



9 Highlights

Card-Type PLC

- Follow IEC-61131 standard and pass CE certification and ISO certification.
- Possess proprietary intellectual property rights and allow to customize PLC.
- Provide remote access to connect PLCs by Haiwell cloud.
- Allow Ethernet port and up to four RS232/RS485 serial ports to work together.
- Support Modbus TCP, Haiwellbus TCP, Modbus RTU/ASCII, Haiwellbus and the free protocol.
- Support motion control including linear interpolation, circular interpolation, origin return, reverse clearance compensation and defining electrical origin.
- Innovative programming software which provides comprehensive simulation including Interpolation and communication.
- Supports Ethernet parallel communication as Modbus TCP master, communicates in parallel with up to 8 clients.
- Connects to Haiwei Cloud, supports custom MQTT data group reporting, realizing fast networking, cloud upload and remote management.

■ Model list ■

■ AC Series Card-type PLC MPU

Model	Specification								Dimension W×H×D(mm)
24VDC	DI	DO	AI	AO	COM Port	4G	Power	Max Units	
AC10S0R	6	4 Relay			TCP+RS485, up to 4		<4.8W	5	 40×95×65
AC10S0T	6	4 Transistor NPN			TCP+RS485, up to 4		<4.8W		
AC10S0P	6	4 Transistor PNP			TCP+RS485, up to 4		<4.8W		
AC16S0R	8	8 Relay			TCP+RS485, up to 4		<4.8W		
AC16S0T	8	8 Transistor NPN			TCP+RS485, up to 4		<4.8W		
AC16S0P	8	8 Transistor PNP			TCP+RS485, up to 4		<4.8W		
AC12M0R	4	4 Relay	2	2	TCP+RS485, up to 4		<3.6W		
AC12M0T	4	4 Transistor NPN	2	2	TCP+RS485, up to 4		<3.6W		
AC12M0P	4	4 Transistor PNP	2	2	TCP+RS485, up to 4		<3.6W		
AC10S0R-G	6	4 Relay			TCP+RS485, up to 4	Built in eSIM	<7.2W		
AC10S0T-G	6	4 Transistor NPN			TCP+RS485, up to 4	Built in eSIM	<7.2W		
AC10S0P-G	6	4 Transistor PNP			TCP+RS485, up to 4	Built in eSIM	<7.2W		
AC16S0R-G	8	8 Relay			TCP+RS485, up to 4	Built in eSIM	<7.2W		
AC16S0T-G	8	8 Transistor NPN			TCP+RS485, up to 4	Built in eSIM	<7.2W		
AC16S0P-G	8	8 Transistor PNP			TCP+RS485, up to 4	Built in eSIM	<7.2W		
AC12M0R-G	4	4 Relay	2	2	TCP+RS485, up to 4	Built in eSIM	<6W		
AC12M0T-G	4	4 Transistor NPN	2	2	TCP+RS485, up to 4	Built in eSIM	<6W		
AC12M0P-G	4	4 Transistor PNP	2	2	TCP+RS485, up to 4	Built in eSIM	<6W		

■ AT Series Card-type PLC MPU

Model	Specification									Dimension WxHxD(mm)
24VDC	DI	DO	AI	AO	High Speed Pulse Input	High Speed Pulse Output	COM Port	Power	Max Units	
AT16S0R	8	8 Relay			2 Channels A/B phase 4points 200K		TCP+485	<4.8W	15	 40×95×65
AT16S0T	8	8 Transistor NPN			2 Channels A/B phase 4points 200K	2 Channels A/B phase 4points 200K	TCP+485	<4.8W		
AT16S0P	8	8 Transistor PNP			2 Channels A/B phase 4points 200K	2 Channels A/B phase 4points 200K	TCP+485	<4.8W		
AT12M0R	4	4 Relay	2	2	1 Channel A/B phase 2points 200K		TCP+485	<3.6W		
AT12M0T	4	4 Transistor NPN	2	2	1 Channel A/B phase 2points 200K	1 Channel A/B phase 2points 200K	TCP+485	<3.6W		
AT12M0P	4	4 Transistor PNP	2	2	1 Channel A/B phase 2points 200K	1 Channel A/B phase 2points 200K	TCP+485	<3.6W		

■ AH Series Card-type PLC MPU

Model	Specification							Dimension W×H×D(mm)
24VDC	DI	DO	High Speed Pulse Input	High Speed Pulse Output	COM Port	Power	Max Units	
AH16S0R	8	8 Relay	4 Channels A/B phase 8points 200K		TCP+485	<4.8W	15	 40×95×65
AH16S0T	8	8 Transistor NPN	4 Channels A/B phase 8points 200K	4 Channels A/B phase 8points 200K	TCP+485	<4.8W		
AH16S0P	8	8 Transistor PNP	4 Channels A/B phase 8points 200K	4 Channels A/B phase 8points 200K	TCP+485	<4.8W		

■ Digital I/O Modules

Model	Specification				Dimension WxHxD(mm)
24VDC	DI	DO	COM Port	Power	
A08DI	8		/	<2.4W	 25×95×65
A08DOR		8 Relay	/	<4.8W	
A08DOT		8 Transistor NPN	/	<4.8W	
A08DOP		8 Transistor PNP	/	<4.8W	
A08XDR	4	4 Relay	/	<2.4W	
A08XDT	4	4 Transistor NPN	/	<2.4W	
A08XDP	4	4 Transistor PNP	/	<2.4W	
A16DI	16		/	<2.4W	 25×95×65
A16DOR		16 Relay	/	<8.4W	
A16DOT		16 Transistor NPN	/	<8.4W	
A16DOP		16 Transistor PNP	/	<8.4W	
A16XDR	8	8 Relay	/	<4.8W	
A16XDT	8	8 Transistor NPN	/	<4.8W	
A16XDP	8	8 Transistor PNP	/	<4.8W	

■ Analog I/O Modules

Model	Specification					Dimension WxHxD(mm)
24VDC	AI	AO	Conversion Accuracy	COM Port	Power	
A04AI	4		12bit	/	<2.4W	 25×95×65
A04AO		4	12bit	/	<2.4W	
A04XA	2	2	12bit	/	<2.4W	
A08AI	8		12bit	/	<2.4W	
A08AO		8	12bit	/	<3.6W	
A08XA	4	4	12bit	/	<3.6W	

■ Load cell module

Model	Specification					Dimension WxHxD(mm)
24VDC	type	Specification	Conversion Accuracy	Power	COM Port	
A01WG	Load cell module	1-channel	24bit	<4.8W	RS485, support remote IO function	 25×95×65
A02WG		2-channel	24bit	<7.2W	/	

■ Temperature I/O Modules

Model	Specification				Dimension WxHxD(mm)
24VDC	Sensor	Conversion Accuracy	COM Port	Power	
A04TC	4 Thermocouple	16bit	/	<2.4W	 25×95×65
A04RC	4 Thermal Resistance	16bit	/	<2.4W	
A08TC	8 Thermocouple	16bit	/	<2.4W	
A04DT	4 Channels digital temperature & humidity sensor	9~12bit	/	<2.4W	

■ Communication I/O Modules

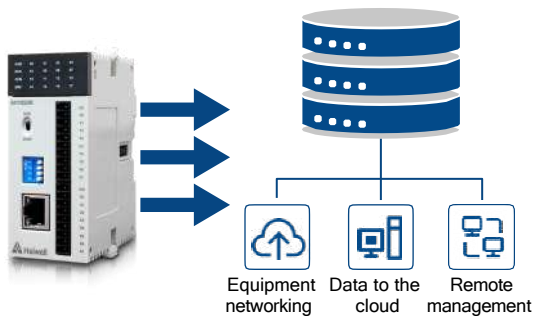
Model	Specification	Power	Dimension(mm) WxHxD
A01RS	With isolation, 1 RS232/RS485 communication port. Supports Modbus RTU/ASCII, Free Protocol, Haiwellbus, 1200~115200bps Supports 8,N,1	<2.4W	 25×95×65

■ Products Features ■



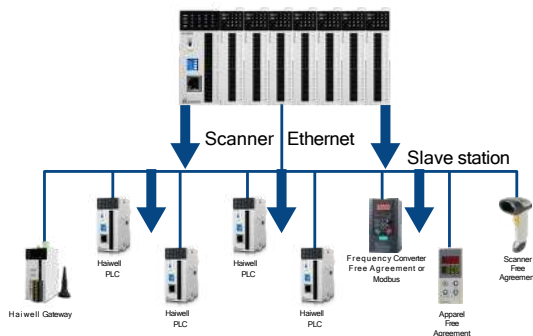
IoT Engine

Supports integration with Haiwell Cloud data center and custom MQTT data group reporting functions, enabling rapid device networking, data upload to the cloud, and remote management.



Parallel communication

Supports Ethernet parallel communication, and when acting as a Modbus TCP master, it can support parallel communication with up to 8 different clients.



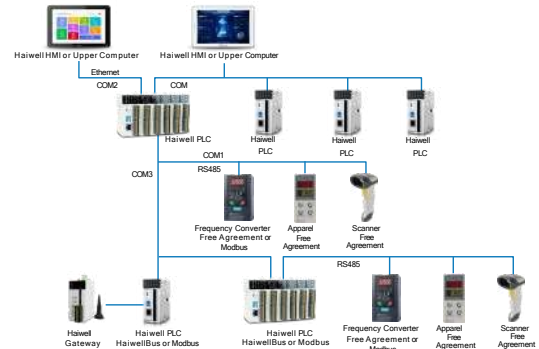
Firmware upgrade function

Supports firmware upgrade for CPU main unit and expansion modules. Free updates provide latest features from Haiwell, enabling continuous device iteration.



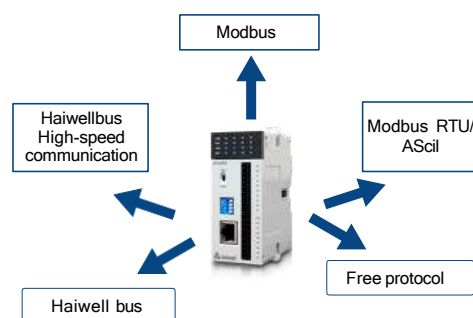
Ethernet+

Supports simultaneous operation of Ethernet and 4 RS232/RS485 ports, enables N:N multi-level networking. The Ethernet interface communicates with other CPU modules, touch panels and computers for easy networking.



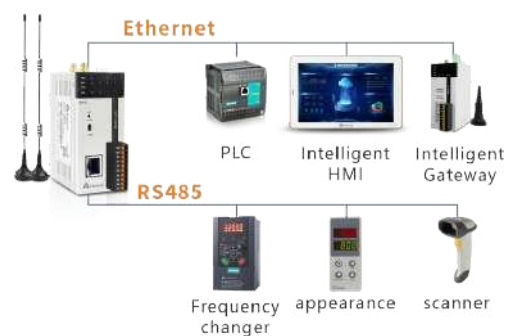
Communication function

Built-in Modbus, Modbus RTU/ASCII, free protocol, Haiwell Bus and Haiwell Bus high-speed protocol, with strong communication compatibility.



Simple And Effective Communication

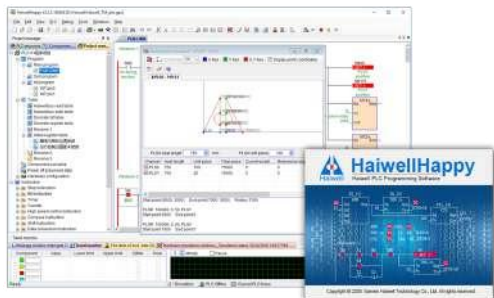
Only one communication command is needed for any protocol, eliminating issues like port conflicts, send/receive control and communication interrupts.





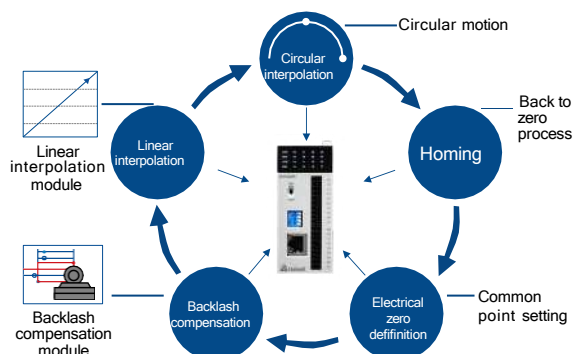
Innovative PLC Instructions

Innovative and powerful instructions one instruction replaces multiple ones on other PLCs, greatly improving programming efficiency and speed.



Motion control

Supports linear interpolation, circular interpolation, homing, backlash compensation, and electrical zero definition.



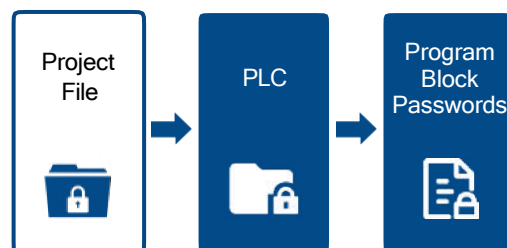
Data security

Cloud server stores no user data. Data can be stored on any designated server, supporting local or public network deployment for secure and controllable management.



Password protection function

Three-level password protection (project file, PLC and program block passwords) and program upload prohibition.





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The parameters of product are subject to changes without prior notice. (Ver. I - 202607)