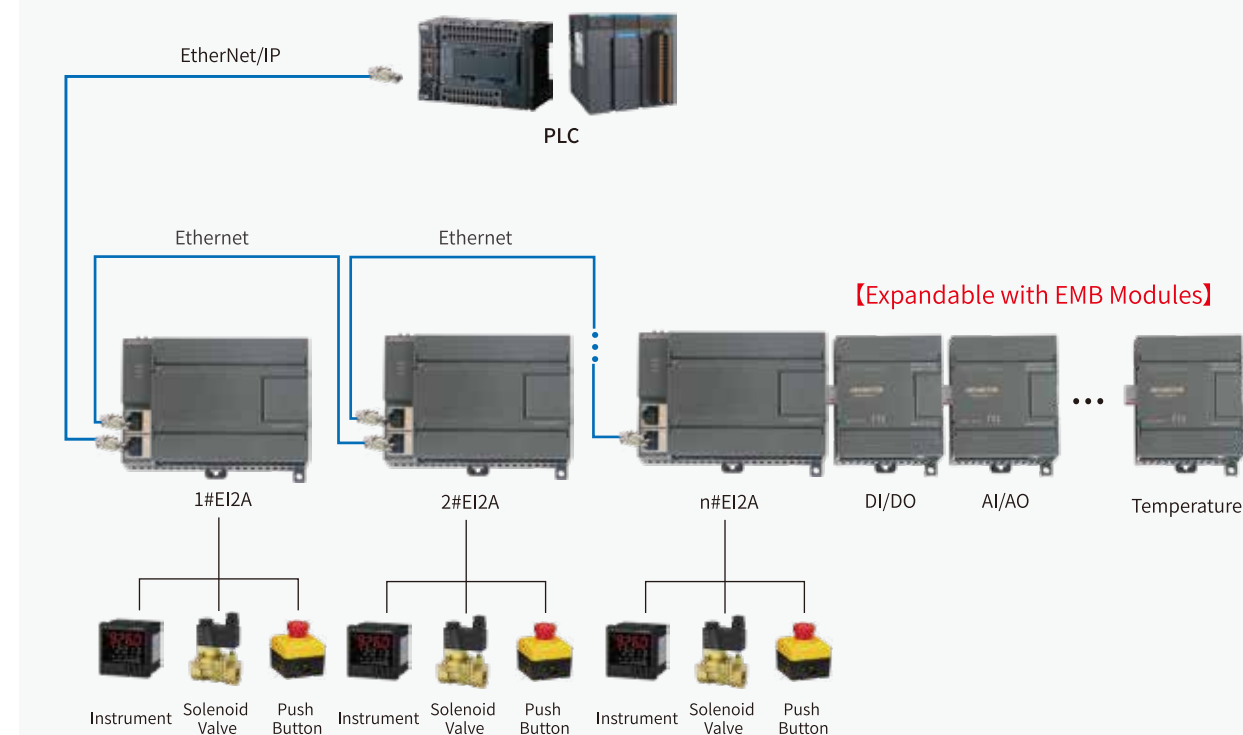
- ① Standard EtherNet/IP protocol communication – easy networking;
- ② Dual Ethernet ports with built-in switch function;
- ③ Supports EMB series expansion modules – flexible selection and easy expansion;
- ④ ESD protection: air discharge $\pm 8\text{kV}$ (Level 3); contact discharge $\pm 4\text{kV}$ (Level 2); EFT protection: $\pm 2\text{kV}$ (Level 3).

【Bread Series】

Product Type	Product Model	Product Description
DI/DO	EI2A-IM24R	14 DI / 10 DO (Relay)
	EI2A-IM24TP	14 DI / 10 DO (Transistor PNP)

▲ Application scenarios

■ Bread Series Connection Diagram



► CC-Link bus

▲ Product Overview

CC-Link Remote I/O Bus Module – Serves as a CC-Link general remote I/O slave or remote device station. The built-in expansion port supports EMB series modules (DI/DO, AI/AO, temperature, load cell, and more) to increase I/O points.

▲ Product features

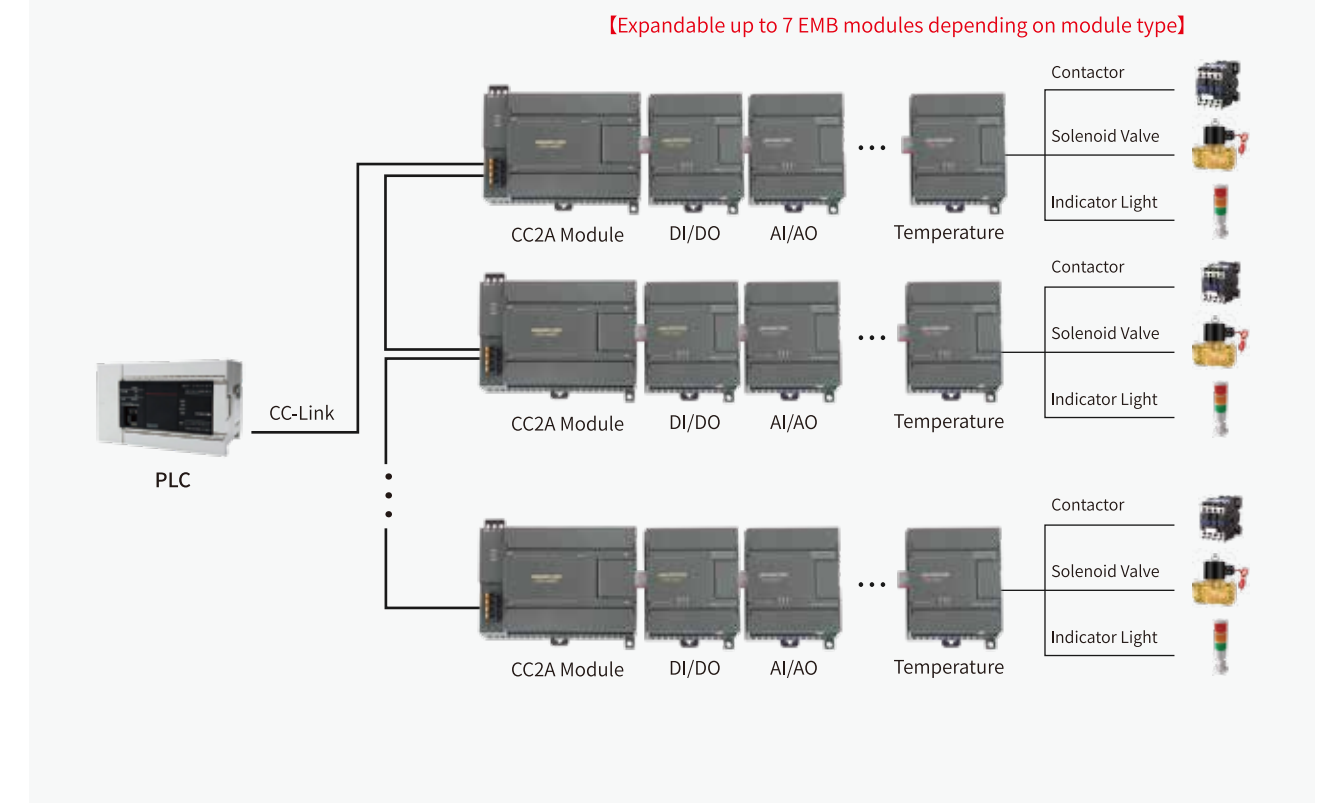
- ① Standard CC-Link protocol communication – easy networking;
- ② 14 opto-isolated DI channels and 10 DO channels;
- ③ Supports EMB series expansion modules – flexible selection and easy expansion;
- ④ Supports firmware upgrade;
- ⑤ ESD protection: air discharge $\pm 8\text{kV}$ (Level 3); contact discharge $\pm 4\text{kV}$ (Level 2); EFT protection: $\pm 2\text{kV}$ (Level 3).

【Bread Series】

Product Type	Product Model	Product Description
DI/DO	CCA2-IM24R	14 DI / 10 DO (Relay)
	CCA2-IM24TN	14 DI / 10 DO (Transistor PNP)

▲ Application scenarios

■ Bread Series Connection Diagram



HMI and All-in-One Family

HMI and Industrial Integrated Units – The core interactive and control terminals for industrial automation and smart manufacturing. HMIs manage interaction and monitoring; Integrated Units provide a complete display/control solution. Together, they act as the "operating brain" for equipment and production lines, widely deployed in automation, manufacturing, energy, transportation, and more.



► All-in-One Series

▲ Product Overview

AMSAMOTION PLC-HMI Integrated Unit combines touch-screen HMI and PLC control in one device – two functions, one unit. Supports embedded mounting. Available in 4.3-inch, 7-inch, and 10-inch models. Compatible programming software and instructions enable direct configuration programming. The HS series is compatible with 200, the HSE series with SMART, and the HM series with 3U. Customizable 4G and Wi-Fi functions available. Provides real-time data display, operating status, and alarm information, facilitating data analysis and fault diagnosis.

▲ Product features

- ① High-speed operation – High-performance industrial processor, optional 4G and Wi-Fi functionality;
- ② Supports 6 single-phase high-speed counters – 4 channels at 100K/200K;
- ③ 2/4 high-speed pulse outputs – supports 100K;
- ④ Compatible with original programming software and instructions;
- ⑤ Diverse DI/DO and AI/AO channel options (AI supports voltage/current switching via DIP switch).

[All-in-One Series]

Product Series	Product Model	HMI Size	Product Description
HSE Series (SMART)	AMX-HSE4A-16MR	4.3"	8 DI / 8 DO (Relay); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 105ms; 12-bit; 2 x PT100 inputs; 1 x USB port; 1 x PLC Ethernet port; 2 x RS485
	AMX-HSE4A-16MT	4.3"	8 DI / 8 DO (Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 105ms; 12-bit; 2 x PT100 inputs; 1 x USB port; 1 x PLC Ethernet port; 2 x RS485
	AMX-HSE4D-16MR	4.3"	8 DI / 8 DO (Relay); 2 AO (0~10V / 0~20mA); 12-bit; 1 x USB port; 1 x PLC Ethernet port; 2 x RS485
	AMX-HSE4D-16MT	4.3"	8 DI / 8 DO (Transistor); 2 AO (0~10V / 0~20mA); 12-bit; 1 x USB port; 1 x PLC Ethernet port; 2 x RS485
	AMX-HSE7A-16MR	7"	8 DI / 8 DO (Relay); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 105ms; 12-bit; 2 x PT100; 2 x RS485; 1 x PLC Ethernet port; 1 x HMI Ethernet port; 1 x USB
	AMX-HSE7A-16MRT	7"	8 DI / 8 DO (4 x Relay + 4 x Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 105ms; 12-bit; 2 x PT100; 2 x RS485; 1 x PLC Ethernet port; 1 x HMI Ethernet port; 1 x USB
	AMX-HSE7A-32MR	7"	16 DI / 16 DO (Relay); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 105ms; 12-bit; 2 x PT100; 2 x RS485; 1 x PLC Ethernet port; 1 x HMI Ethernet port; 1 x USB
	AMX-HSE7A-32MRG(W)	7"	16 DI / 16 DO (Relay); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 105ms; 12-bit; 2 x PT100; 2 x RS485; 1 x PLC Ethernet port; 1 x HMI Ethernet port; 1 x USB; Supports 4G/WiFi communication
	AMX-HSE7A-32MRT	7"	16 DI / 16 DO (12 x Relay + 4 x Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 105ms; 12-bit; 2 x PT100; 2 x RS485; 1 x PLC Ethernet port; 1 x HMI Ethernet port; 1 x USB
	AMX-HSE7A-32MRTG(W)	7"	16 DI / 16 DO (12 x Relay + 4 x Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 105ms; 12-bit; 2 x PT100; 2 x RS485; 1 x PLC Ethernet port; 1 x HMI Ethernet port; 1 x USB; Supports 4G/WiFi communication
	AMX-HSE7A-32MT	7"	16 DI / 16 DO (Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 105ms; 12-bit; 2 x PT100; 2 x RS485; 1 x PLC Ethernet port; 1 x HMI Ethernet port; 1 x USB
	AMX-HSE10A-32MRT	10"	16 DI / 16 DO (12 x Relay + 4 x Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 105ms; 12-bit; 2 x PT100; 2 x RS485; 1 x HMI Ethernet port; 1 x PLC Ethernet port; 1 x USB
	AMX-HSE10A-32MR	10"	16 DI / 16 DO (Relay); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 105ms; 12-bit; 2 x PT100; 2 x RS485; 1 x HMI Ethernet port; 1 x PLC Ethernet port; 1 x USB



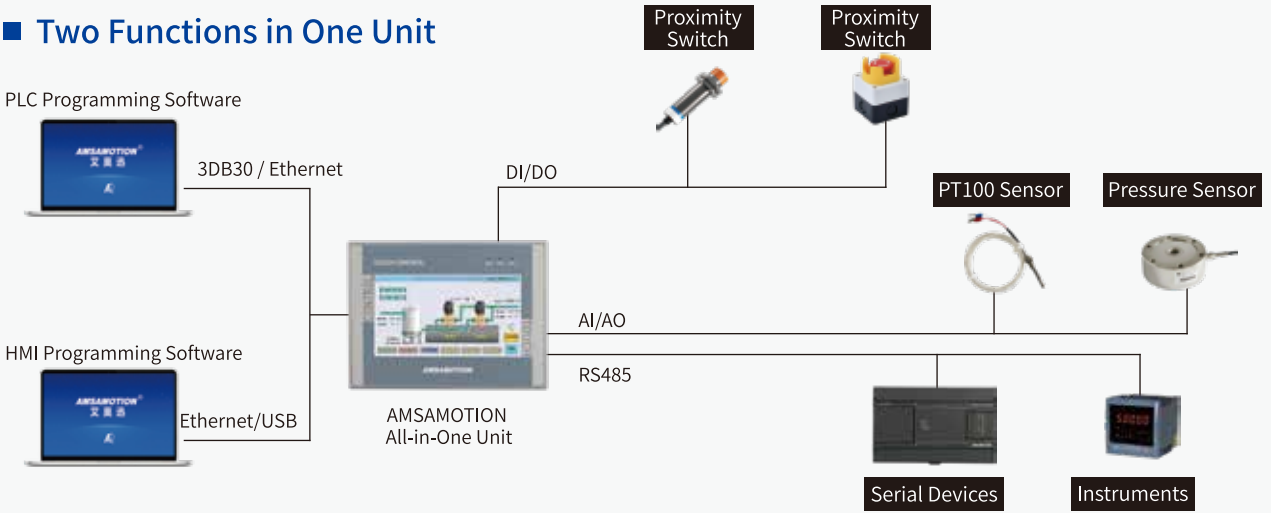
Product Series	Product Model	HMI Size	Product Description
HS Series (200)	AMX-HS4A-16MR	4.3"	8 DI / 8 DO (Relay); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 70ms; 12-bit; 2 x PT100; 1 x USB port; 2 x RS485
	AMX-HS4A-16MT	4.3"	8 DI / 8 DO (Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 70ms; 12-bit; 2 x PT100; 1 x USB port; 2 x RS485
	AMX-HS4D-16MR	4.3"	8 DI / 8 DO (Relay); 2 AO (0~10V / 0~20mA); 12-bit; 1 x USB port; 2 x RS485
	AMX-HS4D-16MT	4.3"	8 DI / 8 DO (Transistor); 2 AO (0~10V / 0~20mA); 12-bit; 1 x USB port; 2 x RS485
	AMX-HS7-46MR	7"	24 DI / 22 DO (Relay); 2 x RS485; 1 x HMI Ethernet port; 1 x USB
	AMX-HS7-46MRT	7"	24 DI / 22 DO (18 x Relay + 4 x Transistor); 2 x RS485; 1 x HMI Ethernet port; 1 x USB
	AMX-HS7A-16MR	7"	8 DI / 8 DO (Relay); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 70ms; 12-bit; 2 x PT100; 2 x RS485; 1 x HMI Ethernet port; 1 x USB
	AMX-HS7A-16MRT	7"	8 DI / 8 DO (4 x Relay + 4 x Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 70ms; 12-bit; 2 x PT100; 2 x RS485; 1 x HMI Ethernet port; 1 x USB
	AMX-HS7A-32MR	7"	16 DI / 16 DO (Relay); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 70ms; 12-bit; 2 x PT100; 2 x RS485; 1 x HMI Ethernet port; 1 x USB
	AMX-HS7A-3 2MRG(W)	7"	16 DI / 16 DO (Relay); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 70ms; 12-bit; 2 x PT100; 2 x RS485; 1 x HMI Ethernet port; 1 x USB; Supports 4G/WiFi communication
	AMX-HS7A-32MRT	7"	16 DI / 16 DO (12 x Relay + 4 x Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 70ms; 12-bit; 2 x PT100; 2 x RS485; 1 x HMI Ethernet port; 1 x USB
	AMX-HS7A-32M RT(W)	7"	16 DI / 16 DO (12 x Relay + 4 x Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 70ms; 12-bit; 2 x PT100; 2 x RS485; 1 x HMI Ethernet port; 1 x USB; Supports 4G/WiFi communication
	AMX-HS7A-32MT	7"	16 DI / 16 DO (Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 70ms; 12-bit; 2 x PT100; 2 x RS485; 1 x HMI Ethernet port; 1 x USB
HM Series (3U)	AMX-HM4A-16MT	4.3"	8 DI / 8 DO (Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 400ms; 12-bit; 2 x PT100; 1 x USB port; 2 x RS485
	AMX-HM4A-16MR	4.3"	8 DI / 8 DO (Relay); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 400ms; 12-bit; 2 x PT100; 1 x USB port; 2 x RS485
	AMX-HM4D-16MT	4.3"	8 DI / 8 DO (Transistor); 2 AO (0~10V / 0~20mA); Sampling Rate: 400ms; 12-bit; 1 x USB port; 2 x RS485
	AMX-HM4D-16MR	4.3"	8 DI / 8 DO (Relay); 2 AO (0~10V / 0~20mA); Sampling Rate: 400ms; 12-bit; 1 x USB port; 2 x RS485
	AMX-HM7-46MR	7"	24 DI / 22 DO (Relay); 1 x RS232; 1 x RS485; 1 x HMI Ethernet port; 1 x USB
	AMX-HM7-46MRT	7"	24 DI / 22 DO (18 x Relay + 4 x Transistor); 1 x RS232; 1 x RS485; 1 x HMI Ethernet port; 1 x USB
	AMX-HM7A-16MR	7"	8 DI / 8 DO (Relay); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 400ms; 12-bit; 2 x PT100; 1 x RS485; 1 x RS232; 1 x HMI Ethernet port; 1 x USB
	AMX-HM7A-16MRT	7"	8 DI / 8 DO (4 x Relay + 4 x Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 400ms; 12-bit; 2 x PT100; 1 x RS485; 1 x RS232; 1 x HMI Ethernet port; 1 x USB
	AMX-HM7A-32MR	7"	16 DI / 16 DO (Relay); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 400ms; 12-bit; 2 x PT100; 1 x RS485; 1 x RS232; 1 x HMI Ethernet port; 1 x USB
	AMX-HM7A-32 MRG (W)	7"	16 DI / 16 DO (Relay); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 400ms; 12-bit; 2 x PT100; 1 x RS485; 1 x RS232; 1 x HMI Ethernet port; 1 x USB; Supports 4G/WiFi communication
	AMX-HM7A-32MRT	7"	16 DI / 16 DO (12 x Relay + 4 x Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 400ms; 12-bit; 2 x PT100; 1 x RS485; 1 x RS232; 1 x HMI Ethernet port; 1 x USB
	AMX-HM7A-32MR TG (W)	7"	16 DI / 16 DO (12 x Relay + 4 x Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 400ms; 12-bit; 2 x PT100; 1 x RS485; 1 x RS232; 1 x HMI Ethernet port; 1 x USB; Supports 4G/WiFi communication
	AMX-HM7A-32MT	7"	16 DI / 16 DO (Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 400ms; 12-bit; 2 x PT100; 1 x RS485; 1 x RS232; 1 x HMI Ethernet port; 1 x USB
	AMX-HM10A-32MRT	10"	16 DI / 16 DO (12 x Relay + 4 x Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 400ms; 12-bit; 2 x PT100; 1 x RS485; 1 x RS232; 1 x HMI Ethernet port; 1 x USB
	AMX-HM10A-32 MRTG (W)	10"	16 DI / 16 DO (12 x Relay + 4 x Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 400ms; 12-bit; 2 x PT100; 1 x RS485; 1 x RS232; 1 x HMI Ethernet port; 1 x USB; Supports 4G/WiFi communication
	AMX-HM10A-32MR	10"	16 DI / 16 DO (Relay); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 400ms; 12-bit; 2 x PT100; 1 x RS485; 1 x RS232; 1 x HMI Ethernet port; 1 x USB
	AMX-HM10A-32MRG (W)	10"	16 DI / 16 DO (Relay); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Sampling Rate: 400ms; 12-bit; 2 x PT100; 1 x RS485; 1 x RS232; 1 x HMI Ethernet port; 1 x USB; Supports 4G/WiFi communication

▲ Product Specifications

HMI Size	Overall Dimension	Cutout Dimension	Backlight Lifetime	Resolution
4.3"	130*104*40mm	120*94mm	>20,000 h	480*272
7"	212*157*40mm	192*138mm	>30,000 h	800*480
10"	276*218*40mm	259*201mm	>30,000 h	1024*600

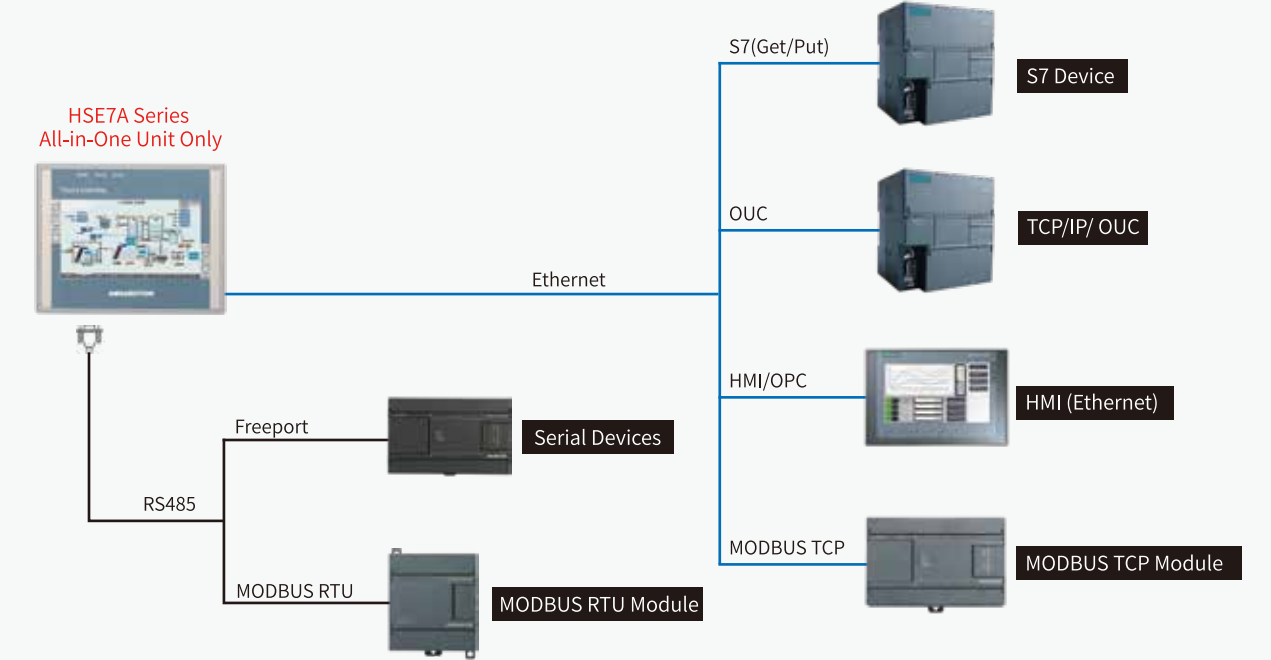
▲ Application scenarios

■ Two Functions in One Unit



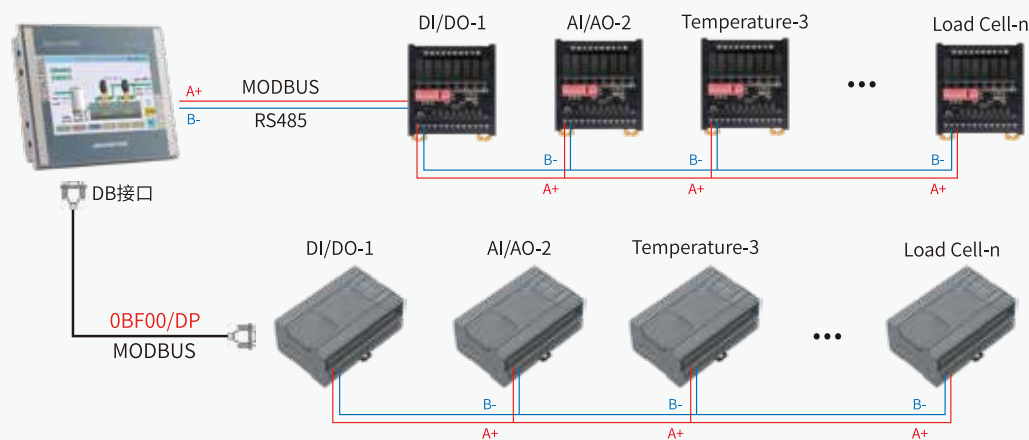
Note: AMX-HS series and AMX-HM series All-in-One units can communicate with programming software via RS232/RS485.

■ Multi-Protocol Communication All-in-One Solution



Note: S7 TCP supports up to 6 connections. OUC supports up to 6 active connections and 6 passive connections (shared connection resources with GET/PUT, MODBUS TCP, etc.).

■ All-in-One Supports External Expansion Modules



► HMI Series

▲ Product Overview

AMSAMOTION HMIs are compatible with mainstream PLCs and MODBUS devices, featuring resistive touch screens as standard. Available in 4.3", 7", 10.2", and 15.6" models, with customizable 4G and WiFi functions. The supporting configuration software is easy to use, enabling device control, parameter setting, real-time data monitoring, and status checks directly via the HMI. Stable and reliable with strong anti-interference capability, suitable for various industrial environments.



▲ Product features

- ① Resistive touch panel;
- ② Rich communication interfaces (RS232, RS485, RS422, Ethernet);
- ③ High-speed processor: ARM Cortex-A7 dual-core 1.2GHz or ARM Cortex-A53 quad-core 1.5GHz;
- ④ Supports data sampling export via USB drive;
- ⑤ Supports multiple remote networking methods (4G, WiFi, fixed network) and remote access functions (mobile phone remote screen mirroring, web-based large screen monitoring);
- ⑥ Supports remote penetration for PLC programs, CODESYS tag communication, and advanced MQTT protocol.

[HMI Series]

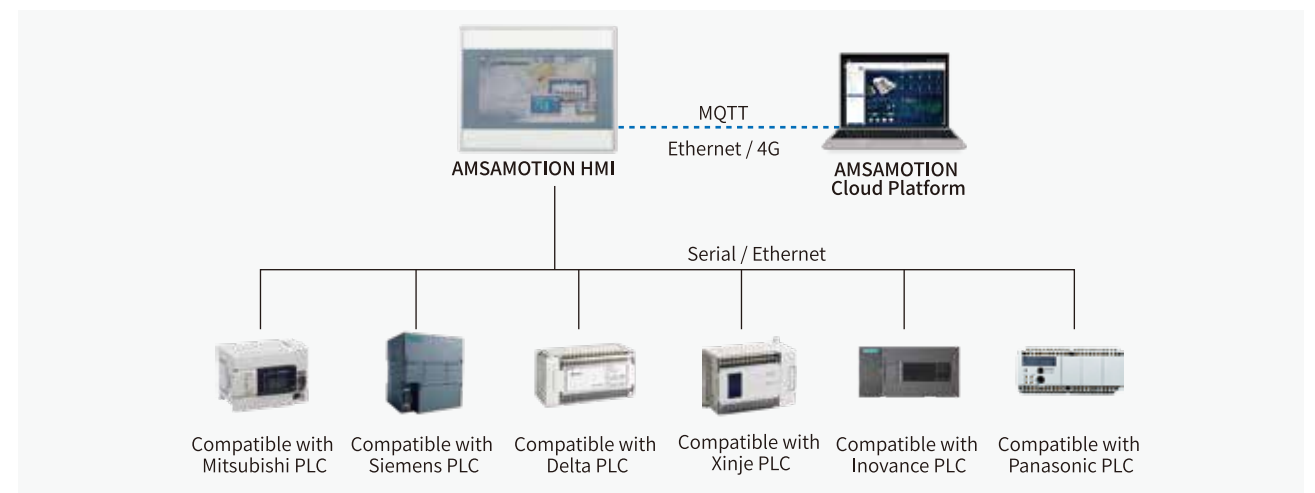
Product Type	Product Model	HMI Size	Product Description
Resistive Touch (Metal Housing)	AMX-HR070IE	7"	7" TFT resistive touch, 1024x600 resolution, RS232/RS485/RS422/Ethernet/USB2.0 (Cutout: 192x138mm)
	AMX-HR102IE	10.2"	10.2" TFT resistive touch, 1024x600 resolution, RS232/RS485/RS422/Ethernet/USB2.0 (Cutout: 260x202mm)
	AMX-HR1506IE	15.6"	15.6" TFT resistive touch, 1920x1080 resolution, RS232/RS485/RS422/Ethernet/USB2.0 (Cutout: 384x247mm)
Resistive Touch (ABS Housing)	AMX-MT043C	4.3"	4.3" TFT resistive touch, 480x272 resolution, RS232/RS485/RS422/USB2.0 (Cutout: 120x94mm)
	AMX-MT043IE	4.3"	4.3" TFT resistive touch, 480x272 resolution, RS232/RS485/RS422/Ethernet/USB2.0 (Cutout: 120x94mm)
Resistive Touch (ABS Housing)	AMX-MT070C	7"	7" TFT resistive touch, 800x480 resolution, RS232/RS485/RS422/USB2.0 (Cutout: 192x138mm)
	AMX-MT070IE	7"	7" TFT resistive touch, 800x480 resolution, RS232/RS485/RS422/USB2.0 (Cutout: 192x138mm)

Product Type	Product Model	HMI Size	Product Description
Resistive Touch (ABS Housing)	AMX-MT102C	10.2"	10.2" TFT resistive touch, 1024x600 resolution, RS232/RS485/RS422/USB2.0 (Cutout: 260x202mm)
	AMX-MT102IE	10.2"	10.2" TFT resistive touch, 1024x600 resolution, RS232/RS485/RS422/Ethernet/USB2.0 (Cutout: 260x202mm)

▲ Product Specifications

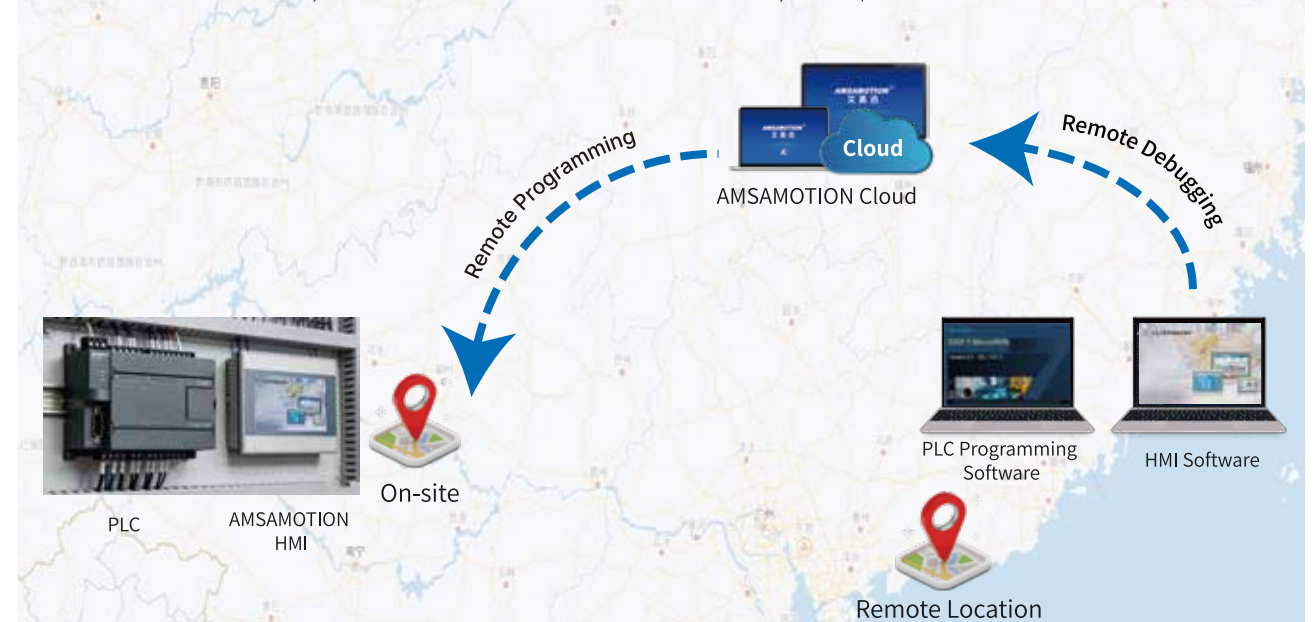
Product Type	HMI Size	Overall Dimension	Cutout Dimension	Backlight Lifetime	Resolution
Resistive Touch (Metal Case)	7"	202*148*38mm	192*138mm	>30.000 h	1024*600
	10.2"	270*212*38mm	260*202mm	>30.000 h	1024*600
	15.6"	395*258*52mm	384*247mm	>50.000 h	1920*1080
Resistive Touch (ABS Case)	4.3"	128*102*36mm	120*94mm	>30.000 h	480*272
	7"	202*165*43mm	192*138mm	>30.000 h	800*480
	10.2"	272*215*43mm	260*202mm	>50.000 h	1024*600

▲ Application scenarios



■ Remote Transparent Transmission Function

THROUGH CLOUD SERVICES, REMOTE COMPUTERS CAN MONITOR PLC PROGRAMS, UPLOAD/DOWNLOAD PLC AND HMI PROGRAMS.



▶ Smart Touch Temperature Controller

▲ Product Overview

Smart Touch Temperature Controller – A 7" all-in-one touchscreen integrating controller, recorder, and HMI. Pro version. Supports multi-channel control with 40 programmable profiles per channel. Profiles can be saved as recipes and imported/exported via USB or Excel. Real-time trend display and data logging. Historical data stored as reports, exportable via USB for analysis. Stand-alone or as Modbus RTU slave for remote monitoring, parameter setting, and data upload. User authority management and built-in wiring diagram – ready to use.

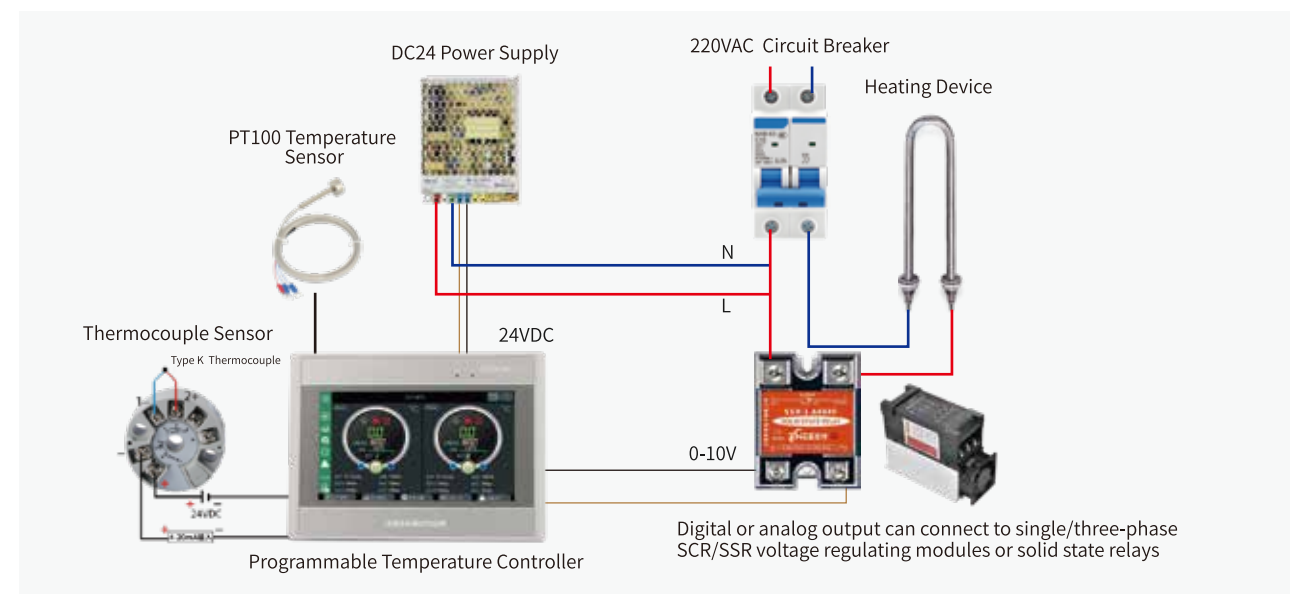
▲ Product Features

- ① 2~10 channels independent heating and cooling PID control;
- ② Advanced smart PID for precise temperature control; high-precision measurement with nonlinear correction for thermocouples/RTDs;
- ③ Data visualization – real-time and historical curve display, trends, and reports;
- ④ Programmable – 40 segments per channel for programmable temperature profiles;
- ⑤ Efficient data transfer – recipe and data exchange via USB drive and Excel;
- ⑥ Supports historical data logging and alarm functions;
- ⑦ Supports standard MODBUS RTU slave protocol;
- ⑧ Optional WiFi or 4G function, supports MQTT upload and mobile screen mirroring.

【Product Specifications】

Product Model	HMI Size	Product Description
AMX-MM7R-16MR-522TC	7"	2 independent channels PID temperature control, 40-segment programmable, USB data export
AMX-MM7R-16MR-522TCH	7"	2 cooling/heating dual channels PID temperature control, 40-segment programmable, USB data export, dual-channel control for more precise temperature

▲ Application Scenarios



▶ Constant Pressure Controller

▲ Product Overview

Constant Pressure Controller– No programming, just wire it. Simple. Supports multiple modes (tank/non-negative pressure), 18 combinations, 2-6 pumps, dual dynamic PID for fast & precise regulation. Used in residential areas, water plants, factories, HVAC, irrigation, environmental & municipal projects.

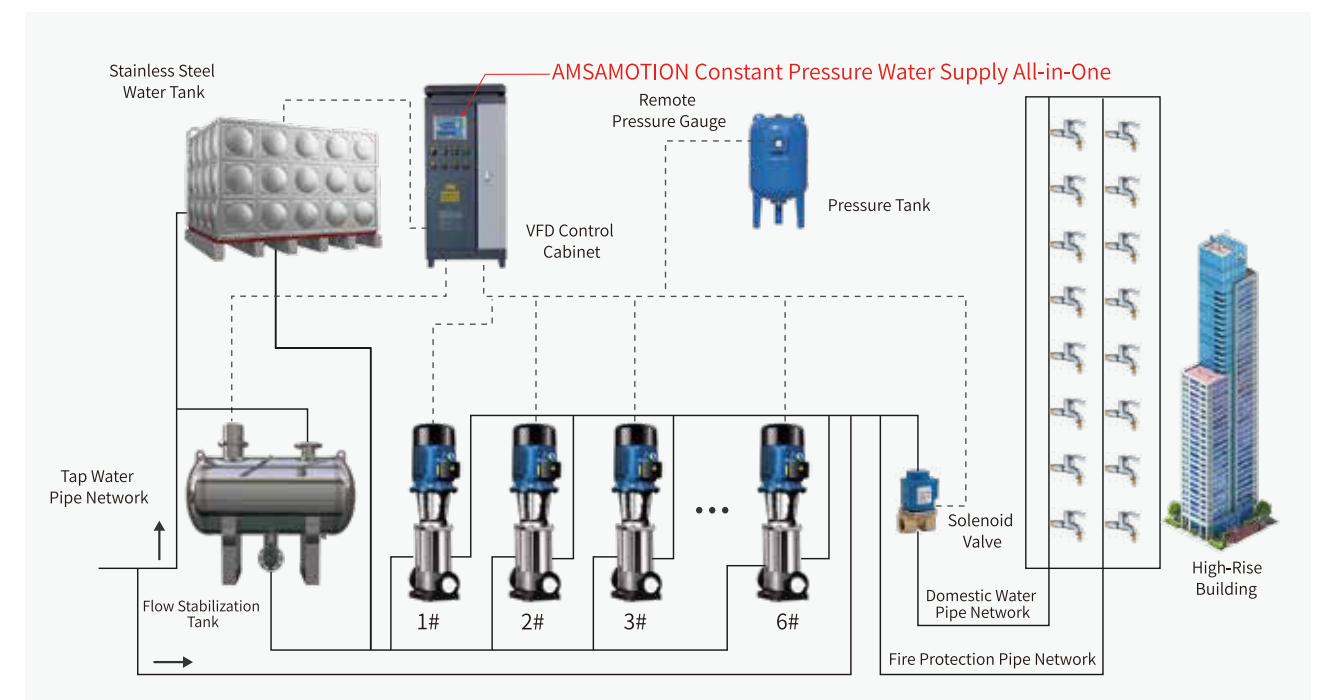
▲ Product Features

- ① Supports multiple sensor types with linear correction – eliminates display errors compared to mechanical pressure gauges;
- ② Multiple protection functions: dry-run protection, overpressure protection, start interval protection, phase sequence protection, phase loss protection, pipe burst protection, etc.;
- ③ Intelligent pump scheduling – automatic pump rotation with configurable intervals; flexible add/remove pump and sleep pump strategies, maximizing cumulative operating time consistency across pumps;
- ④ Automatic real-time alarm logging and historical alarm storage;
- ⑤ Customizable remote monitoring – remote monitoring and control via mobile phone, PC, or cloud server. Customizable MODBUS TCP protocol data. Customizable PC or mobile network connectivity for remote monitoring and control. Customizable cloud server connection for remote monitoring and control;
- ⑥ Optional WiFi or 4G function – supports MQTT upload and mobile screen mirroring.

【Constant Pressure Controller】

Product Model	HMI Size	Product Description
AMX-HS7A32MR- HY001	7"	7" HMI + 200 PLC with built-in constant pressure water supply PID program
AMX-HS10A32MR-HY001	10"	10" HMI + 200 PLC with built-in constant pressure water supply PID program

▲ Application Scenarios



IoT Series

The IoT Series covers PLC Cloud Gateways, Cloud I/O, DTUs, and LoRa wireless communication products. Designed to industrial grade, supporting remote data acquisition, wireless transparent transmission, and device-to-cloud connectivity. Features long-distance transmission, low power consumption, strong anti-interference, and easy deployment. Provides stable and reliable all-in-one smart networking and control solutions for Industrial IoT (IIoT).



► PLC Cloud Gateway

▲ Product Overview

AMSAMOTION PLC Cloud Gateway series (PG/PW/PA) supports 4G/WiFi/LAN and RS232/RS485/RS422. Compatible with 99% of PLCs and MODBUS. Enables remote monitoring, program upload/download, data acquisition, and SCADA control. Features offline retransmission, alarms, and data logging. Operate via PC, mobile app, or web. Rugged design, easy installation, and remote upgrade.

▲ Product Features

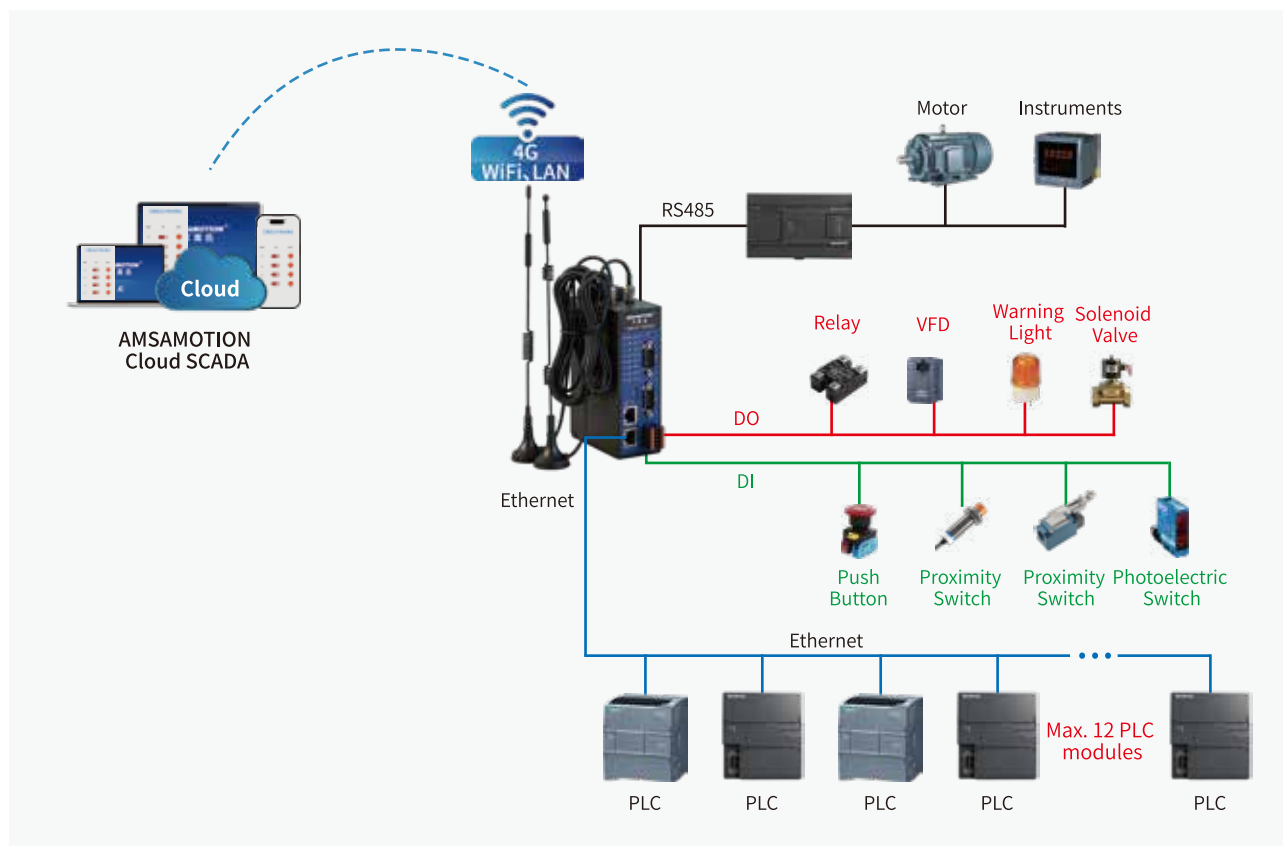
- ① Compatible with Siemens, Mitsubishi, Omron PLCs, MODBUS, and mainstream HMI upload/download – covers most field devices;
- ② Remote PLC programming, debugging, upload/download, and data monitoring via Ethernet or serial – no geographical limits;
- ③ Dual RS232/RS485 + 4G/WiFi/LAN – adapts to various field network conditions;
- ④ Self-developed AIOT PC software / mobile mini-program – visualized control, parameter configuration, multi-platform management; supports cloud SCADA with customizable templates, interface, colors, and text;
- ⑤ Built-in 8 I/O points (4 DI / 4 DO, transistor) – remote control via cloud SCADA or WeChat mini-program, no extra I/O modules needed; Ethernet port supports up to 12 devices, single port supports up to 300 data points, with 2 million data logs (expandable);
- ⑥ Firmware upgrade via Ethernet or remote host software – no on-site maintenance; threshold alarms with push notifications via WeChat; built-in web config page for networking, offline retransmission, COM delay, etc.; metal housing, DIN35 rail mount, DC24V (9~28V wide range), watchdog & reverse polarity protection.



【PLC Cloud Gateway】

Type	Product Model	Product Description
Domestic	AMX-IOT-PG100	RS232 / 1x Ethernet / 4G (external network); remote upload/download & PLC monitoring
	AMX-IOT-PG200	RS485 / 1x Ethernet / 4G (external network); remote upload/download & PLC monitoring
	AMX-IOT-PG305	RS485 / 5x Ethernet / 4G / WiFi; remote upload/download & PLC monitoring
	AMX-IOT-PW100	RS232 / 1x Ethernet / WiFi (external network); remote upload/download & PLC monitoring
	AMX-IOT-PW200	RS485 / 1x Ethernet / WiFi (external network); remote upload/download & PLC monitoring
	AMX-IOT-PG100S	RS232 / 1x Ethernet / 4G; remote upload/download, PLC monitoring, data acquisition, cloud SCADA, data logging
	AMX-IOT-PG200S	RS485 / 1x Ethernet / 4G; remote upload/download, PLC monitoring, data acquisition, cloud SCADA, data logging
	AMX-IOT-PG600S	Dual serial (RS485/422/232) / 2x Ethernet / WiFi / 4G; remote upload/download, PLC monitoring, data acquisition, offline retransmission; built-in 4 DI / 4 DO (transistor); cloud SCADA, data logging
	GA1M-DR08	RS485 / 1x Ethernet / 4G; remote upload/download & PLC monitoring; built-in 8 DO (relay), expandable up to 16 I/O modules (AI/AO & DI/DO compatible)
International	GL1M-DR08	RS485 / 1x Ethernet / 4G; remote upload/download & PLC monitoring; supports LoRa expansion, web config; built-in 8 DO (relay), expandable up to 16 I/O modules (AI/AO & DI/DO compatible)
	AMX-IOT-PW100G	RS232 / 1x Ethernet / WiFi (external network); remote upload/download & PLC monitoring; global band support for overseas scenarios
	AMX-IOT-PW200G	RS485 / 1x Ethernet / WiFi (external network); remote upload/download & PLC monitoring; global band support for overseas scenarios
	AMX-IOT-PG100G	RS232 / 1x Ethernet / 4G (external network, no SIM); remote upload/download & PLC monitoring; global band support for overseas scenarios
	AMX-IOT-PG200G	RS485 / 1x Ethernet / 4G (external network, no SIM); remote upload/download & PLC monitoring; global band support for overseas scenarios

▲ Application Scenarios



▶ Cloud I/O Module

▲ Product Overview

AMSAMOTION Cloud I/O Module – 4G/WiFi for distance-free remote, mutual & scheduled control. MODBUS RTU config. AIOT_Works PC & WeChat mini-program. Customizable interface. Empowers smart manufacturing.

▲ Product Features

- ① 4G/WiFi communication – distance-free remote control;
- ② Standard Modbus RTU protocol – seamless integration with industrial equipment;
- ③ Dual operation via mini-program or PC software – Modbus RTU configuration, variable binding, customizable interface (text, background);
- ④ All-in-one: remote control, mutual control, scheduled control, data acquisition;
- ⑤ Scheduled control – configurable timed output, timed toggle, output hold;
- ⑥ Remote control – DI/DO for mutual control; device authorization support;
- ⑦ Remote upgrade, dual watchdog protection – strong anti-interference;
- ⑧ Multiple models – DI/DO or AI/AO selectable as needed;
- ⑨ Multiple voltage options – 9/18~28VDC, 100~250VAC/100~450VAC;
- ⑩ Industrial metal case or ABS flame-retardant case – DIN35 rail mount.

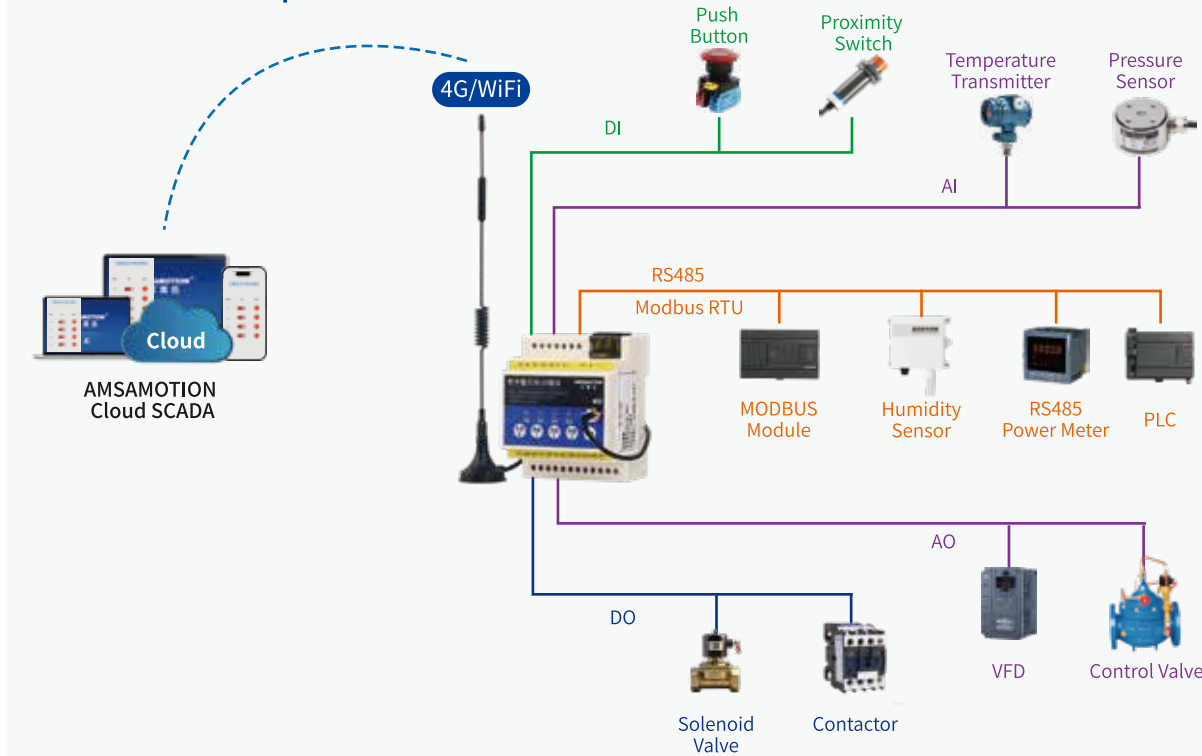


【Cloud I/O Wireless Module】

Type	Product Model	Product Description
4-Ch Cloud I/O (Metal Case)	AMX-IOT-4DI	4 DI + Cloud SCADA + MODBUS + Mini-program + 4G, 24VDC
	AMX-IOT-4DR	4 DO (Relay) + Cloud SCADA + MODBUS + Mini-program + 4G, 24VDC
	AMX-IOT-4DM	2 DI / 2 DO (Relay) + Cloud SCADA + MODBUS + Mini-program + 4G, 24VDC
	AMX-IOT-4AI	4 AI (0~10V), 12-bit, Acc. $\pm 0.8\%FS$, Sampling Rate: 50ms, Cloud SCADA + MODBUS + Mini-program + 4G, 24VDC
	AMX-IOT-4AQ	4 AO (0~10V), 12-bit, Acc. $\pm 0.8\%FS$, Cloud SCADA + MODBUS + Mini-program + 4G, 24VDC
	AMX-IOT-4AM	2 AI / 2 AO (0~10V), 12-bit, Acc. $\pm 0.8\%FS$, Sampling Rate: 50ms, Cloud SCADA + MODBUS + Mini-program + 4G, 24VDC
8-Channel Cloud I/O (ABS Case)	IOT-GD0-8DM	4 DI / 4 DO (Relay) + Cloud SCADA + MODBUS + Mini-program + 4G, 18~28VDC
	IOT-GA2-8DM	4 DI / 4 DO (Relay) + Cloud SCADA + MODBUS + Mini-program + 4G, 100~250VAC
	IOT-GA3-8DM	4 DI / 4 DO (Relay) + Cloud SCADA + MODBUS + Mini-program + 4G, 100~450VAC
	IOT-GD0-8AM	4 AI / 4 AO (0~10V / 0~20mA), 12-bit, Acc. $\pm 0.8\%FS$, Sampling Rate: 200ms, Cloud SCADA + MODBUS + Mini-program + 4G, 18~28VDC
	IOT-GA2-8AM	4 AI / 4 AO (0~10V / 0~20mA), 12-bit, Acc. $\pm 0.8\%FS$, Sampling Rate: 200ms, Cloud SCADA + MODBUS + Mini-program + 4G, 100~250VAC
	IOT-GA3-8AM	4 AI / 4 AO (0~10V / 0~20mA), 12-bit, Acc. $\pm 0.8\%FS$, Sampling Rate: 200ms, Cloud SCADA + MODBUS + Mini-program + 4G, 100~450VAC
	IOT-WD0-8DM	4 DI / 4 DO (Relay) + Cloud SCADA + MODBUS + Mini-program + WiFi, 18~28VDC
	IOT-WA2-8DM	4 DI / 4 DO (Relay) + Cloud SCADA + MODBUS + Mini-program + WiFi, 100~250VAC
	IOT-WA3-8DM	4 DI / 4 DO (Relay) + Cloud SCADA + MODBUS + Mini-program + WiFi, 100~450VAC
	IOT-WD0-8AM	4 AI / 4 AO (0~10V / 0~20mA), 12-bit, Acc. $\pm 0.8\%FS$, Sampling Rate: 200ms, Cloud SCADA + MODBUS + Mini-program + WiFi, 18~28VDC
	IOT-WA2-8AM	4 AI / 4 AO (0~10V / 0~20mA), 12-bit, Acc. $\pm 0.8\%FS$, Sampling Rate: 200ms, Cloud SCADA + MODBUS + Mini-program + WiFi, 100~250VAC
	IOT-WA3-8AM	4 AI / 4 AO (0~10V / 0~20mA), 12-bit, Acc. $\pm 0.8\%FS$, Sampling Rate: 200ms, Cloud SCADA + MODBUS + Mini-program + WiFi, 100~450VAC

▲ Application Scenarios

■ Cloud Data Acquisition



▶ DTU Wireless Module

▲ Product Overview

AMSAMOTION DTU Wireless Module – 4G Cat-1 global band, plug-and-play. Solves on-site wiring challenges, enhances remote management & data transmission. 4 models tailored for serial, function, and expansion needs.

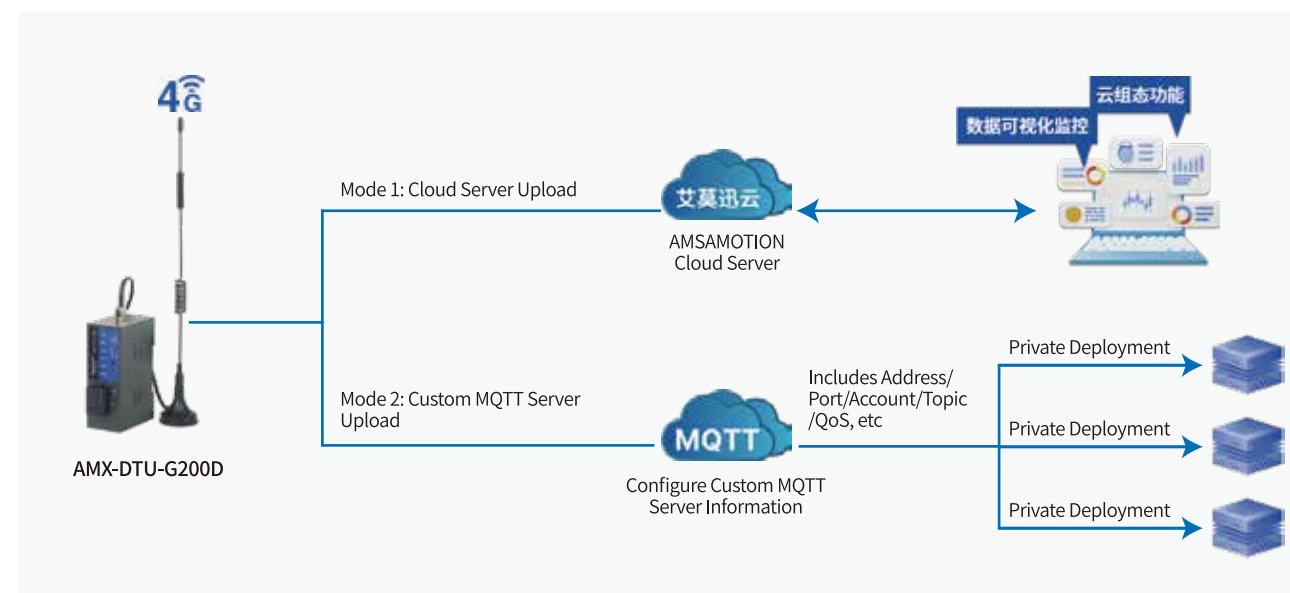
▲ Product Features

- ① Serial passthrough, RS485 acquisition + dual upload; cloud & custom MQTT upload;
- ② 3 forwarding modes (unicast/broadcast/mixed) – up to 8 RS485/232 slaves, cloud config;
- ③ Ethernet master-slave passthrough (1-to-1 / 1-to-4);
- ④ PC, web, or mini-program config;
- ⑤ Watchdog, 9~28VDC, reverse polarity, surge protection; -15°C ~ +65°C.

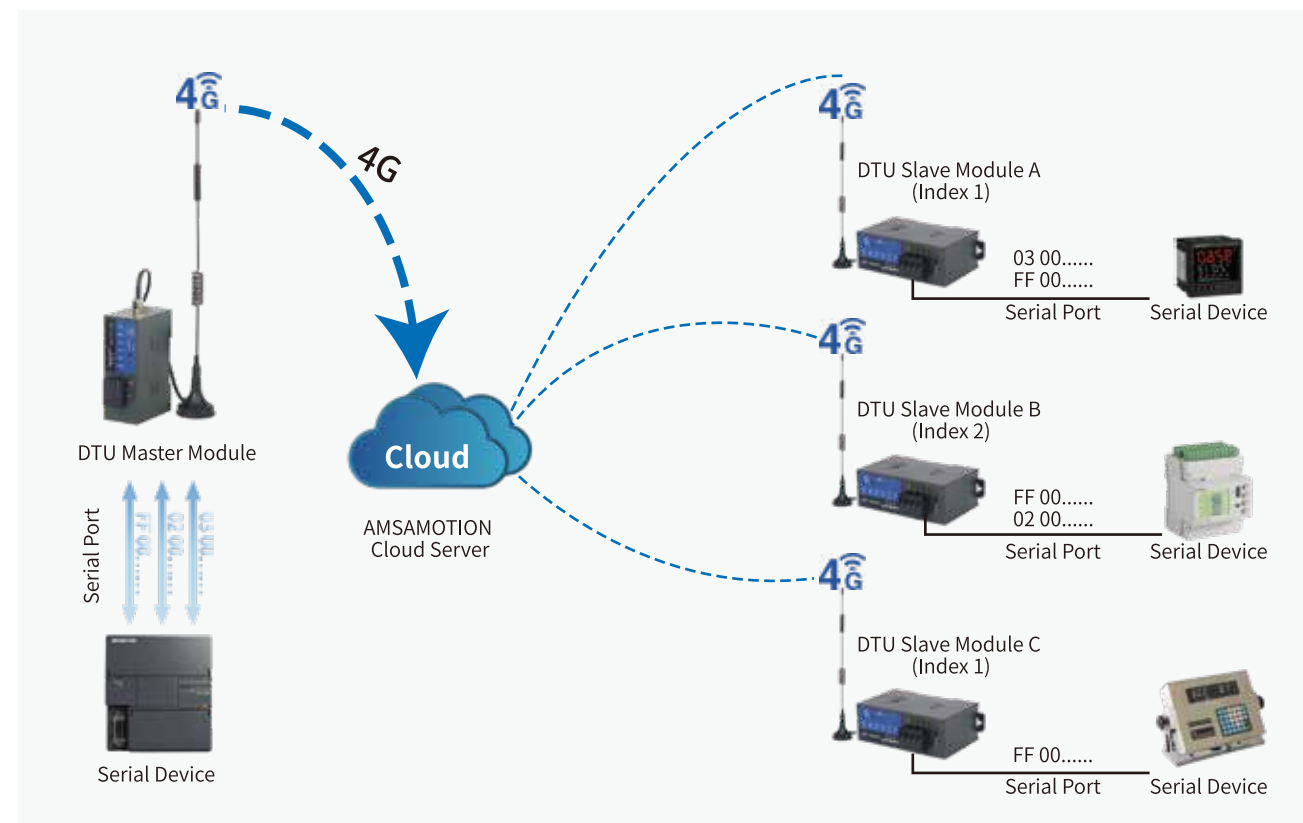
【DTU Wireless Module】

Product Model	Product Description
AMX-DTU-G100	1 x RS232, 4G, serial passthrough – provides reliable wireless passthrough for RS232 devices, 1-to-N data forwarding, standard industrial protocol communication & data format conversion
AMX-DTU-G200	1 x RS485, 4G, serial passthrough – provides reliable wireless passthrough for RS485 devices, 1-to-N data forwarding, standard industrial protocol communication & data format conversion
AMX-DTU-G200D	1 x RS485, 4G, RS485 data acquisition + dual-channel upload – supports cloud server upload & custom MQTT upload. Enables precise data acquisition from PLCs and MODBUS devices without interfering with normal serial communication. Upload to AMSAMOTION Cloud or custom MQTT server – for centralized data management, remote monitoring, and flexible adaptation
AMX-DTU-G600	1 x RS485, 1 x RJ45 Ethernet, 4G, serial/Ethernet passthrough, watchdog protection. 3 forwarding modes for RS485 wireless passthrough – up to 1 master + 8 slaves. Web config for Ethernet passthrough – up to 1 master + 4 slaves. Supports Ethernet-to-Ethernet and serial-to-serial two-way passthrough – flexible networking for various device types, eliminating wiring restrictions

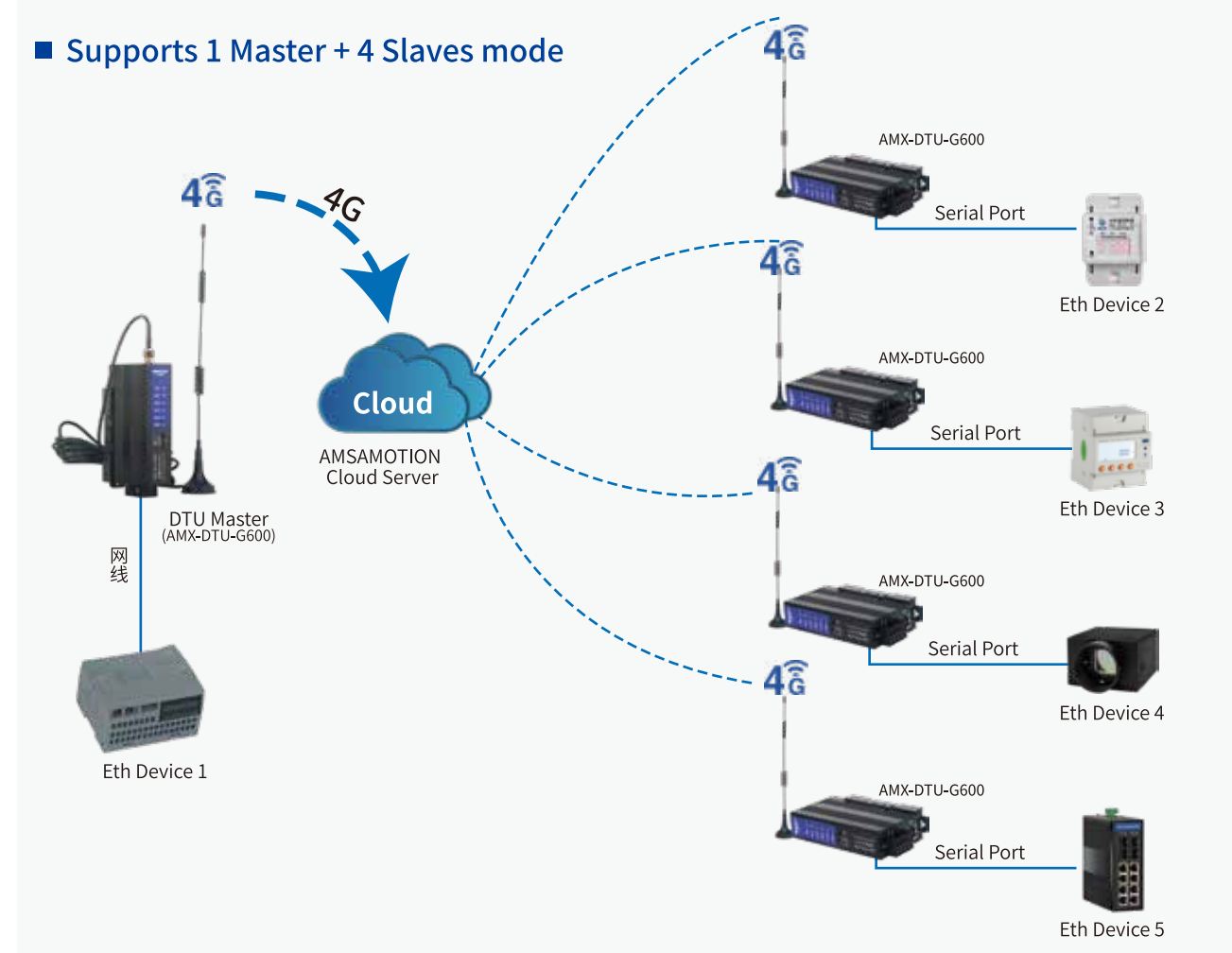
▲ Application Scenarios



▲ Application Scenarios



■ Supports 1 Master + 4 Slaves mode



▶ LoRa Wireless Module

▲ Product Overview

AMSAMOTION LoRa Wireless Communication Modules are divided into two main categories: I/O acquisition & control and serial passthrough. The core concept is to replace traditional wired connections with LoRa wireless, reducing wiring and maintenance costs. Operating in the 410-525/550MHz free ISM band, supporting MODBUS RTU and transparent transmission, compatible with serial ports and Ethernet interfaces. Supports point-to-point, point-to-multipoint, and multi-level relay networking. Open-area basic communication range: 600-3000 meters.

▲ Product Features

- 1 LoRa tech – strong anti-interference; half/full-duplex (Pro); air baud rate 300-18229bps (lower = longer range);
- 2 MODBUS RTU – serial to LoRa; point-to-point & point-to-multipoint;
- 3 RS232/RS485 – configurable 1200~115200bps, multiple formats;
- 4 Multi-level relay – extends wireless range;
- 5 AT commands or config tool – changes take effect after reboot;
- 6 Bus fault mode – configurable DO hold/reset;
- 7 Digital output buttons (select models) – self-lock/momentary/interlock;
- 8 Serial firmware upgrade;
- 9 Address & encryption support – secure data transmission;
- 10 Temp: -10°C~50°C (Pro: -40°C~85°C);
- 11 Reverse polarity protection, opto-isolation, mechanical isolation;
- 12 Metal or ABS flame-retardant case – DIN35 rail mount.



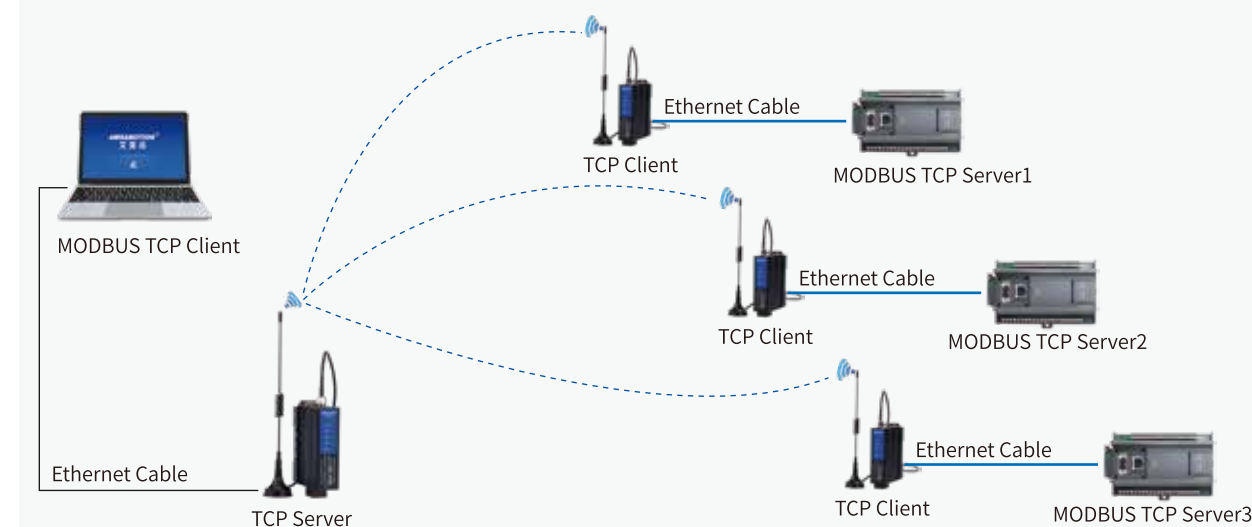
【LoRa Wireless Module】

Product Model	Product Description
LoRa-SD0-8DM	4 DI / 4 DO (Relay) + Relay function + MODBUS RTU to LoRa, Max TX power 20dbm, wireless remote control, 18~28VDC
LoRa-SA2-8DM	4 DI / 4 DO (Relay) + Relay function + MODBUS RTU to LoRa, Max TX power 20dbm, wireless remote control, 100~250VAC
LoRa-SA3-8DM	4 DI / 4 DO (Relay) + Relay function + MODBUS RTU to LoRa, Max TX power 20dbm, wireless remote control, 100~450VAC
LoRa-SD0-8AM	4 AI / 4 AO (0~10V / 0~20mA), 12-bit, Acc. ±0.8%FS, Sampling Rate: 600ms, Relay function + MODBUS RTU to LoRa, Max TX power 20dbm, 18~28VDC
LoRa-SA2-8AM	4 AI / 4 AO (0~10V / 0~20mA), 12-bit, Acc. ±0.8%FS, Sampling Rate: 600ms, Relay function + MODBUS RTU to LoRa, Max TX power 20dbm, 100~250VAC
LoRa-SA3-8AM	4 AI / 4 AO (0~10V / 0~20mA), 12-bit, Acc. ±0.8%FS, Sampling Rate: 600ms, Relay function + MODBUS RTU to LoRa, Max TX power 20dbm, 100~450VAC
RS485-LoRa-M	Max TX power 22dbm, RS485 to LoRa wireless, single antenna half-duplex, transparent transmission, relay support
RS232/485-LoRa	Max TX power 20dbm, RS232 or RS485 to LoRa wireless, single antenna half-duplex, transparent transmission, relay support
RS232/485-LoRa-Pro	Max TX power 20dbm, RS232 or RS485 to LoRa wireless, single antenna half-duplex, transparent transmission, relay support
RS232/485/422-LoRa	Max TX power 20dbm, RS232/RS485/RS422 to LoRa wireless, single antenna half-duplex, transparent transmission, relay support.
RS232/485-LoRa-T	Max TX power 20dbm, RS232 or RS485 to LoRa long-range wireless, single antenna half-duplex, transparent transmission, relay support
LoRa-ETH	Max TX power 20dbm, RJ45 Ethernet (10/100Mbps) to LoRa wireless, single antenna half-duplex, transparent transmission, relay support
USB-LoRa	Max TX power 20dbm, USB to LoRa wireless, single antenna half-duplex, transparent transmission, relay support
LoRa-MODBUS-IO8R-A	8 DI / 8 DO (Relay); 6 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); MODBUS RTU to LoRa; Max TX power 20dbm

Product Model	Product Description
LoRa-MODBUS-4DI	4 DI, MODBUS RTU to LoRa, Max TX power 20dbm, wireless remote control support
LoRa-MODBUS-4DR	4 DO (Relay), MODBUS RTU to LoRa, Max TX power 20dbm, wireless remote control support
LoRa-MODBUS-4DT	4 DO (Transistor PNP), MODBUS RTU to LoRa, Max TX power 20dbm, wireless remote control support
LoRa-MODBUS-1DI1DR	1 DI / 1 DO (Relay), MODBUS RTU to LoRa, Max TX power 20dbm, wireless remote control support
LoRa-MODBUS-4AI	4 AI (0~10V / 0~20mA), 12-bit, Acc. ±0.8%FS, Sampling Rate: 1ms, MODBUS RTU to LoRa, Max TX power 20dbm, wireless remote control support
LoRa-MODBUS-4AO	4 AO (0~10V / 0~20mA), 12-bit, Acc. ±1%FS, Sampling Rate: 1ms, MODBUS RTU to LoRa, Max TX power 20dbm, wireless remote control support

▲ Application Scenarios

■ Point-to-Multipoint Communication



▶ Network Coupler

▲ Product Overview

AMSAMOTION Network Coupler– Dual Ethernet or 5-port config. NAT conversion & transparent transmission. Maps IPs for multiple PLCs – resolves IP conflicts, enables cross-subnet data acquisition & protocol conversion. Built-in WiFi for wireless programming & access. Meets complex industrial networking needs.

▲ Product Features

- 1 TCP/UDP – cross-subnet PLC/Ethernet device connection; NAT for up to 4 devices; LAN1 expands to switch for multi-channel; unified IP management;
- 2 LAN1 (2-port switch) + LAN2 single port; WiFi AP/STA/AP+STA – flexible wired/wireless; remote PLC access for wireless programming & data acquisition via LAN2 or WiFi;
- 3 Web config – default IP, easy setup; firmware online upgrade;
- 4 Ethernet, WiFi AP, STA modes run simultaneously on different NATs; supports PLC/HMI upload/download, data acquisition; compatible with mainstream Ethernet PLCs & IP cameras;
- 5 DC24V (9~28V), surge & reverse polarity protection, watchdog; DIN35 rail mount.



IoT Series

[Network Coupler]

Product Model	Product Description
ETH-NAT-T03	Dual Ethernet ports, NAT conversion & transparent transmission – maps IP addresses for multiple PLCs, cross-subnet data acquisition & protocol conversion; built-in WiFi for wireless programming & access; resolves IP conflicts and industrial networking needs
ETH-NAT-P03	Dual Ethernet ports, NAT conversion & transparent transmission – resolves IP conflicts, cross-subnet data acquisition; supports S7, 3E, and MODBUS protocol conversion + WiFi wireless programming & access; meets flexible industrial networking needs
ETH-NAT-T05	5 Ethernet ports, NAT conversion & transparent transmission – maps IP addresses for multiple PLCs, cross-subnet data acquisition & protocol conversion; built-in WiFi for wireless programming & access; resolves IP conflicts and industrial networking needs

Application Scenarios

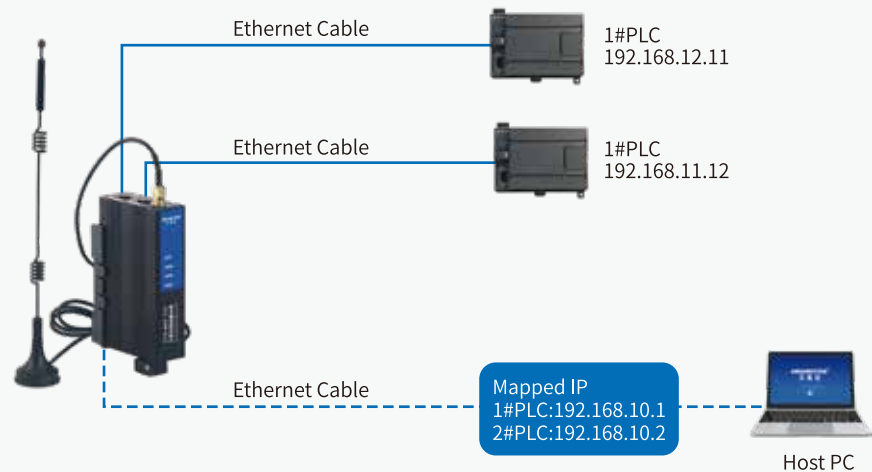
Compatible with Mitsubishi 3E Protocol and Siemens S7 Protocol Data Conversion



HMI & PLC Data Conversion



Cross-Subnet to Same-Subnet Conversion



Industrial Switch

Product Overview

AMSAMOTION Industrial Ethernet Switches precisely match different industrial networking requirements, providing a stable, efficient, and easy-to-deploy high-reliability Ethernet data transmission channel for industrial automation production lines.

Product Features

- ① All RJ45 ports – support 10/100Base-TX (100Mbps);
- ② Low power design (total power < 5W) – compact size, saves space for dense deployment in industrial control cabinets;
- ③ Strong anti-interference, low power, plug-and-play; DIN rail / panel dual mounting – adapts to various industrial control cabinets;
- ④ Entire series industrial-grade design – dual DC12V~48V power inputs, wide voltage power supply;
- ⑤ Built-in 5.5mm DC jack – supports both industrial and household use.

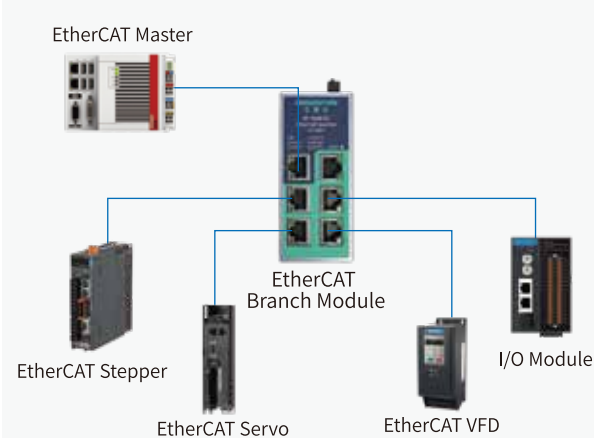


[Industrial Switch]

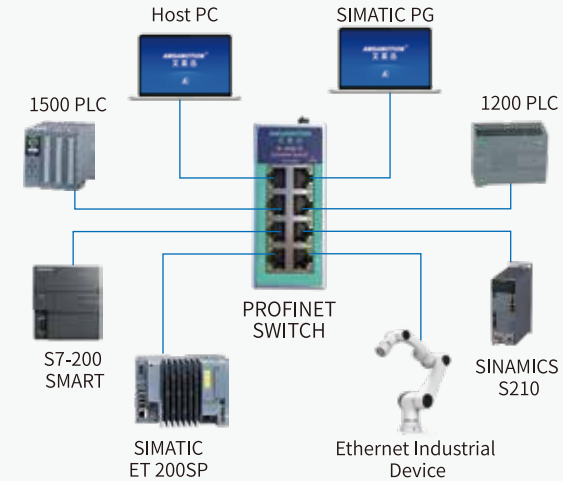
Product Type	Product Model	Product Description
Basic Switch	SF-1005	Industrial 5-port 10/100Base-TX switch; built-in 5.5mm DC jack – industrial & household use
	SF-1008	Industrial 8-port 10/100Base-TX switch; built-in 5.5mm DC jack – industrial & household use
Book-Type Switch	SF-1005-TK	Industrial 5-port 10/100Base-TX switch; built-in 5.5mm DC jack – industrial & household use
	SF-1008-TK	Industrial 8-port 10/100Base-TX switch; built-in 5.5mm DC jack – industrial & household use
PROFINET Switch	SF-1005-PN	Industrial 5-port 10/100Base-TX switch – for PROFINET slave devices and line networking; supports star topology
	SF-1008-PN	Industrial 8-port 10/100Base-TX switch – for PROFINET slave devices and line networking; supports star topology
EtherCAT Branch Module	SF-1006-EC	Industrial 6-port EtherCAT branch module – 1 x EtherCAT IN + 5 x EtherCAT OUT; for multi-axis complex equipment and line networking; supports star topology

Application Scenarios

EtherCAT Branch Connection



PROFINET SWITCH CONNECTION



Protocol Gateway Series

Protocol Gateway Series – PLC communication expansion, bus protocol conversion, serial servers. Covers all industrial automation interconnection needs. Core component for digital transformation & smart manufacturing.

Supports PROFINET, EtherCAT, Modbus RTU/TCP, CAN. Serial-to-Ethernet passthrough, multi-protocol conversion, PLC expansion. Bridges PLCs, servos, instruments, sensors, remote I/O, and host PCs – solves cross-brand, cross-protocol compatibility issues.



► PLC Comm Expander

▲ Product Overview

PLC Communication Expansion Module – A cost-effective Ethernet processor for factory device connectivity. Supports mainstream PLCs (Mitsubishi, Siemens, Omron, Delta, Xinje, Panasonic, Yonghong) for program upload/download and monitoring via Ethernet, plus data read/write via host PC or SCADA using native PLC protocol or MODBUS TCP. Features dual serial ports: one connects to the PLC, the other provides a passthrough port for serial HMI – enabling Ethernet expansion while retaining HMI monitoring. Plug-and-play, web configurable.



▲ Product Features

- ① Ethernet + serial HMI simultaneous communication via PLC serial port expansion;
- ② Plug-and-play – no programming required;
- ③ Compatible with Mitsubishi, Siemens, Omron, Delta, Xinje, Panasonic, Yonghong PLCs; auto-adapts to serial HMI;
- ④ Web-based configuration;
- ⑤ Native PLC Ethernet protocol or MODBUS TCP;
- ⑥ Host PC/SCADA software (KingView, ForceControl) data read/write;
- ⑦ Program upload/download & monitoring via Ethernet;
- ⑧ Multiple TCP connections for simultaneous data collection;
- ⑨ Powered via PLC programming port (optional DC24V with reverse polarity protection);
- ⑩ DIN35 rail mount – compact, easy installation;
- ⑪ Ideal for industrial field data acquisition & control.

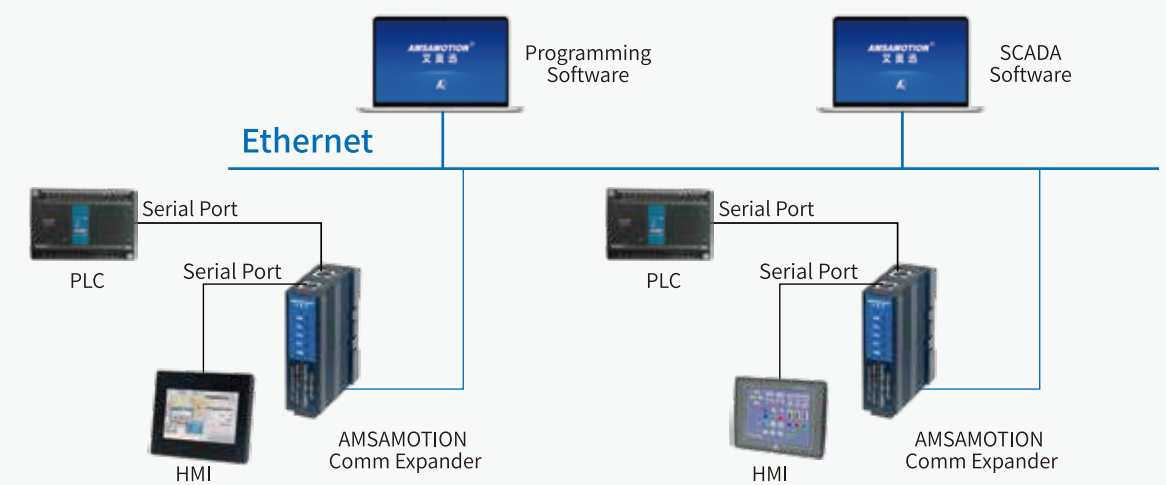
【PLC Comm Expander】

Product Type	Product Model	Product Description
Siemens Series	ETH-200-2P (Bridge)	Ethernet data acquisition for S7-200/SMART 200 PLCs; supports S7 TCP and MODBUS TCP; multi-master not supported
	ETH-200 (Direct)	Ethernet data acquisition for S7-200/SMART 200 PLCs; supports S7 TCP and MODBUS TCP; multi-master supported
	ETH-300-2P (Bridge)	Ethernet data acquisition for S7-300 series PLCs; supports S7 TCP and MODBUS TCP; DB female connector; multi-master not supported
	ETH-300 (Direct)	Ethernet data acquisition for S7-300 series PLCs; supports S7 TCP and MODBUS TCP; multi-master supported
Omron Series	ETH-CJ-2P	Enables Ethernet communication for Omron CJ series (CJ1M/CJ2M/CS1/CJ1/NX1P) PLCs
	ETH-CP-2P	Enables Ethernet communication for Omron CP series PLCs, restores PLC communication, supports networking and HMI communication
	ETH-CX-2P	Enables Ethernet communication for Omron CPM1A/CPM2A/CQM1/CQM1H/C200H/C500/C1000/C2000 series PLCs
Mitsubishi Series	ETH-FX-2P	Enables Ethernet communication for Mitsubishi FX1S, FX1N/1NC, FX2N/2NC, FX3U/3UC, FX3G/3GC, FX3S series PLCs; restores one programming port; supports MODBUS TCP
	FX-2T1	Expands the RS422 programming port of Mitsubishi FX series PLCs to 2 ports – simultaneous communication with 2 devices
	ETH-Q-2P	Enables Ethernet communication for Mitsubishi Q series (Q00UJ/Q0xU/Q0xUDH, Q02/Q0xH) PLCs; supports MODBUS TCP

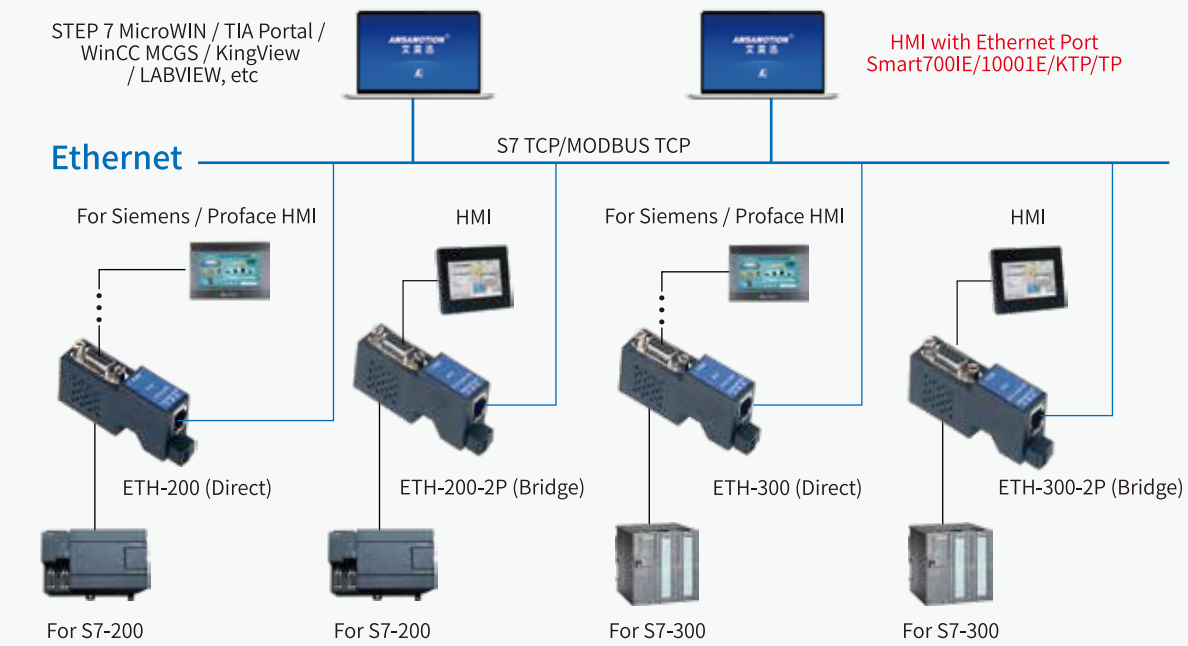
Product Type	Product Model	Product Description
Delta Series	ETH-DVP-2P	Enables Ethernet communication for Delta DVP series PLCs, restores PLC communication, supports networking and HMI communication
Panasonic Series	ETH-FP-2P	Enables Ethernet communication for Panasonic FP-X, FP-X0, FP0, FP0R, FP2SH PLCs; restores one programming port; supports MODBUS TCP
Yonghong Series	ETH-FBS-2P	Enables Ethernet communication for Yonghong FBS series PLCs; restores one programming port; supports MODBUS TCP
Wecon Series	ETH-LX-2P	Enables Ethernet communication for Wecon LX1S, LX2N/V, LX3V/VP/VM PLCs; restores one programming port; supports MODBUS TCP
Xinje Series	ETH-XJ-2P	Enables Ethernet communication for Xinje XC/XD/XL PLCs; restores one programming port; supports MODBUS TCP
	XJ-2T1	Expands the RS232 programming port of Xinje XC/XD series PLCs to 2 ports – simultaneous communication with 2 devices

▲ Application Scenarios

■ PLC Serial Communication Expansion (Other PLC Brands)



■ PLC Serial Communication Expansion (For Siemens)



■ PLC Serial Communication Expansion (For Omron)



► Bus Protocol Conversion Module

▲ Product Overview

The Bus Protocol Conversion Module covers all mainstream industrial bus protocols including EtherCAT, PROFINET, MODBUS, CAN, MQTT, and Profibus – enabling bidirectional data exchange and transparent transmission between different networks. Supports flexible master/slave configuration, independent multi-port communication, ring networking, and cloud access. Efficiently solves device interconnection issues, compatible with mainstream PLCs and field devices – enabling stable, efficient data acquisition and command linkage for industrial automation systems.



▲ Product Features

- ① Protocol conversion – PROFINET/EtherCAT/MODBUS RTU/TCP/CAN – seamless cross-protocol interconnection;
- ② Flexible interfaces – Ethernet, RS422/485, CAN – independent master/slave per port;
- ③ Multi-mode – passthrough, master/slave, polling, edge-trigger – for acquisition & control;
- ④ Fast & stable – up to 4.6Mbps, auto PDO mapping, real-time;
- ⑤ Reverse polarity protection, termination resistors, firmware upgrade, -10°C~+50°C.

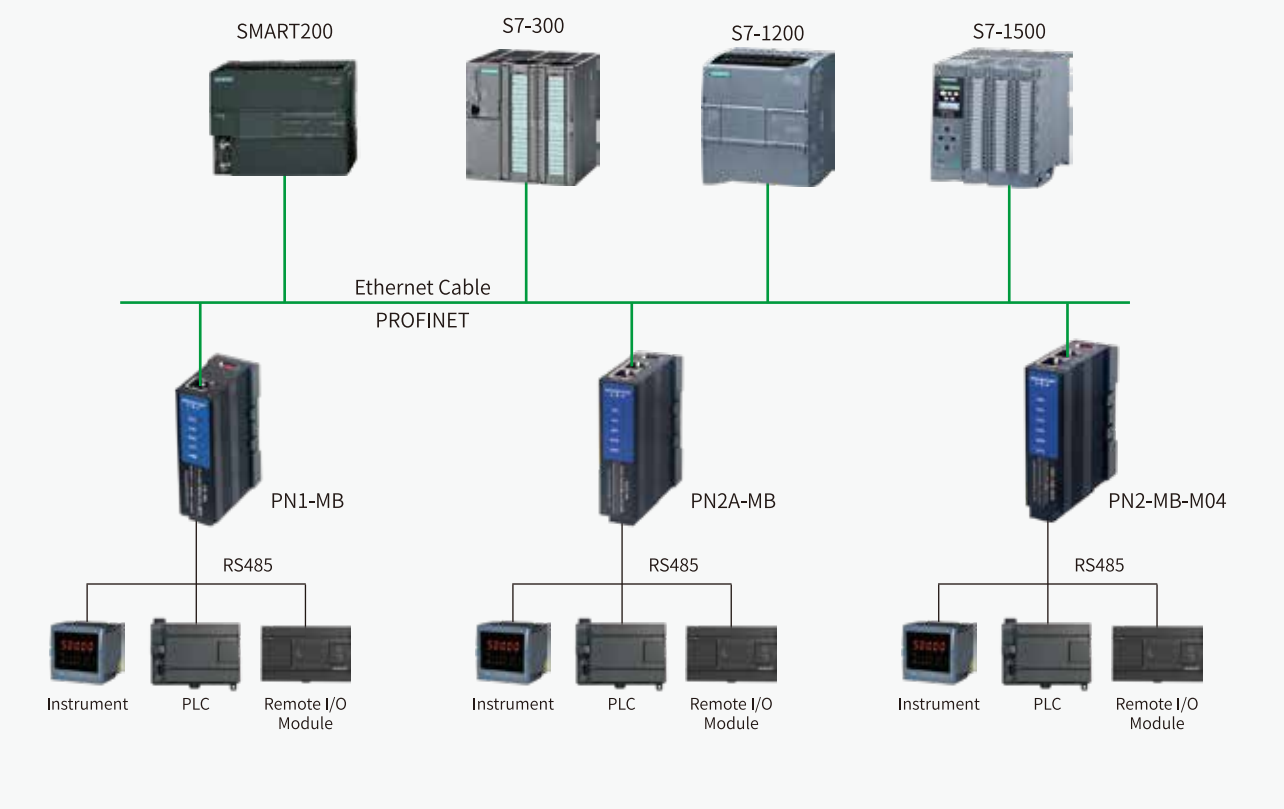
【Bus Protocol Conversion Module】

Product Type	Product Model	Product Description
PROFINET转MODBUS	PN1-MB	PROFINET 1-port (RJ45) slave + 1 x RS422 (RS485-compatible) + 1 x RS485; 2 independent MODBUS RTU masters; baud rate 2400~4.60875Mbps; supports 63 command nodes
	PN2A-MB	PROFINET 2-port (RJ45) slave + 1 x RS422 (RS485-compatible) + 1 x RS485; 2 independent MODBUS RTU masters; baud rate 2400~4.60875Mbps; supports 63 command nodes
	PN2-MB-M04	PROFINET 2-port (RJ45) slave + 4 x RS485 (terminal block); 4 independent MODBUS RTU masters; baud rate 2400~4.60875Mbps; supports 63 command nodes
	PN2-MB-RT	PROFINET 2-port (RJ45) slave + 1 x Ethernet (RJ45) + 1 x RS485 (RS422-compatible); 1 MODBUS TCP master/slave, 1 MODBUS RTU master/slave; baud rate 2400~4.60875Mbps; supports 63 command nodes

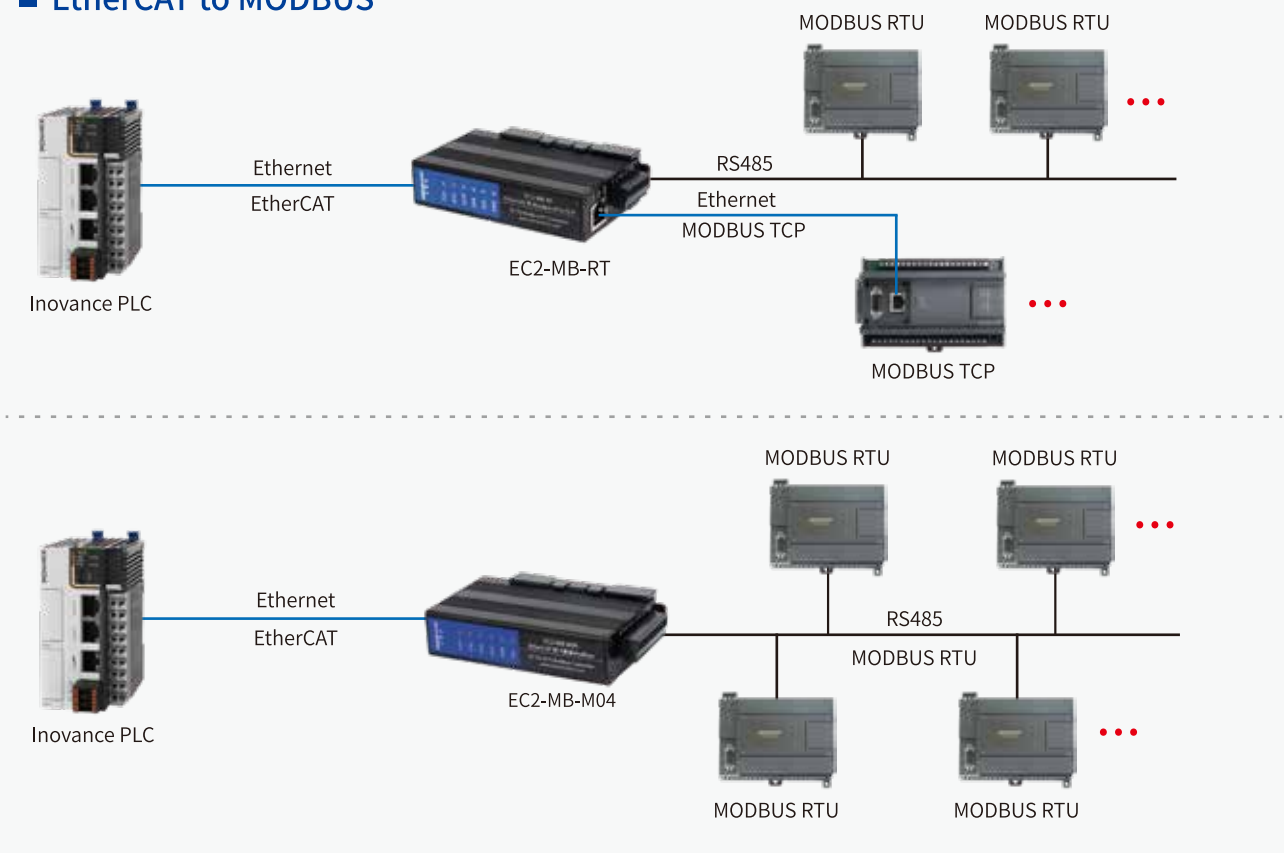
Product Type	Product Model	Product Description
EtherCAT to MODBUS	EC2-MB-M04	2-port EtherCAT (RJ45) slave + 4 x RS485 (terminal block); 4 independent MODBUS RTU master/slave & passthrough modes; baud rate 2400~4.60875Mbps; supports 64 MODBUS commands (slots)
	EC2-MB-RT	2-port EtherCAT (RJ45) slave + 1 x Ethernet (RJ45) + 1 x RS485 (RS422-compatible); 1 MODBUS TCP master/slave, 1 MODBUS RTU master/slave; baud rate 2400~4.60875Mbps; supports 64 MODBUS commands (slots)
	RS485/RS422-EC	2-port EtherCAT (RJ45) slave + 1 x RS485 + 1 x RS422; manages up to 10 MODBUS slaves, each supports 64 coils, 64 discrete inputs, 16 holding/input registers; single slave supports up to 640 coils and 160 registers; transparent passthrough – direct data passthrough between EtherCAT and serial, no protocol parsing required
Profibus DP to MODBUS	PD-MB	1 x Profibus-DP slave + 1 x RS485 (terminal block); bidirectional conversion between Profibus-DPVO and MODBUS; supports MODBUS master/slave modes and 48 MODBUS commands
EtherCAT to CAN	EC2-CA-M02	2-port EtherCAT (RJ45) slave + 2 x CAN (terminal block); 2 independent CAN buses; supports CAN2.0B/2.0A, baud rate 5K~1M; supports 30 CAN messages
PROFINET to CANBUS	PN1-CA-M02	1-port PROFINET (RJ45) slave + 2 x CAN (terminal block); 2 independent CAN buses; supports CAN2.0B/2.0A, baud rate 5K~1M; supports 63 CAN messages
	PN2-CA-M02	2-port PROFINET (RJ45) slave + 2 x CAN (terminal block); 2 independent CAN buses; supports CAN2.0B/2.0A, baud rate 5K~1M; supports 63 CAN messages
PROFINET to EtherCAT	PN2-EC-M	2-port PROFINET (RJ45) slave + 1-port EtherCAT master (RJ45); PROFINET slave to EtherCAT master bidirectional protocol conversion; min cycle 1ms; 100Mbps; supports control & diagnostics for up to 32 EtherCAT slaves
	PN2-EC-S	2-port PROFINET (RJ45) slave + 2-port EtherCAT slave (RJ45); PROFINET slave to EtherCAT slave gateway – bidirectional data mapping between the two buses; supports up to 63 mapping slots; ideal for multi-protocol industrial networking

Application Scenarios

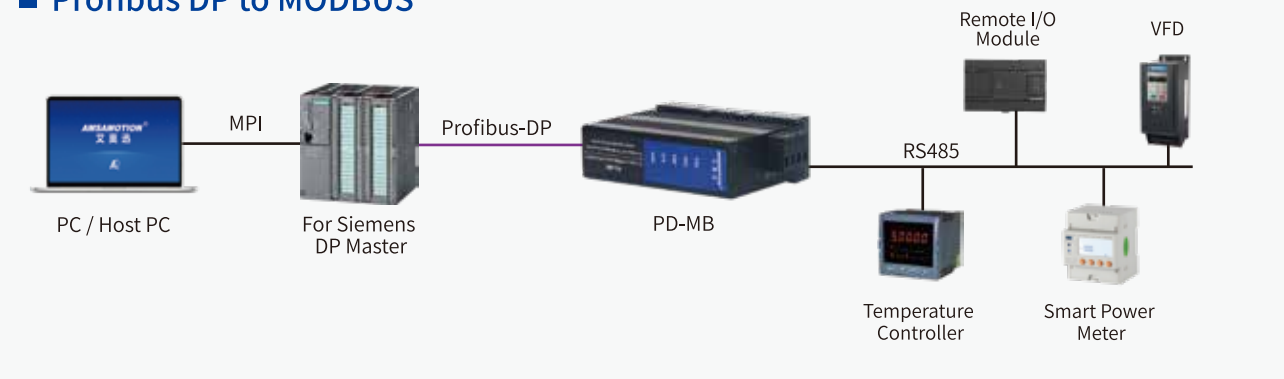
PROFINET to MODBUS



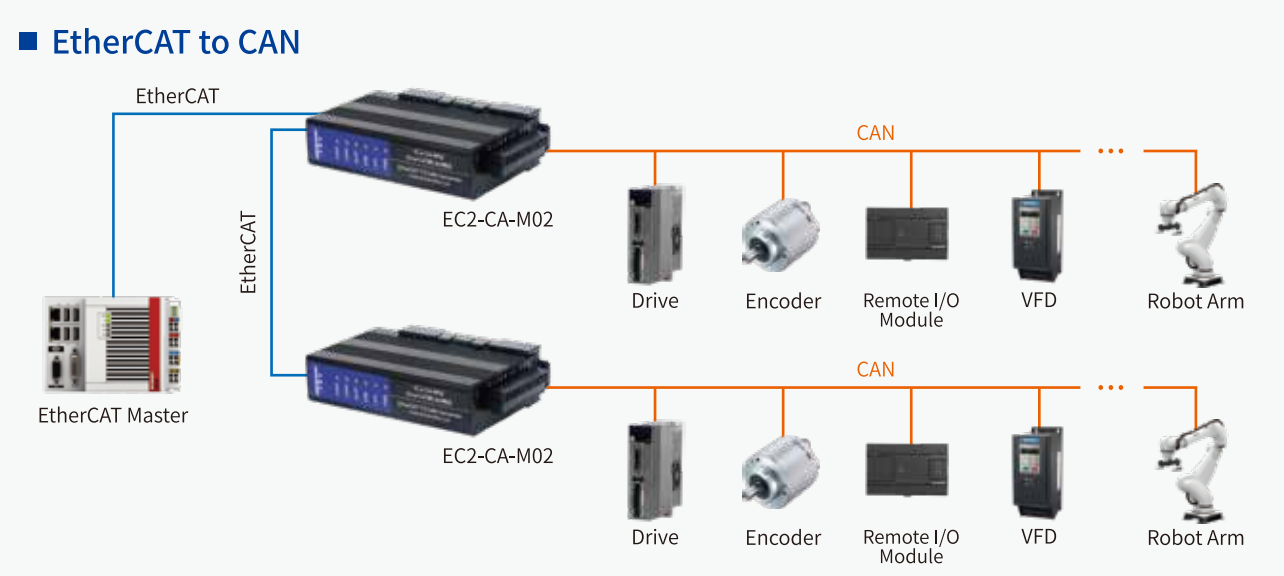
EtherCAT to MODBUS



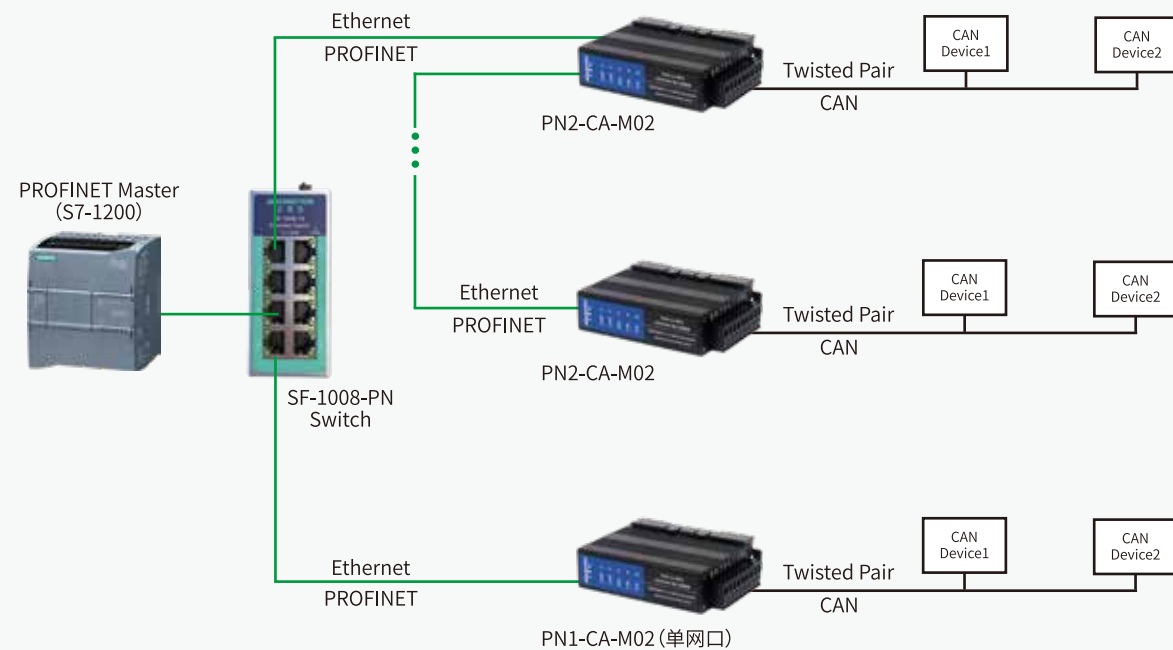
Profibus DP to MODBUS



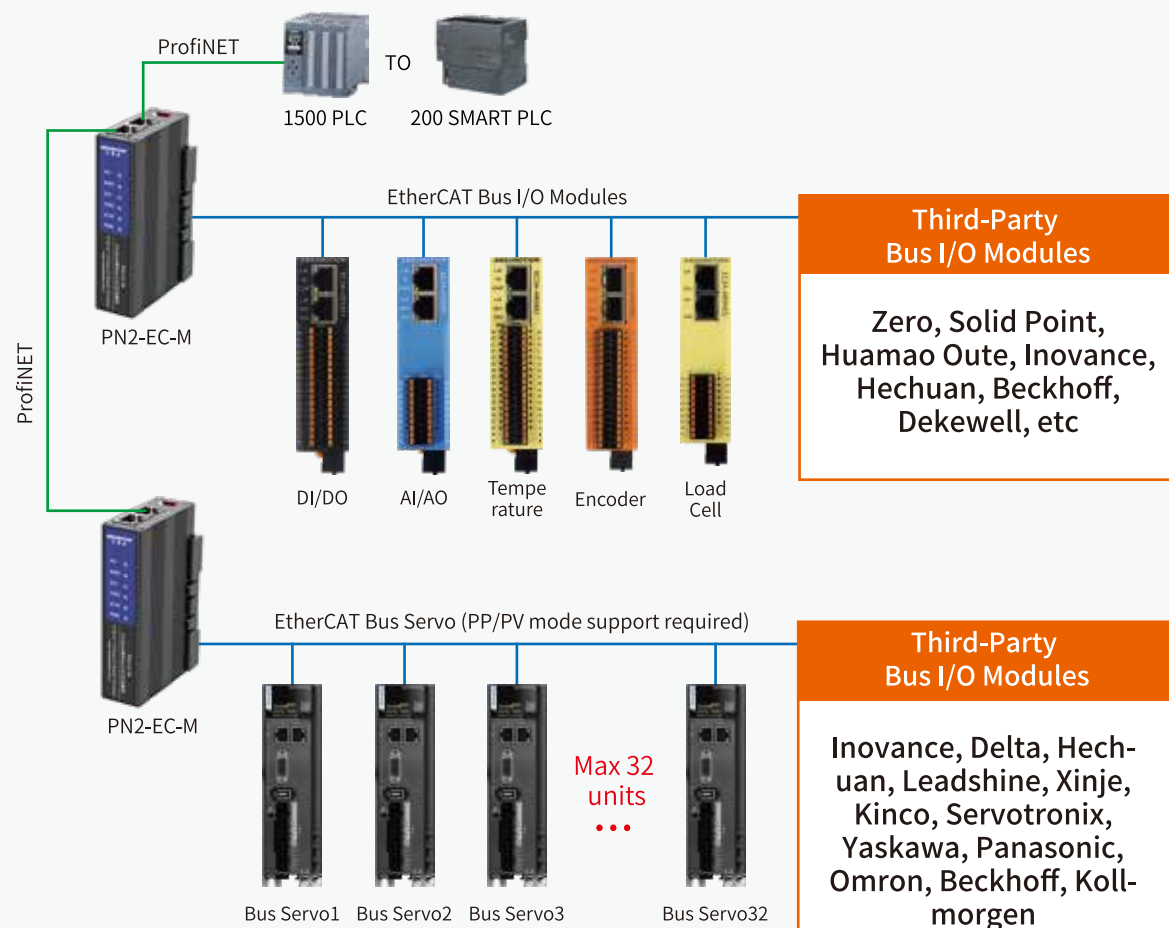
EtherCAT to CAN



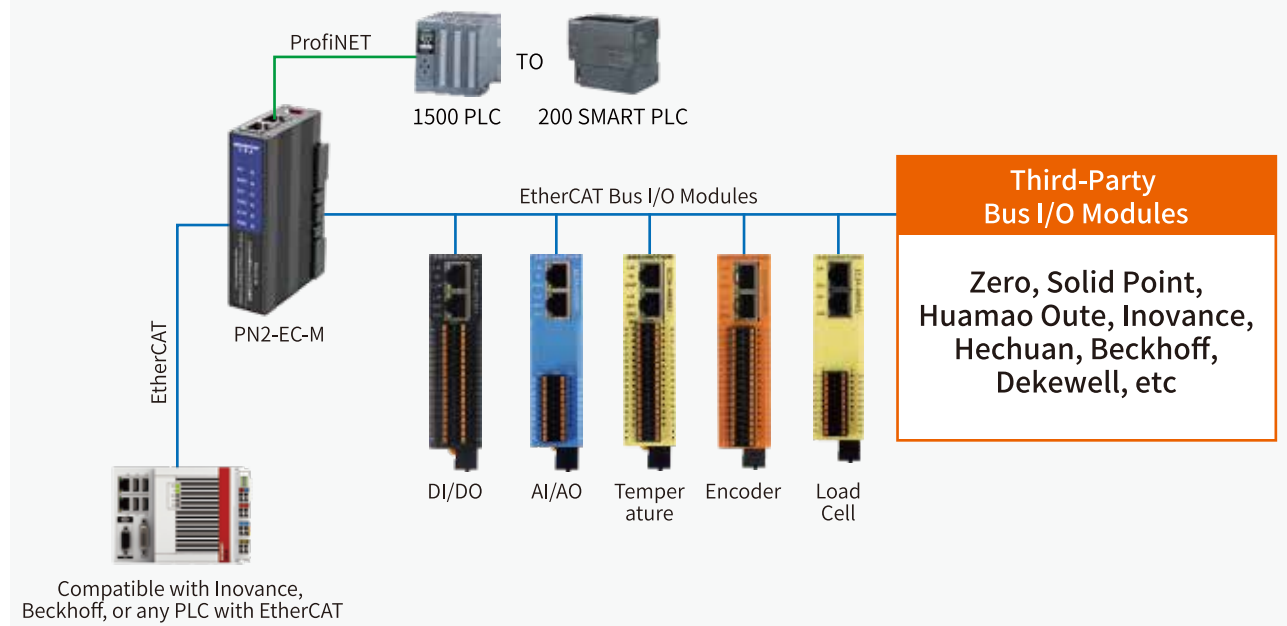
■ PROFINET to CANBUS



■ PROFINET Slave to EtherCAT Master



■ PROFINET Slave to EtherCAT Slave



► Serial Server

▲ Product Overview

Industrial-grade Serial Server supports RS232/485/422 to Ethernet/WiFi bidirectional transparent transmission, compatible with MODBUS RTU/TCP protocol conversion. Enables rapid device-to-cloud connectivity, remote monitoring, and management for serial devices. Supports web configuration, DIN rail mounting, wide voltage power supply, and anti-interference protection. Available in single/multi-channel/wireless models. Ideal for industrial automation, smart instruments, PLC networking, and more – plug-and-play, helping traditional serial devices upgrade to smart connectivity.

▲ Product Features

- ① Serial to Ethernet/WiFi bidirectional data passthrough; supports MODBUS TCP to MODBUS RTU protocol conversion;
- ② Screw terminal serial ports – supports RS485/RS232 (select models include RS422); serial transmission distance up to 1200m;
- ③ 10/100Mbps Ethernet (RJ45); default fixed IP (configurable); supports auto MDI/MDIX;
- ④ Button reset; operating voltage DC 9V~28V (reverse polarity protection);
- ⑤ MQTT support – collects serial MODBUS RTU data via MQTT;
- ⑥ DTU functionality – enables transparent data transmission between remote serial devices.



[Serial Server]

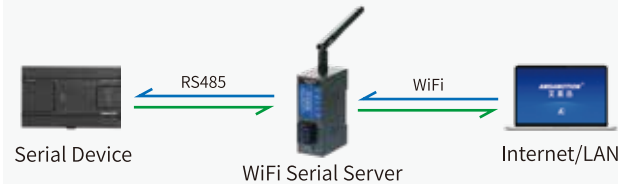
Product Type	Product Model	Product Description
Ethernet Serial Server	RS485-ETH	1 x RS485 to 1 x Ethernet – multi-function serial server
	RS232-ETH	1 x RS232 to 1 x Ethernet – multi-function serial server
	RS232-485-422-ETH	1 x RS232/485/422 to 1 x Ethernet (10/100Mbps full-duplex) serial server; supports MODBUS TCP/RTU conversion, TCP Server/Client passthrough, custom Client passthrough, MODBUS TCP to RTU (advanced/master)
	RS485-ETH-M02	1 x Ethernet (10/100Mbps full-duplex) + 2 x RS485 (screwless terminals); MODBUS TCP to MODBUS RTU bidirectional conversion; 8 operating modes – TCP server/client passthrough, etc
	RS485-ETH-M04	1 x Ethernet (10/100Mbps full-duplex) + 4 x RS485 (screw terminals); MODBUS TCP to MODBUS RTU bidirectional conversion; 8 operating modes – TCP server/client passthrough, etc
	ETH-RS485-M08	1 x Ethernet (10/100M auto-sensing) + 8 x independent RS485 ports; bidirectional transparent transmission between serial and TCP/IP; supports MODBUS TCP/RTU conversion; 8 RS485 ports independently configurable; 9 operating modes – MODBUS conversion, TCP/UDP passthrough, HTTP, MQTT, WebSocket, etc.; built-in dedicated MODBUS TCP to RTU algorithm; single connection controls multiple slaves
Single-Board Serial Server	ETH-RS485-L01	1 x RS485 to 2.4G WiFi – multi-function serial server; AP/STA modes; supports MODBUS TCP/RTU conversion, TCP Server/Client passthrough, MQTT, DTU passthrough
WiFi Serial Server	RS485-WIFI-M01	1 x RS485 to 2.4G WiFi – multi-function serial server; AP/STA modes; supports MODBUS TCP/RTU conversion, TCP Server/Client passthrough, MQTT, DTU passthrough
	RS232-WIFI-M01	1 x RS232 to 2.4G WiFi – multi-function serial server; AP/STA modes; supports MODBUS TCP/RTU conversion, TCP Server/Client passthrough, MQTT, DTU passthrough

▲ Application Scenarios

■ 1 x Ethernet + 8 x independent RS485 – supports MODBUS TCP/RTU bidirectional protocol conversion; each RS485 port operates independently without interference



■ Supports bidirectional transparent transmission between RS232/485 serial and 2.4GHz WiFi; MODBUS TCP/RTU protocol conversion; MQTT and DTU support for remote communication



Note: Supports AP and STA WiFi modes – switch via Reset button or host PC



PLC Series

PLC Series – AMX200-SMART, AMX-200, AMX-1200, AMX-FX3U. Designed for industrial use. Programmable memory for logic, sequence, timing, counting, and arithmetic operations. Digital/analog I/O controls machinery and processes. High reliability, easy programming, strong expandability – core to industrial automation. Widely used in equipment and production line control.

▶ AMX200-SMART Series

▲ Product Overview

AMX200-SMART Series – Self-developed PLC. Compatible with original CPUs, expansion modules, software, and instructions. CPUs/modules can mix with original PLCs. Supports 20/30/40/60-point I/O. Flexible DI/DO, AI/AO, and comm expansion. STEP 7-MicroWIN SMART compatible. Supports function libraries and wizards.



▲ Product Features

- ① Compatible with original CPUs and expansion modules – can be mixed with original PLCs;
- ② Rich lineup with stable performance – DI/DO, AI/AO, and communication expansion modules available;
- ③ Compatible with STEP 7-MicroWIN SMART programming software for configuration;
- ④ Supports function libraries and wizards.

[AMX200-SMART Series]

Product Series	Product Type	Product Model	Product Description
AMX200-SMART PLC	Relay	AMX200-SR20	12 DI / 8 DO (Relay)
		AMX200-SR20XP	12 DI / 8 DO (Relay); 4 AI (0~10V / 0~20mA, 12-bit, Sampling Rate: 50ms, Acc. ±0.08%FS) / 2 AO (0~10V / 0~20mA, 12-bit, Acc. ±0.08%FS)
		AMX200-SR30	18 DI / 12 DO (Relay)
		AMX200-SR30XP	18 DI / 12 DO (Relay); 4 AI (0~10V / 0~20mA, 12-bit, Sampling Rate: 50ms, Acc. ±0.08%FS) / 2 AO (0~10V / 0~20mA, 12-bit, Acc. ±0.08%FS)
		AMX200-SR40	24 DI / 16 DO (Relay)
		AMX200-SR60	36 DI / 24 DO (Relay)
	Transistor	AMX200-ST20	12 DI / 8 DO (Transistor)
		AMX200-ST20XP	12 DI / 8 DO (Transistor); 4 AI (0~10V / 0~20mA, 12-bit, Sampling Rate: 50ms, Acc. ±0.08%FS) / 2 AO (0~10V / 0~20mA, 12-bit, Acc. ±0.08%FS)
		AMX200-ST30	18 DI / 12 DO (Transistor)
		AMX200-ST30XP	18 DI / 12 DO (Transistor); 4 AI (0~10V / 0~20mA, 12-bit, Sampling Rate: 50ms, Acc. ±0.08%FS) / 2 AO (0~10V / 0~20mA, 12-bit, Acc. ±0.08%FS)
		AMX200-ST40	24 DI / 16 DO (Transistor)
		AMX200-ST60	36 DI / 24 DO (Transistor)
AMX200-SMART Expansion Module	DI/DO	AMX-2DE08	8 DI
		AMX-2DE16	16 DI
		AMX-2DR08	8 DO (Relay)
		AMX-2DR16	16 DO (Relay)
		AMX-2DR32	16 DI / 16 DO (Relay)
		AMX-2DT08	8 DO (Transistor)
		AMX-2DT16	8 DI / 8 DO (Transistor)
		AMX-2DT32	16 DI / 16 DO (Transistor)
		AMX-2QR16	16 DO (Relay)
		AMX-2QT16	16 DO (Transistor)
	AI/AO	AMX-3AE04	4 AI (±10V, ±5V, ±2.5V / 0~20mA); 12-bit; Sampling Rate: 20ms; Acc. ±0.08%FS
		AMX-3AE08	8 AI (±10V, ±5V, ±2.5V / 0~20mA); 12-bit; Sampling Rate: 20ms; Acc. ±0.08%FS
		AMX-3AM03	2 AI / 1 AO (±10V, ±5V, ±2.5V / 0~20mA); Input: 12-bit, Sampling Rate: 20ms, Acc. ±0.08%FS; Output: 11-bit, Acc. ±0.08%FS

Product Series	Product Type	Product Model	Product Description
AMX200-SMART Expansion Module	AI/AO	AMX-3AM06	4 AI / 2 AO (±10V, ±5V, ±2.5V / 0~20mA); Input: 12-bit, Sampling Rate: 20ms, Acc. ±0.08%FS; Output: 11-bit, Acc. ±0.08%FS
		AMX-3AQ02	2 AO (±10V / 0~20mA); 11-bit, Acc. ±0.08%FS
		AMX-3AQ04	4 AO (±10V / 0~20mA); 11-bit, Acc. ±0.08%FS
AMX200-SMART Signal Board	Temperature	AMX-3AR02	2 x PT100 inputs, 16-bit (1 sign bit), Acc. ±0.05%FS, Sampling Rate: 20ms
	Communication	SB CM01	1 x RS485 / 1 x RS232; direct connection
		SB CM02	1 x RS485; direct connection
	DI/DO	SB DT04	2 DI / 2 DO (Transistor); direct connection; 24VDC
	AI/AO	SB AE02P	2 AI (0~10V / 0~20mA); 12-bit, Sampling Rate: 500ms, Acc. ±0.08%FS
		SB AE04P	4 AI (0~10V / 0~20mA); 12-bit, Sampling Rate: 500ms, Acc. ±0.08%FS
		SB AQ04P	4 AO (0~10V / 0~20mA); 11-bit, Acc. ±0.08%FS, 24VDC
		SB AM03P	2 AI (0~10V / 0~20mA) / 1 AO (0~10V / 0~20mA); Input: 12-bit, Sampling Rate: 500ms, Acc. ±0.08%FS; Output: 11-bit, Acc. ±0.08%FS
		SB AM04P	2 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Input: 12-bit, Sampling Rate: 500ms, Acc. ±0.08%FS; Output: 11-bit, Acc. ±0.08%FS
		SB AM06P	4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); Input: 12-bit, Sampling Rate: 500ms, Acc. ±0.08%FS; Output: 11-bit, Acc. ±0.08%FS
	4G	SB 4G01	4G communication board – supports remote upload/download and configuration



Agricultural Automation



Industrial Automation



Transportation Systems



Textile Machinery

▶ AMX-1200 Series

AMX-1200 Series expansion modules are compatible with original 1200 series CPUs and are used in the same way as original modules. Can be mixed with original modules. Rich lineup with stable performance – DI/DO and AI/AO, relay and transistor, multiple I/O point options available. Supports TIA Portal programming software configuration.



▲ Product Features

- ① Compatible with original 1200 series CPUs – can be mixed with original modules;
- ② Rich lineup – DI/DO, AI/AO, relay, transistor modules available;
- ③ Supports TIA Portal programming software configuration;
- ④ Stable performance with strong anti-interference.

[AMX-1200 Series]

Product Series	Product Type	Product Model	Product Description
AMX-1200 Expansion Module	DI/DO	AMX-221-1BF32	8 DI
		AMX-221-1BH32	16 DI

Product Series	Product Type	Product Model	Product Description
AMX-1200 Expansion Module	DI/DO	AMX-222-1HF32	8 DO (Relay)
		AMX-222-1BF32	8 DO (Transistor)
		AMX-222-1HH32	16 DO (Relay)
		AMX-222-1BH32	16 DO (Transistor)
		AMX-223-1PH32	8 DI / 8 DO (Relay)
		AMX-223-1BH32	8 DI / 8 DO (Transistor)
		AMX-223-1PL32	16 DI / 16 DO (Relay)
		AMX-223-1BL32	16 DI / 16 DO (Transistor)
	AI/AO	AMX-231-4HD32	4 AI (±10V, ±5V, ±2.5V / 0~20mA or 4~20mA); 12-bit; Sampling Rate: 20ms; Acc. ±0.08%FS
		AMX-231-4HF32	8 AI (±10V, ±5V, ±2.5V / 0~20mA or 4~20mA); 12-bit; Sampling Rate: 20ms; Acc. ±0.08%FS
		AMX-232-4HB32	2 AO (±10V / 0~20mA or 4~20mA); 11-bit; Acc. ±0.08%FS
		AMX-232-4HD32	4 AO (±10V / 0~20mA or 4~20mA); 11-bit; Acc. ±0.08%FS
		AMX-234-4HE32	4 AI / 2 AO (±10V, ±5V, ±2.5V / 0~20mA or 4~20mA); Input: 12-bit, Sampling Rate: 20ms, Acc. ±0.08%FS; Output: 11-bit, Acc. ±0.08%FS



Wastewater



Smart Building



Logistics



Mining

▶ AMX-FX3U Series

▲ Product Overview

AMX-FX3U Series – Self-developed PLC. Compatible with Mitsubishi GX Works2 / GX Developer. Built-in Ethernet + serial. 24/32 DI/DO, 4-ch 100K high-speed counters, 4-ch 100K high-speed pulse, AI/AO directly mapped (no TO/FROM). Expandable up to 7 EM3A modules (DI/DO, AI/AO, temp, load cell). Strong anti-interference, stable – ideal for complex industrial sites.

▲ Product Features

- ① Rich communication interfaces – RS422, RS485, Ethernet; supports MC protocol and MODBUS TCP/RTU;
- ② Built-in AI/AO 0~10V / 0~20mA – addresses directly mapped to PLC registers; no TO/FROM instructions needed;
- ③ Flexible I/O expansion – supports up to 7 DI/DO, AI/AO, temperature, or load cell modules;
- ④ High-precision high-speed counting – AB phase counting error: ±6 per 30,000 pulses;
- ⑤ High-precision pulse output – no step loss.

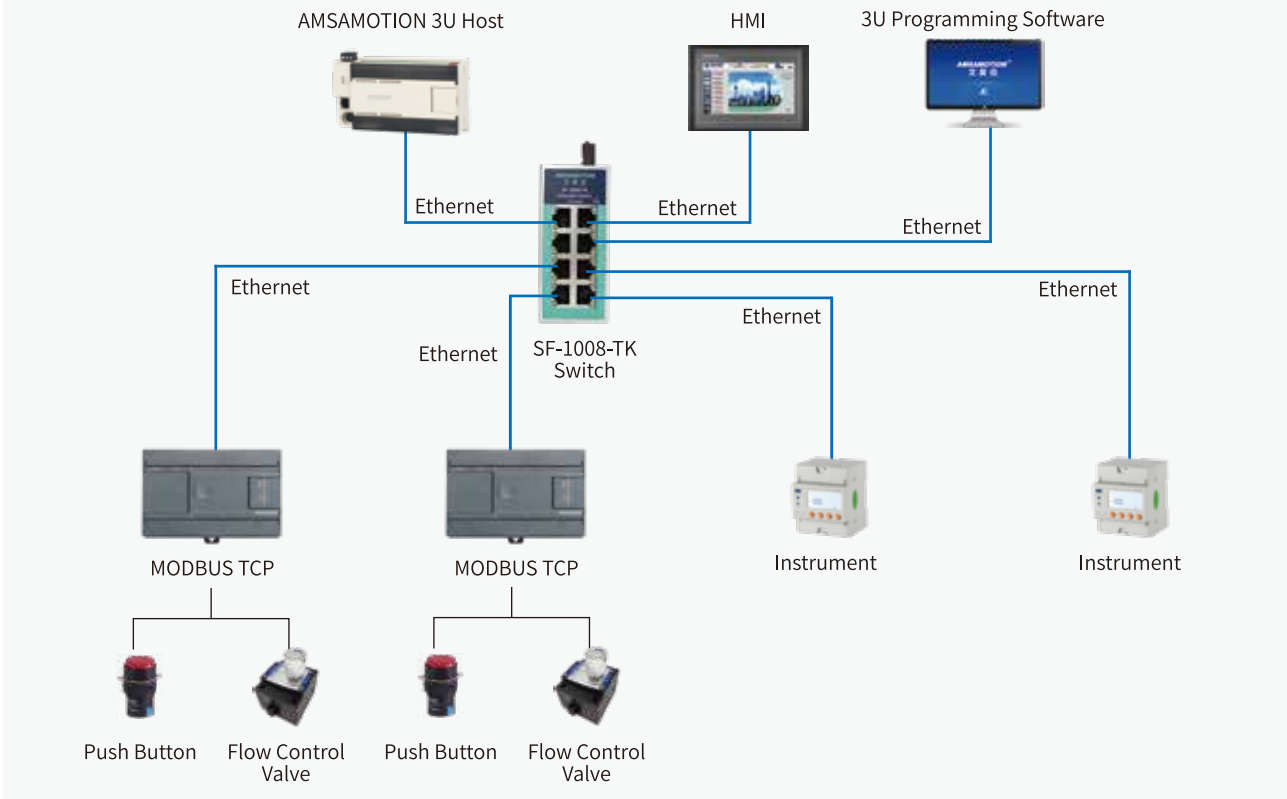


【AMX-FX3U Series】

Product Series	Product Type	Product Model	Product Description
AMX-FX3U Series PLC	Serial Type	AMX-FX3U-14MR-MINI	8 DI / 6 DO (Relay); 2 AI (0~10V / 0~20mA) / 1 AO (0~10V / 0~20mA); 12-bit, Sampling Rate: 400ms; 1 x RS232; 4 high-speed inputs 100K, 2 low-speed inputs 20K
		AMX-FX3U-M26MR	16 DI / 10 DO (Relay); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); 12-bit, Sampling Rate: 400ms; 1 x RS485, 1 x RS422; 4 high-speed outputs 100K, 4 high-speed inputs 100K, 2 low-speed inputs 20K
		AMX-FX3U-M26MT	16 DI / 10 DO (Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); 12-bit, Sampling Rate: 400ms; 1 x RS485, 1 x RS422; 4 high-speed inputs 100K, 2 low-speed inputs 20K
	Ethernet Type	AMX-FX3U-M32MR-E	16 DI / 16 DO (Relay); 2 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); 12-bit, Sampling Rate: 400ms; 1 x RS485, 1 x RS422, 1 x Ethernet; 4 high-speed inputs 100K, 2 low-speed inputs 20K
		AMX-FX3U-M32MT-E	16 DI / 16 DO (Transistor); 2 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); 12-bit, Sampling Rate: 400ms; 1 x RS485, 1 x RS422, 1 x Ethernet; 4 high-speed outputs 100K, 4 high-speed inputs 100K, 2 low-speed inputs 20K
		AMX-FX3U-M26MT-E	16 DI / 10 DO (Transistor); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); 12-bit, Sampling Rate: 400ms; 1 x RS485, 1 x RS422, 1 x Ethernet; 4 high-speed outputs 100K, 4 high-speed inputs 100K, 2 low-speed inputs 20K
		AMX-FX3U-M26MR-E	16 DI / 10 DO (Relay); 4 AI (0~10V / 0~20mA) / 2 AO (0~10V / 0~20mA); 12-bit, Sampling Rate: 400ms; 1 x RS485, 1 x RS422, 1 x Ethernet; 4 high-speed outputs 100K, 2 low-speed inputs 20K
AMX-FX3U Expansion Module	DI/DO	EM3A-IO8R	8 DI / 8 DO, Sampling Rate: 40ms, Filter Time: 3ms
		EM3A-AE8	8 AI (0~10V / 0~20mA); 15-bit, Sampling Rate: 250ms, Acc. ±0.5%FS
	AI/AO	EM3A-AQ8	8 AO (0~10V / 0~20mA); 12-bit, Acc. ±0.8%FS
		EM3A-AM8	4 AI (0~10V / 0~20mA) / 4 AO (0~10V / 0~20mA); 12-bit, Sampling Rate: 40ms, Acc. ±0.8%FS
	Temperature	EM3A-AR8G	8 x PT100 inputs; Resolution: 0.1°C, Acc. ±0.5°C, Sampling Rate: 500ms
		EM3A-AN8	8 x NTC10K inputs; Resolution: 0.1°C, Acc. ±1°C, Sampling Rate: 500ms

▲ Application Scenarios

■ FX3U Series Connection Topology





PLC Accessories Series

PLC Accessories Series – Full-scenario connection, storage, conversion, and support for industrial automation. Complete solutions for PLCs, servos, and control systems.

Product range: Bus connectors/cables, DP cards, PROFINET plugs, S7-200 batteries/memory cards, programming cables, wireless WiFi programmers, DIN rails, isolators, repeater hubs, signal converters, USB-to-serial adapters, power supplies.

Compatible with mainstream standards and multiple brands. High reliability, strong compatibility – ensuring stable operation, easy debugging, and flexible expansion.

► PLC Accessories Series

Product Series	Product Type	Product Model	Product Description	image
Bus Connector	90°	0BA12	90° w/o prog. port, with term. resistor, solid metal	
		0BB12	90° with prog. port, with term. resistor, solid metal	
	35°	0BA41	35° w/o prog. port, with term. resistor, solid metal	
		0BB41	35° with prog. port, with term. resistor, solid metal	
		0BA42	35° w/o prog. port, with term. resistor, solid metal	
		0BB42	35° with prog. port, with term. resistor, solid metal	
Bus Cable	Purple	0EH10	1x2x0.64 / 22AWG; 50/100/200/300/500/1000 m/roll	
		0EH10 (Industrial)	1x2x0.64 / 22AWG; 50/100/200/300/500/1000 m/roll	
	Blue	3EH10	1x2x(19/0.15) 22AWG; 50/100/200/300/500/1000 m/roll	
	Green	2AH10	1x4x0.64 / 22AWG; 50/100/200/300/500/1000 m/roll	
		CCLINK	1x3x(34/0.15) 20AWG; 50/100/200/300/500/1000 m/roll	
	Brown	CCLINK (with Power)	1x3x(34/0.15) 20AWG; 50/100/200/300/500/1000 m/roll	
DP Comm Card	CP15611	1561-1AA01 (1 Slot)	Profibus standard interface: Profibus/MPI/PPI, isolated 9-pin Sub-D socket. Transmission rate: 9.6Kbps~12Mbps; max communication distance complies with Profibus standard.	
		1561-1AA02 (2 Slot)		
Front Connector	20-pin	392-1AJ00	For S7-300/300V modules, 20-pin	
	40-pin	392- 1AM00	For S7-300/300V modules, 40-pin	
S7-200 Battery	PLC Memory Battery	8BA20	For S7-200, 3V, single capacity	
		8BA20-2P	For S7-200, 3V, dual capacity, longer life	
S7-200 Memory Card	Memory Card for S7-200 PLC	8GF23	64K, for CPU 23 edition – programs, data, recipes, logs	
		8GH23	256K, for CPU 23 edition – programs, data, recipes, logs	
Mounting Rail	S7-300 Series	390-1AB60	S7-300 PLC mounting rail, length 160mm	
		390-1AJ30	S7-300 PLC mounting rail, length 830mm	
		390-1AF30	S7-300 PLC mounting rail, length 530mm	
		390-1AE80	S7-300 PLC mounting rail, length 483mm	
	S7-1500 Series	590-1AB60	S7-1500 PLC mounting rail, length 160mm	
		590-1AC40	S7-1500 PLC mounting rail, length 245mm	
		590-1AF30	S7-300 PLC mounting rail, length 530mm	
		590-1AE80	S7-300 PLC mounting rail, length 482mm	
PROFINET Connector	180°	901-1BB10	4-core thick pure copper gold-plated pins, zinc alloy shielded housing, tool-free snap-in, reusable	
		901-1BB11	8-core thick pure copper gold-plated pins, zinc alloy shielded housing, tool-free snap-in, reusable	
	90°	901-1BB20	4-core thick pure copper gold-plated pins, zinc alloy shielded housing, tool-free snap-in, reusable	
Power Supply Board	For S7-200	S7-200 AC (Original)	Relay AC220V, original S7-200 power supply only	
		S7-200 DC (Original)	Transistor DC24V, original S7-200 power supply only	
	For 200SMART	SMART200 AC	Relay AC220V, original	
		SMART200 DC	Transistor DC24V, original	

Product Series	Product Type	Product Model	Product Description	image
Programming Cables	For Siemens PLC	LOGO!PC-CABLE (Serial)	Programming cable for Siemens LOGO	
		LOGO!USB-CABL	Programming cable for Siemens LOGO	
		3CB30	Programming cable for Siemens S7-200 series PLCs; compatible with original functions; supports PPI multi-master and 187.5 baud rate; supports Siemens HMI programming; baud rate selectable via DIP switch; signal opto-isolated; 4.5m	
		3DB30	Programming cable for Siemens S7-200 and SMART200 series PLCs; compatible with original functions; plug-and-play (no driver needed); supports PPI multi-master and 187.5 baud rate; supports Siemens HMI programming; signal magnetic isolated; 4.5m	
		0CA23	Programming cable for Siemens S7-300/400 series PLCs; compatible with original functions; supports MPI/DP multi-master and 1.5M baud rate; supports Siemens HMI programming and host PC communication; signal magnetic isolated; 4.5m	
		0CB20	Programming cable for Siemens S7-200/300/400 series PLCs; compatible with original functions; plug-and-play (no driver needed); supports PPI/MPI/DP multi-master and 1.5M baud rate; supports Siemens HMI programming; signal magnetic isolated; 4.5m	
	For Mitsubishi PLC	USB-SC09-FX	Programming cable for Mitsubishi FX1S/FX1N/FX2N/FX3U/FX3G/FX3GA series PLCs; USB interface, 3m; FTDI chip (UK), gold-plated connector; online monitoring, stable high-speed transmission	
	For Delta PLC	USBACAB230	Programming cable for Delta DVP ES/EH/EC/SA/SE/SV/SS series PLCs; USB interface, 3m; FTDI chip (UK), gold-plated connector; online monitoring, stable high-speed transmission	
	For Panasonic PLC	USB-FP1	Programming cable for Panasonic FP1/FP3/FP5 series PLCs; USB interface, 3m; gold-plated connector, pure copper core, shielded magnetic ring	
		USB-AFC8513	Programming cable for Panasonic FP0/FP2/FP-M/FP-X/FP-XH/FPG/FPZ series PLCs; USB interface, 3m	
	For Xinje PLC	USB-XC	Programming cable for Xinje XC/XD/XL series PLCs; USB interface, 3m	
	For Omron PLC	CQM1-CIF02 (Serial)	Programming cable for Omron CPM1A/CPM2A/CQM1/C200HE/C200HG/C200HX series PLCs; 3m	
		USB-CIF02	Programming cable for Omron CPM1A/CPM2A/CQM1/C200HE/C200HG/C200HX series PLCs; USB interface, 3m	
		CS1W-CN226 (Serial)	Programming cable for Omron CPM2C/CQM1H/CJ1M/CJ1H/CJ1G/CS1W/CS1M/CS1G series PLCs; 3m	
		USB-CN226	Programming cable for Omron CPM2C/CQM1H/CJ1M/CJ1H/CJ1G/CS1W/CS1M/CS1G series PLCs; USB interface, 3m	
	For LG PLC	USB-LG-XGB	Programming cable for LG/LS XGB/XBC/XBM/K7M series PLCs; USB interface, 3m	
Wireless WiFi Programmer	WiFi Module Programming Cable (Local/Remote)	WiFi-FX (R)	Local/remote WiFi programming for Mitsubishi FX1S/FX1N/FX2N/FX3U/FX3G/FX3-GA series PLCs; no driver needed, dedicated host software, built-in antenna, replaces wired cables, remote cross-province communication	
		WiFi-S7-200 (R)	Local/remote WiFi programming for Siemens S7-200 series PLCs; no driver needed, dedicated host software, remote communication & monitoring	
		WIFI-DVP (R)	Local/remote WiFi programming for Delta DVP series PLCs; no driver needed, dedicated host software, remote communication & monitoring	
		WIFI-XC (R)	Local/remote WiFi programming for Xinje XC series PLCs; no driver needed, dedicated host software, remote communication & monitoring	
USB to Serial Converter	USB to Serial Converter	USB-CIF31	Industrial-grade USB to RS232 converter; FTDI chip (UK), gold-plated connector, high-speed stable transmission	
		USB to RS485/422	USB to RS485/422 signal converter; FTDI chip, signal opto-isolated, supports multiple OS, 1.5m	
		USB to RS485/232/422	USB to RS232/485/422 signal converter; FTDI chip, signal opto-isolated, supports multiple OS, 2m	
Isolator	USB Isolator	USB-USB-10W	USB isolator; ADUM3160 chip, full speed up to 12M, max 2000mA current, 10W output, fully isolated	
Repeater Hub	Repeater Hub	RS485 Repeater	Signal extension/amplification; TI chip, max 6M transmission, external power support, signal opto-isolated	
		RS485 Hub	1 x RS485 to 4 x RS485, bidirectional communication, transparent transmission; TI chip, stable and reliable	

Product Series	Product Type	Product Model	Product Description
Servo Communication Cable	For Inovance	Inovance servo SV660N/630P communication download cable	Programming/download cable for Inovance SV660N/630P servo drives; USB-S6-L-T00-3.0
	For Delta	ASDA-B2/AB/A2 servo drive download cable	Programming/download cable for Delta ASDA-B2/AB/A2 servo drives (CN3); ADS-CNUS0A08
Pulse Signal Converter	Pulse Signal Converter	TTL differential to collector high-speed pulse signal conversion	TTL differential to open collector; NPN to PNP, differential to single-ended; high-speed pulse signal conversion module for encoders