

Haiwell Products Catalog



- Haiwell Cloud
- PLC Controller
- Load Cell Module
- Human Machine Interface
- Cloud SCADA
- Industrial Panel PC
- Large Screen Controller TV-Box
- 4G Industrial Router G-Box
- Cloud Camera
- Text Display

Xiamen Haiwell Technology Co., Ltd.

Xiamen Haiwell Technology Co.,Ltd was founded in 2005 and has been the global leader in PLC automation control industry. It's a high-tech enterprise, integrating independent research and development, production, sales and services. As one of the earliest participants in the Chinese industrial control market, Haiwell has long been focused on the improvement of automation level in the industrial control field and committed to the research and development of industrial automation core control system, in order to provide the integrated solution for industrial automation equipment manufacturers.

At present, the company's main products include PLC, HMI built-in Ethernet Cloud, Industrial Panel PC, Cloud SCADA software (First permanent free configuration), Haiwell Cloud service, intelligent gateway, wireless communication modules ect. They are widely used in plastic, packaging, textile, food, medical, pharmaceutical, environmental protection, municipal, printing, construction material, elevator, central air conditioning, precise CNC machines and other industrial control field.

Haiwell has been identified as high-tech enterprise, software company and small technology giant enterprise. In strict accordance with the ISO9001 quality system requirements, Haiwell carries out the total quality management from R & D, production to sales, and a full range of products have passed CE, FCC and other certification. We advocate "Quality-oriented, Haiwell soul, Good faith, Continual improvement" and rely on reliable product quality and good after-sales service to win the majority of users recognized, the products have been sold to all over China and overseas, agencies around the users can provide fast service and technical support. Haiwell has complete intellectual property rights over its hardware and software, we can offer customization services to meet the needs of different industries.



Corporate Culture >>

Self-innovation, high-quality

Innovation: Combine traditions of the past with the innovations of the future

Quality: Consistently deliver high performance and highly value user experience

Teamwork: We are one family and collaborate to achieve mutual goals

Haiwell Competitiveness >>

Haiwell is the first company in China who mastered the PLC software 100% simulation technology.

Haiwell is a world leader in the PLC programming software. Haiwell's advanced technologies in PLC communication and analog processing have achieved a certain status and good reputation in the industrial automation control field.

Future Outlook >>

Haiwell will continually develop new products with advanced technology to enable the clients to have excellent user experience in all Haiwell products. Haiwell built its reputation for trust and integrity through an unwavering commitment to helping clients succeed.

Haiwell Certification >>



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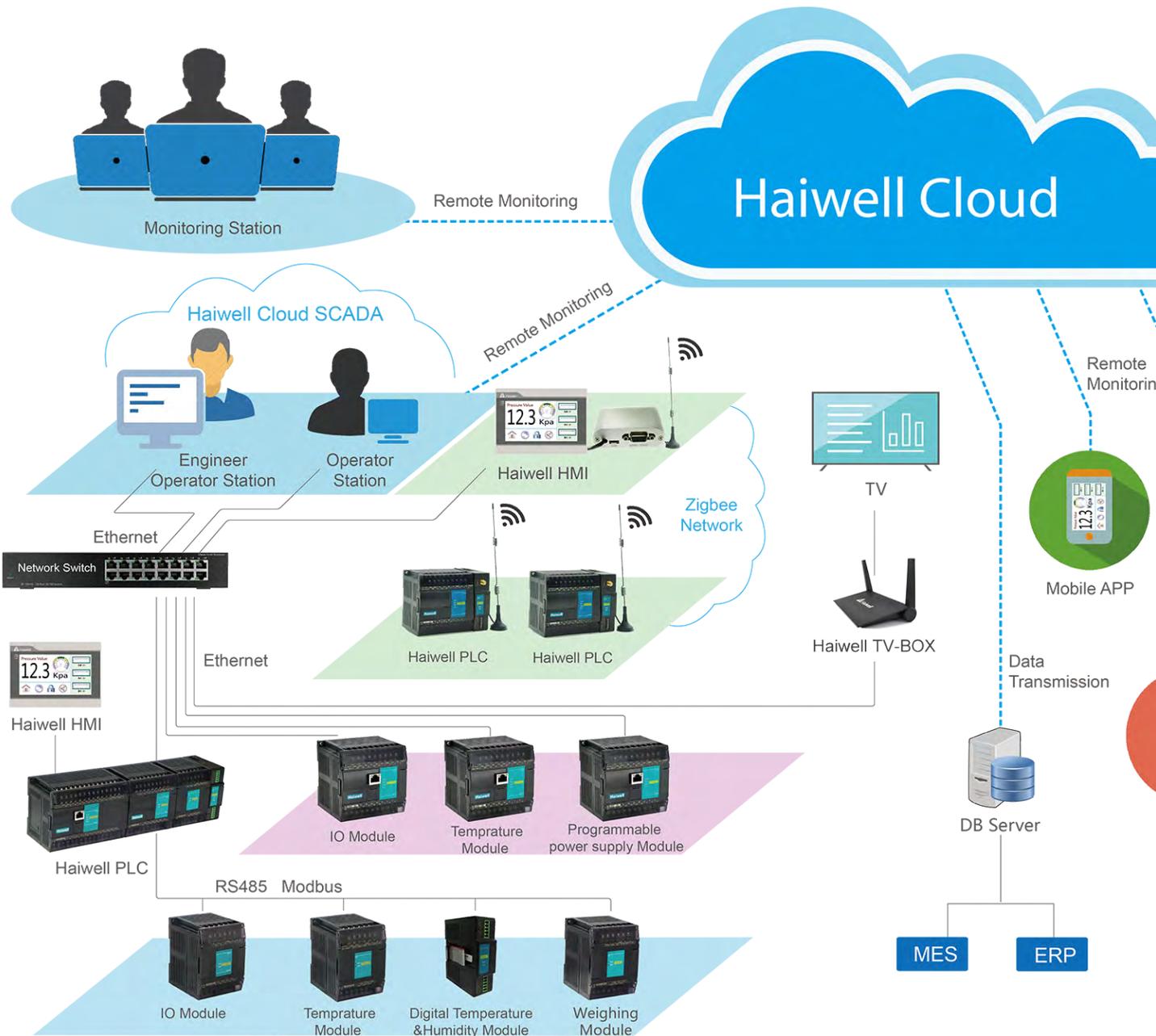


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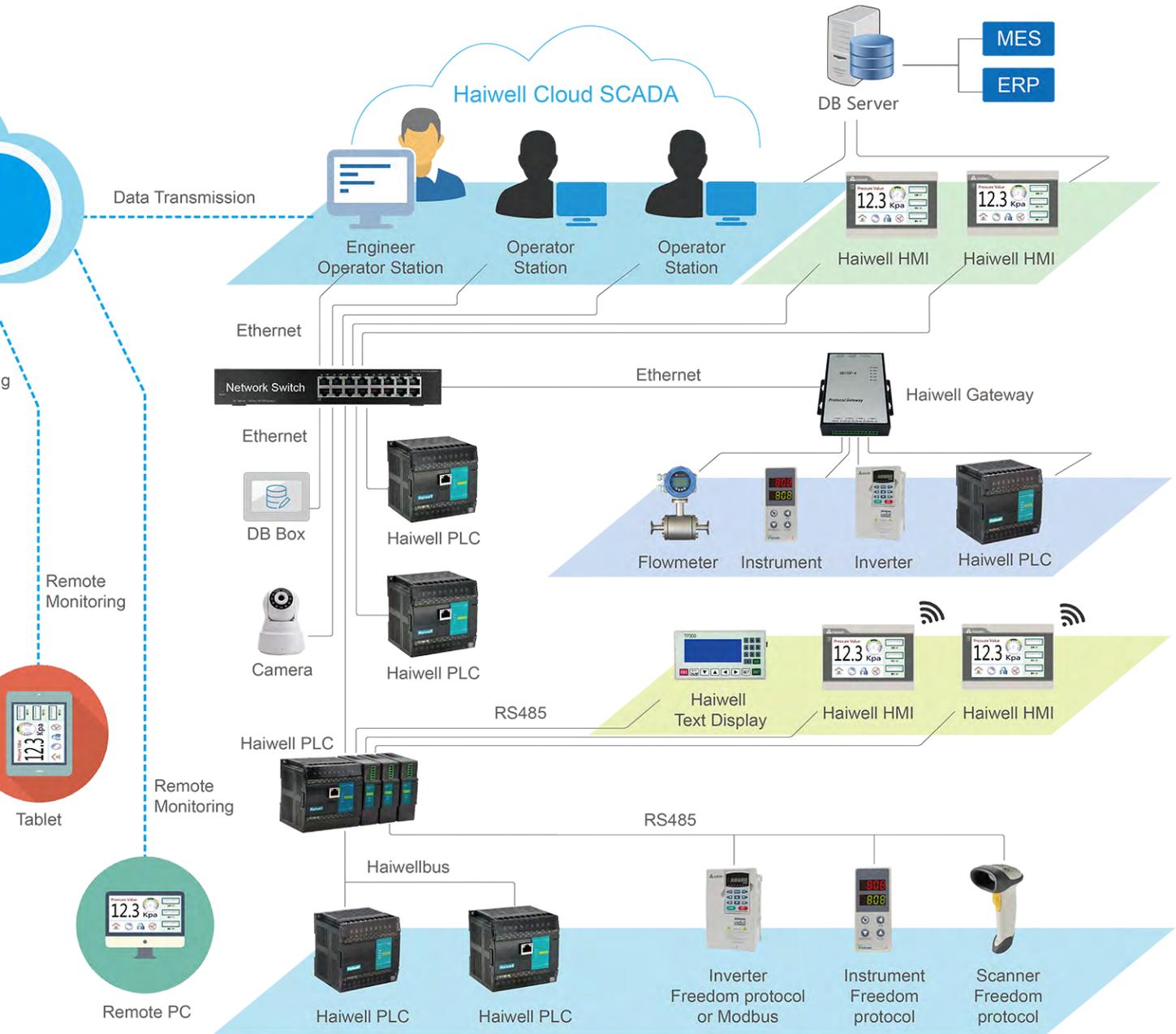
Haiwell Cloud Platform

Haiwell Cloud is a cross-platform IOT cloud platform. It supports PC, iPad, Android, IOS and other terminals. You can visit on-site equipments from a thousand miles away, and realize the remote monitoring and maintaining for HMI and PLC. It supports remote programming, firmware upgrades, monitoring and diagnosis etc.

Haiwell Cloud provides security mechanisms for communication. It is secured by the encryption mechanism of 128-bit SSL, which ensures the stable and safe data transfer. It also uses A-key and B-Key protection mechanism to enable secure remote access to the devices.



Haiwell Cloud Network Diagram



PLC Controller

Haiwell PLC is a versatile high-performance programmable logic controller, which is widely used in plastics, packaging, textiles, food, medical, pharmaceutical, environmental, municipal, printing, building materials, elevators, central air conditioning, numerical control machine tools and other fields of systems and control equipment. In addition to its own various peripheral interfaces (digital input, digital output, analog input, analog output, high-speed counter, high-speed pulse output channels, power supply, communication ports, etc.), it is also expandable with all types of expansion modules for flexible configuration.

Haiwell company owns the 100% independent intellectual property rights over both its hardware and software products, all products can be customized according to customer's requirements to meet the different needs of various industries.



PLC MPU

C Series - Economic PLC (-e : Built-in Ethernet port)

Ethernet Model		Model		Specification				Dimension WxHxD
24V DC	220V AC	24V DC	220V AC	DI	DO	Communication	Max Exp.	
C10S0R-e	C10S2R-e	C10S0R	C10S2R	6	4 Relay	RS232 + RS485	N/A	93×95×82mm
C10S0T-e	C10S2T-e	C10S0T	C10S2T	6	4 Transistor NPN	RS232 + RS485	N/A	
C10S0P-e	C10S2P-e	C10S0P	C10S2P	6	4 Transistor PNP	RS232 + RS485	N/A	
C16S0R-e	C16S2R-e	C16S0R	C16S2R	8	8 Relay	RS232 + RS485	N/A	
C16S0T-e	C16S2T-e	C16S0T	C16S2T	8	8 Transistor NPN	RS232 + RS485	N/A	
C16S0P-e	C16S2P-e	C16S0P	C16S2P	8	8 Transistor PNP	RS232 + RS485	N/A	
C24S0R-e	C24S2R-e	C24S0R	C24S2R	16	8 Relay	RS232 + RS485	N/A	131×95×82mm
C24S0T-e	C24S2T-e	C24S0T	C24S2T	16	8 Transistor NPN	RS232 + RS485	N/A	
C24S0P-e	C24S2P-e	C24S0P	C24S2P	16	8 Transistor PNP	RS232 + RS485	N/A	
C32S0R-e	C32S2R-e	C32S0R	C32S2R	16	16 Relay	RS232 + RS485	N/A	177×95×82mm
C32S0T-e	C32S2T-e	C32S0T	C32S2T	16	16 Transistor NPN	RS232 + RS485	N/A	
C32S0P-e	C32S2P-e	C32S0P	C32S2P	16	16 Transistor PNP	RS232 + RS485	N/A	
C48S0R-e	C48S2R-e	C48S0R	C48S2R	28	20 Relay	RS232 + RS485	N/A	177×95×82mm
C48S0T-e	C48S2T-e	C48S0T	C48S2T	28	20 Transistor NPN	RS232 + RS485	N/A	
C48S0P-e	C48S2P-e	C48S0P	C48S2P	28	20 Transistor PNP	RS232 + RS485	N/A	
C60S0R-e	C60S2R-e	C60S0R	C60S2R	36	24 Relay	RS232 + RS485	N/A	177×95×82mm
C60S0T-e	C60S2T-e	C60S0T	C60S2T	36	24 Transistor NPN	RS232 + RS485	N/A	
C60S0P-e	C60S2P-e	C60S0P	C60S2P	36	24 Transistor PNP	RS232 + RS485	N/A	

- Contain 72 models. MPU Points: 10/16/24/32/48/60;
- Program capacity: 48K steps;
- No extension module function;
- Cost-effective, high-reliability and practical;
- 220VAC or 24VDC power supply;
- Use removable terminal blocks, with the rechargeable battery for saving real-time clock;
- The platform update, using ARM architecture, the processing speed increases more than 10 times;
- COM port: Built-in RS232 and RS485 ports, compatible with Modbus ASCII/RTU Protocol, Free communication Protocol and Haiwellbus high speed Protocol;
- Support Ethernet port and 5 other RS232/RS485 communication ports working simultaneously, support N:N network type.

T Series - Standard PLC (-e : Built-in Ethernet port)

Ethernet Model		Model		Specification						Dimension WxHxD
24V DC	220V AC	24V DC	220V AC	DI	DO	Pulse Input	Pulse Output	Communication	Max Exp.	
T16S0R-e	T16S2R-e	T16S0R	T16S2R	8	8 Relay	2 Channels A/B phase, 4 points 200KHz		RS232 + RS485, Max 5 ports	7	 93×95×82mm
T16S0T-e	T16S2T-e	T16S0T	T16S2T	8	8 Transistor NPN	2 Channels A/B phase, 4 points 200KHz	2 Channels A/B phase, 4 points 200KHz	RS232 + RS485, Max 5 ports	7	
T16S0P-e	T16S2P-e	T16S0P	T16S2P	8	8 Transistor PNP	2 Channels A/B phase, 4 points 200KHz	2 Channels A/B phase, 4 points 200KHz	RS232 + RS485, Max 5 ports	7	
T24S0R-e	T24S2R-e	T24S0R	T24S2R	16	8 Relay	2 Channels A/B phase, 4 points 200KHz		RS232 + RS485, Max 5 ports	7	 131×95×82mm
T24S0T-e	T24S2T-e	T24S0T	T24S2T	16	8 Transistor NPN	2 Channels A/B phase, 4 points 200KHz	2 Channels A/B phase, 4 points 200KHz	RS232 + RS485, Max 5 ports	7	
T24S0P-e	T24S2P-e	T24S0P	T24S2P	16	8 Transistor PNP	2 Channels A/B phase, 4 points 200KHz	2 Channels A/B phase, 4 points 200KHz	RS232 + RS485, Max 5 ports	7	
T32S0R-e	T32S2R-e	T32S0R	T32S2R	16	16 Relay	2 Channels A/B phase, 4 points 200KHz		RS232 + RS485, Max 5 ports	7	 177×95×82mm
T32S0T-e	T32S2T-e	T32S0T	T32S2T	16	16 Transistor NPN	2 Channels A/B phase, 4 points 200KHz	2 Channels A/B phase, 4 points 200KHz	RS232 + RS485, Max 5 ports	7	
T32S0P-e	T32S2P-e	T32S0P	T32S2P	16	16 Transistor PNP	2 Channels A/B phase, 4 points 200KHz	2 Channels A/B phase, 4 points 200KHz	RS232 + RS485, Max 5 ports	7	
T48S0R-e	T48S2R-e	T48S0R	T48S2R	28	20 Relay	2 Channels A/B phase, 4 points 200KHz		RS232 + RS485, Max 5 ports	7	 177×95×82mm
T48S0T-e	T48S2T-e	T48S0T	T48S2T	28	20 Transistor NPN	2 Channels A/B phase, 4 points 200KHz	2 Channels A/B phase, 4 points 200KHz	RS232 + RS485, Max 5 ports	7	
T48S0P-e	T48S2P-e	T48S0P	T48S2P	28	20 Transistor PNP	2 Channels A/B phase, 4 points 200KHz	2 Channels A/B phase, 4 points 200KHz	RS232 + RS485, Max 5 ports	7	
T60S0R-e	T60S2R-e	T60S0R	T60S2R	36	24 Relay	2 Channels A/B phase, 4 points 200KHz		RS232 + RS485, Max 5 ports	7	 177×95×82mm
T60S0T-e	T60S2T-e	T60S0T	T60S2T	36	24 Transistor NPN	2 Channels A/B phase, 4 points 200KHz	2 Channels A/B phase, 4 points 200KHz	RS232 + RS485, Max 5 ports	7	
T60S0P-e	T60S2P-e	T60S0P	T60S2P	36	24 Transistor PNP	2 Channels A/B phase, 4 points 200KHz	2 Channels A/B phase, 4 points 200KHz	RS232 + RS485, Max 5 ports	7	

- Contain 60 models, the total of 16 points,24 points,32 points,48 points,60 points are optional;
- supports 2-channel duplex high-speed (200KHz) pulse input, supports 2-channel duplex high-speed (200KHz) pulse output;
- Adopts detachable terminal wiring, and it adds rechargeable battery which is used to keep real-time clock;
- The control points, program capacity and RAM component count has increased greatly;
- Modifies command algorithm, and adds new instructions;
- Supports communication format of N,8,1 RTU, and baud rate 115200;
- Users can record and search system fault by SV817~SV832;
- Support Ethernet port and 5 other RS232/RS485 communication ports working simultaneously, support N:N network type.

Haiwell PLC Panel



H Series - High Performance PLC (-e : Built-in Ethernet port)

Ethernet Model		Model		Specification						Dimension WxHxD
24V DC	220V AC	24V DC	220V AC	DI	DO	Pulse Input	Pulse Output	Communication	Max Exp.	
H16S0R-e	H16S2R-e	H16S0R	H16S2R	8	8 Relay	4 Channels A/B phase, 8 points 200KHz		RS232 + RS485, Max 5 ports	7	 93×95×82mm
H16S0T-e	H16S2T-e	H16S0T	H16S2T	8	8 Transistor NPN	4 Channels A/B phase, 8 points 200KHz	4 Channels A/B phase, 8 points 200KHz	RS232 + RS485, Max 5 ports	7	
H16S0P-e	H16S2P-e	H16S0P	H16S2P	8	8 Transistor PNP	4 Channels A/B phase, 8 points 200KHz	4 Channels A/B phase, 8 points 200KHz	RS232 + RS485, Max 5 ports	7	
H24S0R-e	H24S2R-e	H24S0R	H24S2R	12	12 Relay	4 Channels A/B phase, 8 points 200KHz		RS232 + RS485, Max 5 ports	7	
H24S0T-e	H24S2T-e	H24S0T	H24S2T	12	12 Transistor NPN	4 Channels A/B phase, 8 points 200KHz	4 Channels A/B phase, 8 points 200KHz	RS232 + RS485, Max 5 ports	7	
H24S0P-e	H24S2P-e	H24S0P	H24S2P	12	12 Transistor PNP	4 Channels A/B phase, 8 points 200KHz	4 Channels A/B phase, 8 points 200KHz	RS232 + RS485, Max 5 ports	7	
H32S0R-e	H32S2R-e	H32S0R	H32S2R	16	16 Relay	4 Channels A/B phase, 8 points 200KHz		RS232 + RS485, Max 5 ports	7	 131×95×82mm
H32S0T-e	H32S2T-e	H32S0T	H32S2T	16	16 Transistor NPN	4 Channels A/B phase, 8 points 200KHz	4 Channels A/B phase, 8 points 200KHz	RS232 + RS485, Max 5 ports	7	
H32S0P-e	H32S2P-e	H32S0P	H32S2P	16	16 Transistor PNP	4 Channels A/B phase, 8 points 200KHz	4 Channels A/B phase, 8 points 200KHz	RS232 + RS485, Max 5 ports	7	
H40S0R-e	H40S2R-e	H40S0R	H40S2R	20	20 Relay	4 Channels A/B phase, 8 points 200KHz		RS232 + RS485, Max 5 ports	7	
H40S0T-e	H40S2T-e	H40S0T	H40S2T	20	20 Transistor NPN	4 Channels A/B phase, 8 points 200KHz	4 Channels A/B phase, 8 points 200KHz	RS232 + RS485, Max 5 ports	7	
H40S0P-e	H40S2P-e	H40S0P	H40S2P	20	20 Transistor PNP	4 Channels A/B phase, 8 points 200KHz	4 Channels A/B phase, 8 points 200KHz	RS232 + RS485, Max 5 ports	7	
H60S0R-e	H60S2R-e	H60S0R	H60S2R	36	24 Relay	4 Channels A/B phase, 8 points 200KHz		RS232 + RS485, Max 5 ports	7	 177×95×82mm
H60S0T-e	H60S2T-e	H60S0T	H60S2T	36	24 Transistor NPN	4 Channels A/B phase, 8 points 200KHz	4 Channels A/B phase, 8 points 200KHz	RS232 + RS485, Max 5 ports	7	
H60S0P-e	H60S2P-e	H60S0P	H60S2P	36	24 Transistor PNP	4 Channels A/B phase, 8 points 200KHz	4 Channels A/B phase, 8 points 200KHz	RS232 + RS485, Max 5 ports	7	

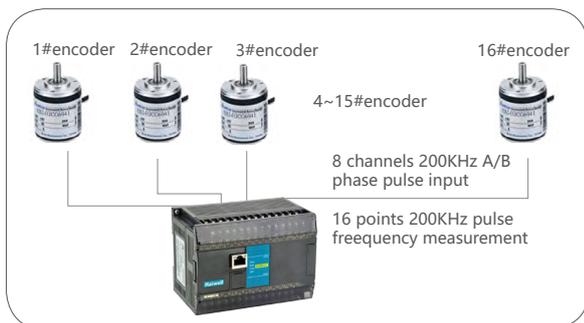
- MPU Points: 16/24/32/40/60;
- Program capacity: 48K steps;
- Expandable to Max. 7 Modules;
- 220VAC or 24VDC power supply;
- Use removable terminal blocks and use the rechargeable battery for saving real-time clock;
- The platform update, using ARM+FPGA architecture, the processing speed increases more than 10 times;
- 4 groups of AB phase 200KHz pulse output; 4 channels of 200KHz pulse input;
- COM port: Built-in RS232 and RS485 ports, compatible with Modbus ASCII/RTU Protocol, up to 5 communication ports and up to 7 non-communication modules;
- Support Ethernet port and 5 other RS232/RS485 communication ports working simultaneously, support N:N network type.

N Series - Motion Control PLC (-e : Built-in Ethernet port)

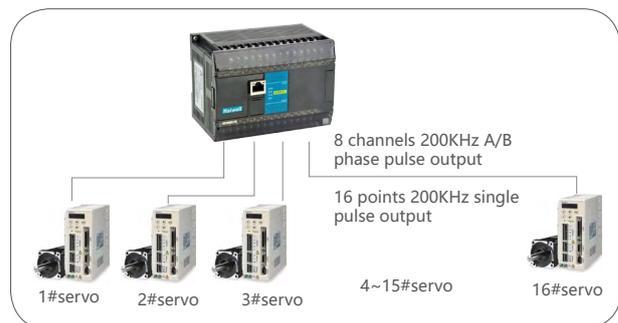
Ethernet Model		Model		Specification						Dimension WxHxD
24V DC	220V AC	24V DC	220V AC	DI	DO	Pulse Input	Pulse Output	Communication	Max. Exp.	
N16S0T-e	N16S2T-e	N16S0T	N16S2T	8	8 Transistor NPN	4 Channels A/B phase, 8 points 200KHz	4 Channels A/B phase, 8 points 200KHz	RS232 + RS485, Max 5 ports	7	93×95×82mm
N16S0P-e	N16S2P-e	N16S0P	N16S2P	8	8 Transistor PNP	4 Channels A/B phase, 8 points 200KHz	4 Channels A/B phase, 8 points 200KHz	RS232 + RS485, Max 5 ports	7	
N24S0T-e	N24S2T-e	N24S0T	N24S2T	12	12 Transistor NPN	6 Channels A/B phase, 12 points 200KHz	6 Channels A/B phase, 12 points 200KHz	RS232 + RS485, Max 5 ports	7	
N24S0P-e	N24S2P-e	N24S0P	N24S2P	12	12 Transistor PNP	6 Channels A/B phase, 12 points 200KHz	6 Channels A/B phase, 12 points 200KHz	RS232 + RS485, Max 5 ports	7	
N40S0T-e	N40S2T-e	N40S0T	N40S2T	20	20 Transistor NPN	8 Channels A/B phase, 16 points 200KHz	8 Channels A/B phase, 16 points 200KHz	RS232 + RS485, Max 5 ports	7	131×95×82mm
N40S0P-e	N40S2P-e	N40S0P	N40S2P	20	20 Transistor PNP	8 Channels A/B phase, 16 points 200KHz	8 Channels A/B phase, 16 points 200KHz	RS232 + RS485, Max 5 ports	7	
N60S0T-e	N60S2T-e	N60S0T	N60S2T	36	24 Transistor NPN	8 Channels A/B phase, 16 points 200KHz	8 Channels A/B phase, 16 points 200KHz	RS232 + RS485, Max 5 ports	7	177×95×82mm
N60S0P-e	N60S2P-e	N60S0P	N60S2P	36	24 Transistor PNP	8 Channels A/B phase, 16 points 200KHz	8 Channels A/B phase, 16 points 200KHz	RS232 + RS485, Max 5 ports	7	

- The total of 32 models: 16 points, 24points to the host, 40 points, 60 points are optional;
- Support linear interpolation, ARC interpolation, Synchronism pulse output;
- Support absolute address, relative address, Support backlash compensation
- Support electric original point redefine etc.
- The platform update, using ARM+FPGAarchitecture, the speed increase more than 10 times;
- The single support 16 points (8 200KHZ,16 bit high speed pulse input) (8 200KHZ high speed pulse output);
- It comes with 2 communication ports(RS232+RS485), which can extend 3 communication port, 5 port can programmingand network communication;
- Equipped with a removable terminal,increase the rechargeable battery for storing real-time clock;
- The capacity of 48K program;
- The largest expansion of 7 modules;
- The external power supply 220VAC or 24VDC optional;
- Support Ethernet port and 5 other RS232/RS485 communication ports working simultaneously, support N:N network type.

Haiwell PLC with 16 encoders



Haiwell PLC with 16 servos



PLC Expansion

Digital I/O Modules (-e : Built-in Ethernet port)

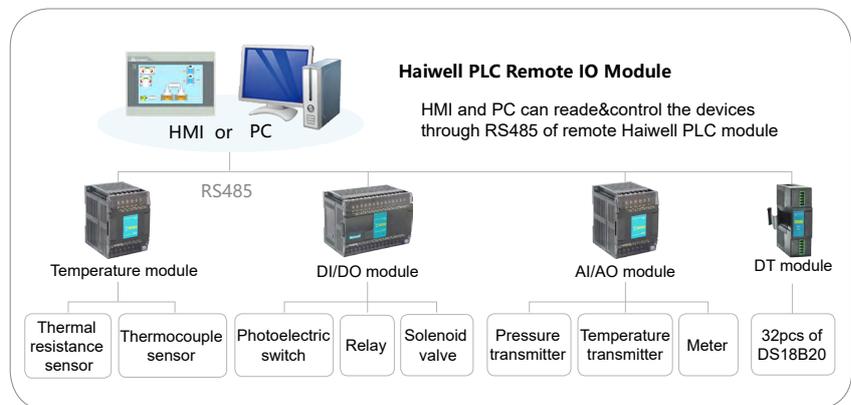
		Model		Specification			Dimension WxHxD
24V DC	220V AC	24V DC	220V AC	DI	DO	Communication	
		H08DI		8			 30×95×82mm
		H08DOR			8 Relay		
		H08DOT			8 Transistor NPN		
		H08DOP			8 Transistor PNP		
		H08XDR		4	4 Relay		
		H08XDT		4	4 Transistor NPN		
		H08XDP		4	4 Transistor PNP		
		H16DI		16		RS485, supports remote function	 70×95×82mm
		H16DOR			16 Relay	RS485, supports remote function	
		H16DOT			16 Transistor NPN	RS485, supports remote function	
		H16DOP			16 Transistor PNP	RS485, supports remote function	
		H16XDR		8	8 Relay	RS485, supports remote function	
		H16XDT		8	8 Transistor NPN	RS485, supports remote function	
		H16XDP		8	8 Transistor PNP	RS485, supports remote function	
H24DI-e	H24DI2-e	H24DI	H24DI2	24		RS485, supports remote function	 93×95×82mm
H24XDR-e	H24XDR2-e	H24XDR	H24XDR2	12	12 Relay	RS485, supports remote function	
H24XDT-e	H24XDT2-e	H24XDT	H24XDT2	12	12 Transistor NPN	RS485, supports remote function	
H24XDP-e	H24XDP2-e	H24XDP	H24XDP2	12	12 Transistor PNP	RS485, supports remote function	
H40DI-e	H40DI2-e	H40DI	H40DI2	40		RS485, supports remote function	 131×95×82mm
H36DOR-e	H36DOR2-e	H36DOR	H36DOR2		36 Relay	RS485, supports remote function	
H36DOT-e	H36DOT2-e	H36DOT	H36DOT2		36 Transistor NPN	RS485, supports remote function	
H36DOP-e	H36DOP2-e	H36DOP	H36DOP2		36 Transistor PNP	RS485, supports remote function	
H40XDR-e	H40XDR2-e	H40XDR	H40XDR2	20	20 Relay	RS485, supports remote function	 177×95×82mm
H40XDT-e	H40XDT2-e	H40XDT	H40XDT2	20	20 Transistor NPN	RS485, supports remote function	
H40XDP-e	H40XDP2-e	H40XDP	H40XDP2	20	20 Transistor PNP	RS485, supports remote function	
H64XDR-e	H64XDR2-e	H64XDR	H64XDR2	32	32 Relay	RS485, supports remote function	
H64XDT-e	H64XDT2-e	H64XDT	H64XDT2	32	32 Transistor NPN	RS485, supports remote function	
H64XDP-e	H64XDP2-e	H64XDP	H64XDP2	32	32 Transistor PNP	RS485, supports remote function	

- MPU Points: 8/16/24/36/40/64;
- It can be used as extension module for any Haiwell PLC
- 8-point, 16-point digital modules only support 24VDC, digital modules with more than 16-point support both 24VDC and 220VAC power supply;
- Digital modules with more than 8-point have RS485 port, support stand-alone use and can also be used for Remote IO;
- Expansion modules with Ethernet port and RS485 port, can be remote IO unit by distributed installation.

Remote IO Functions

All Haiwell PLC expansion modules which designed with RS485 port are support remote IO functions. It support parallel bus and serial bus, can work with PLC host or running independently. When using as remote IO modules, it can be insatalled independently without PLC system points limitation.

Long distance. Fexible configuration. Low cost.



Analog I/O Modules (-e : Built-in Ethernet port)

Ethernet Model		Model		Specification				Dimension WxHxD
24V DC	220V AC	24V DC	220V AC	AI	AO	Conversion Accuracy	Communication	
		S04AI	S04AI2	4		12 bits	RS485, supports remote function	 70×95×82mm
		S04AO	S04AO2		4	12 bits	RS485, supports remote function	
		S04XA	S04XA2	2	2	12 bits	RS485, supports remote function	
S08AI-e	S08AI2-e	S08AI	S08AI2	8		12 bits	RS485, supports remote function	 93×95×82mm
S08AO-e	S08AO2-e	S08AO	S08AO2		8	12 bits	RS485, supports remote function	
S08XA-e	S08XA2-e	S08XA	S08XA2	4	4	12 bits	RS485, supports remote function	

- Contain 20 types, can be classified by 4-point and 8-point.
- Signal types: current or voltage, a variety of optional signal range.
- Analog AI/AO support 6 types of signals: [4,20]mA, [0,20]mA, [1,5]V, [0,5]V, [0,10]V, [-10,10]V.
- Hardware conversion accuracy: 12 A/D conversion hardware, range: 0~32000.
- Comes with a RS485 communication port, which can be use for remote I/O.
- It can be used as expansion module for any host.
- Expansion modules with Ethernet port and RS485 port, can be remote IO unit by distributed installation.

Temperature & Humidity Modules (-e : Built-in Ethernet port)

Ethernet Model		Model		Specification			Dimension WxHxD
24V DC	220V AC	24V DC	220V AC	Sensor	Conversion accuracy	Communication	
		H04DT		4 Channels DS18B20, RW1820 temperature sensor, DS1990 sensor or SHT1x, SHT7x temperature & humidity sensor	9~12 bits	/	 30×95×82mm
		H32DT		32 Channels DS18B20, RW1820 temperature sensor, DS1990 sensor	9~12 bits	RS485, supports remote function	
		H04RC	H04RC2	4 thermal resistance	16 bits	RS485, supports remote function	 70×95×82mm
		H04TC	H04TC2	4 thermocouple	16 bits	RS485, supports remote function	
		H08TC	H08TC2	8 thermocouple	16 bits	RS485, supports remote function	
H08RC-e	H08RC2-e	H08RC	H08RC2	8 thermal resistance	16 bits	RS485, supports remote function	 93×95×82mm

- Contain 12 types, can be divided into thermal resistance, thermocouple and DS18B20 temperature sensor module;
- Thermal Resistance kinds: PT100, PT1000, Cu50, Cu100;
- Thermocouple kinds: S, K, T, E, J, B, N, R, Wre3/25, Wre5/26, [0,20]mV, [0,50]mV, [0,100]mV;
- Come with a RS485 communication port, which can be use for remote I/O;
- Hardware conversion accuracy: 16-bit A/D conversion hardware.
- Expansion modules with Ethernet port and RS485 port, can be remote IO unit by distributed installation.

DT Series Digital Temperature & Humidity Module

Model	Specification	COM Port	Dimension WxHxD
H04DT	4 Channels DS18B20, RW1820 temperature sensor, DS1990 sensor or SHT1x, SHT7x temperature & humidity sensor	/	30*95*82mm
H32DT	32 Channels DS18B20, RW1820 temperature sensor, DS1990 sensor	RS485, supports remote function	30*95*82mm

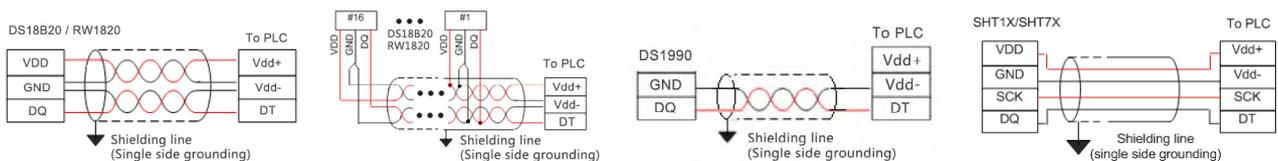
H04DT: it can measure the temperature and humidity at the same time. It can be used to accurately measure the temperature and humidity within 200 meters, furthermore, the collection of temperature and humidity values without error, low cost.

H32DT: supports remote function, it can be used as remote IO module. And it is widely used in coal mines, tunnels, freezing, libraries, archives and other multi-point temperature measurement environment and other environmental monitoring system.



ITEM	H04DT	H32DT
Input interface	SHT1x / SHT7x / DS18B20 / RW1820 sensor	DS18B20, RW1820 sensor
Input Quantity	4 Channels 4 points	2 channels, each channel 16points
Communication interface	N/A	RS485
Communication speed	N/A	2400~115200bps baud rate
Communication protocol	N/A	standard Modbus
Power supply mode	PLC host internal power supply	PLC host internal power supply, or independent external supply of 24VDC
Measured distance	≤200m (wire resistance 50Ω)	≤500m (wire resistance 50Ω)
Measured range	DS18B20 / RW1820 : -55 ~ +125°C SHT1x / SHT7x : -40 ~ 123.8°C 0~100%RH	-55 ~ +125°C
Isolation type	No isolation between channels. Analog & Digital optical isolation	No isolation between channels. Analog & Digital optical isolation

Wiring Diagram



Products Environment Specification

- Operating Temperature: 0~+55°C storage temperature -25~+70°C
- Operating Humidity: 5~95%RH, without condensation
- Anti-vibration Ability: 10~57Hz amplitude 0.075mm, 57Hz~150Hz acceleration 1G, each 10 times for three-axis direction of X,Y,Z
- Anti-shock Ability: 15G, last 11ms, each 6 times for three-axis direction of X,Y,Z
- Anti-jamming Ability: DC EFT ±2500V, surge ±1000V
- Anti-voltage Endurance Ability: DC terminal to ground terminal 500VAC, 1 minute
- Insulation Resistance: over 5MΩ (all input / output points to time 500VDC)
- Operating Environment: dust proof, moisture proof, anti-corrosion, avoid electric shock and external shocks etc.

Functional Modules (-e : Built-in Ethernet port)

Ethernet Model	Model	Specification				Dimension WxHxD
		Type	Specification	Conversion Accuracy	Communication	
24V DC	24V DC					
H02PW-e	H02PW	Programmable Power Module	2 channels programmed control DC constant voltage / constant current output, with current and voltage measurement	16 bits	RS485, supports remote function	 93×95×82mm
	H01WG	Load Cell Module	1 channel weighing	24 bits	RS485, supports remote function	 30×95×82mm
	H02WG		2 channels weighing	24 bits	RS485, supports remote function	

Programmable Power Module

- Haiwell Ethernet programmable power module supports Haiwell cloud platform, which can be used for remote programming, downloading, firmware upgrade, diagnosis, monitoring and debugging of PLC through Haiwell cloud.
- Set parameters in real time to facilitate the generation of various power test curves.
- Constant power design, each channel supports a maximum of 20W long-term output, short-term peak output power up to 50W, maximum output voltage 50V,
- maximum output current 5A. Hardware constant voltage and constant current control.
- PWM output mode is provided, control cycle is subdivided into mS, 12-bit AD real-time measurement shows the current output voltage and current.



Programmable Power Module



Load Cell Module

Load Cell Module

- The design of industrial grade standard applies to different kinds of harsh industrial environments.
- Provide 24 bits high resolution and support multi-segment calibration.
- Supporting 4 or 6-wire weighing sensors with multiple eigenvalues, customers can adjust their reaction speed according to their requirements, so that accurate weighing can easily meet most of the demands of the current weighing application market.
- Provide the current weighing status bit flag, asisit on-site automatic weighing control.
- It has the functions of standstill check and zero point detection to effectively restrain zero drift of load cell.
- Weighing module can be widely used in packaging, food, chemical industry, metallurgy, building materials, feed processing and other fields.

Item	Specification
Power supply	24VDC±20%, 0.2A
A/D conversion method	24Bits $\Delta \Sigma$
A/D conversion speed	6.25/12.5/25/50/100/200/500Hz
Internal resolution	24bits
linearity error	Static weighing \leq 0.02% FS
Excitation Voltage	5VDC \pm 5% , 125mA (it can connect with 4 load cells each 350 Ω)
Sensor sensitivity	1mV/V~5 mV/V
Measurement pulse	0~2000Hz 24VDC
Load cell form	4- line connection or 6-line connection load cells
Maximum distance to connect the sensor	100 meters

Communication Modules

Model	Specification	Dimension WxHxD
S01RS	With isolation ,1 RS232/RS485 communication port, Modbus RTU/ASCII protocol, freedom communication protocol, Haiwellbus high speed communication protocol, Baud rate 1200~57600bps	 30×95×82mm
S01GL	With isolation ,Modbus RTU/ASCII protocol, freedom communication protocol, Haiwellbus high speed communication protocol, Baud rate 1200~115200bps	
H01ZB	Zigbee wireless communication	
PC2ZB	PC to Zigbee module	 48x70x24mm

- 4 models , communication port extension module and the wireless communication module ;
- Power supply: internal 24VDC;
- Baud rate 1200 ~ 115200bps, master/slave mode can be used well;
- Support Modbus RTU/ASCII protocol, free communication protocol, HaiwellBus high-speed communication protocol;
- It can be used as extension module for any host, except C series PLC, increasing the number of communication ports;
- Single communication port module can be extended to two or three communication ports, RS485/RS232 port optionally.



H01ZB



PC2ZB

ZigBee Wireless Communication Module

ZigBee technology is a short-range, low-power wireless communication technology. Its biggest characteristic is low-power consumption and can be networked, especially the network function with routing, theoretically the communication coverage area of ZigBee can be unlimited expansion. Haiwell has two models for zigbee module, namely PC2ZB and H01ZB.

PC2ZB: It is a type of wireless communication expansion module that used on PC terminal such as computer, HMI, text, etc. Through this module, HaiwellHappy can carry out the operations of online and read-write in wireless mode with the host PLC which is extended with H01ZB.

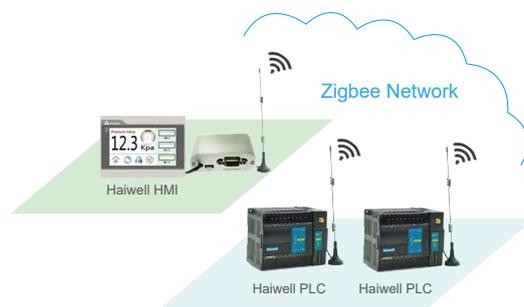
H01ZB: It is an expansion module for wireless communication between host PLCs. Host PLCs that have expanded this module can use the instructions of MODR/MODW/HWWR/HWRD to achieve read and write communications in wireless mode. H01ZB can only be connected to PLC by parallel port. The communication between PLC and host computer is generally a combination of PC2ZB+H01ZB. When host PLC communicates with host computer wirelessly, it needs to hang a H01ZB module behind each host PLC.



Item	H01ZB	PC2ZB
Power Supply	The host extension power supply	USB port power supply (+5V)
Environment temperature	Operating temperature: 0~+55°C Storage temperature: -25~+70°C Humidity: 5~95% RH, No condensation	Operating temperature: 0~+55°C Storage temperature: -25~+70°C Humidity: 5~95% RH, No condensation
Operating Frequency	2.4~2.5GHz	2.4~2.5GHz
Transmit Power	+14dBm	+14dBm
Receiver sensitivity	95dBm	95dBm
Allowed relay(routing) number	Up to 6 by default	Up to 6 by default
Protocol conversion	Zigbee <=> modbus	Zigbee <=> modbus
Maximum communication rate	38400bps	38400bps
The number of channels	6	6
PANID range	1~31	1~31
The largest network capacity	65535	65535
Reliable transmission distance	150m (No hinder, linear distance)	150m (No hinder, linear distance)
ZigBee protocol version	ZigBee Pro	ZigBee Pro
Network type	Mesh	Mesh
Node types	The coordinator, routers	The coordinator, routers
Antenna type	SMA antenna	SMA antenna

Products Features

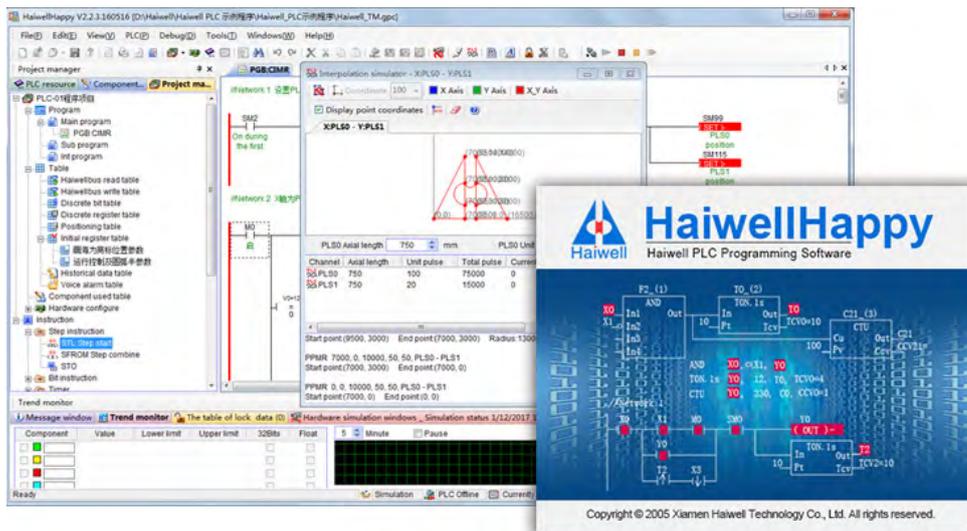
- Zigbee communication. Support Modbus protocol conversion
- Module hang on the PLC host by extension cable, powered by the host internal DC24V
- Directly use the PLC host address, no worry about Zigbee setting
- No software configuration, set the device DIP switch to get network
- Wireless communication, easy to install and use, reduce cost



PC2ZB is a type of wireless communication expansion module that used on PC terminal. It converts PC terminal of RS232/RS485/USB to ZigBee signal. Through this module, HaiwellHappy can be online and read-write in wireless mode with the host PLC which is extended with H01ZB.

The PLC control system is the most widely used in industrial automatic control area. However, wired PLC data acquisition has been unable to meet the application requirements of some certain areas. Haiwell PLC's wireless module H01ZB which is based on wireless data transport protocol ZigBee can solve this problem.

HaiwellHappy



HaiwellHappy is the programming software for Haiwell PLC. It accordance with IEC 61131-3 standard, supports 100% built-in simulator and three kinds of programming languages (LD-Ladder Diagram, FBD-Function Block Diagram and IL-Instruction List). It can run on the systems of Windows 98, Windows 200X, Windows XP and the later Windows versions.

You can get the latest version from <http://en.haiwell.com> Download center for free.

HaiwellHappy Features

- Haiwell Cloud Programming
Support Haiwell Cloud platform, can use Haiwell cloud to do remote programming for Haiwell PLC as upload/download, firmware upgrading, self-diagnosis, monitoring and debugging. Easy for remote connection and real-time data monitoring of the site. Also you can do local programming through a HMI which supports built-in cloud engine.
- 100% Built-in PLC simulator
Haiwell PLC programming software is the first one with internal simulator in China, realizing the PLC program run in the simulation. During programming or the programming is completed, you can run PLC program in the simulation without online to check the program execution is correct or not. It can reduce on-site commissioning time greatly, reduce debugging difficult and improve debugging efficiency.
- Communication simulator
It is used to the debug communication instruction simulation tools. It can be manually input simulatesly response message returned from salve, or you can use the computer's serial port to communicate with salve really, Simulate the process that PLC executes communication instruction really and process the return data from the salve.
- Interpolation simulator
Track and draw the trajectory generated from motion control instructions such as the linear interpolation, circular interpolation, listing parameters of the pulse output channel of the motive plane and corresponding to each axis, display the current position of the channel, the mechanical home position, output mode, you can set shaft length, unit pulses.
- PLC executable file Generation
PLC program can be generated to executable file which is released and executed independently. So you do not need to send the PLC program to the user, it can be very easy, very safe to put the PLC executable file to the user to download, but do not worry the user would can see the program content.
- Modular project structure
Create 63 blocks total (main program, sub program, interrupt program) and chose any programming language to program. The execution order of block can be adjusted at random. Each block can be imported and exported independently and has the same password protected of program projects. So we can fully realize the modular programming and program reuse dreams.

Human Machine Interface - HMI

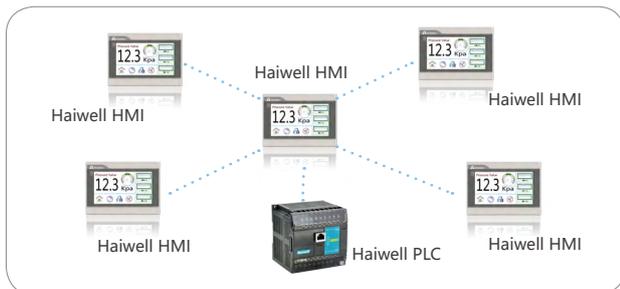


Model	Specification	Panel Cutout WxH	G.W.	Dimension WxHxD
C7	7" TFT, 800*480, A8 800MHz, 4G Flash, 512M RAM	193*138mm	0.7kg	 200*146*37mm
C7-W	7" TFT, 800*480, A8 800MHz, 4G Flash, 512M RAM, built-in Wifi			
C10	10.1" TFT, 1024*600, A8 800MHz, 4G Flash, 512M	260*202mm	1.2kg	 270*212*35mm
C10-W	10.1" TFT, 1024*600, A8 800MHz, 4G Flash, 512M, built-in Wifi			

- 7" and 10.1" sizes optional. LED backlight, fashion, splendid, elegant
- Cortex A8 800MHZ CPU, 4GB FLASH + 512M DDR3
- Serial port/ U disk / SD card / Ethernet port/ Haiwell cloud
- HMI directly uses Haiwell Cloud SCADA Software for programming and management
- Supports cloud / mobile terminal access control, strong operability
- A/B Key security mechanism, Multi-language automatic translation, Project overview interface
- Innovative network mode, easy, convenient and practical
- Integrate Haiwell cloud service, built-in Haiwell cloud engine
- Standard RJ45 port, 2 serial ports (232/422/485), 2 USB ports, SD card. WiFi is optional

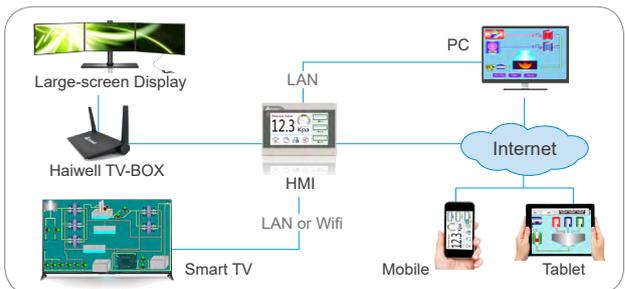
Multiple HMI Networking Easily

It only needs to run project on a host HMI, any slave can be directly connected to the networking of host HMI without any project running, and it does not limit the number of slave devices connected, achieving simple and flexible networking.



Multi-Screen Communication

Support multiple terminal display as TV/PC/Mobile etc. User can customize the picture for different display size. Support mutual control between the devices. For example you can control the TV display by mobile.



Cloud Camera

Integrating Haiwell cloud, we can view the high-definition fluent video remotely on the mobile phone APP or the cloud website through the HMI peripheral controls. Support remote real-time monitoring through mobile phones, PCs and other terminals, anytime and anywhere to view conveniently and safely.

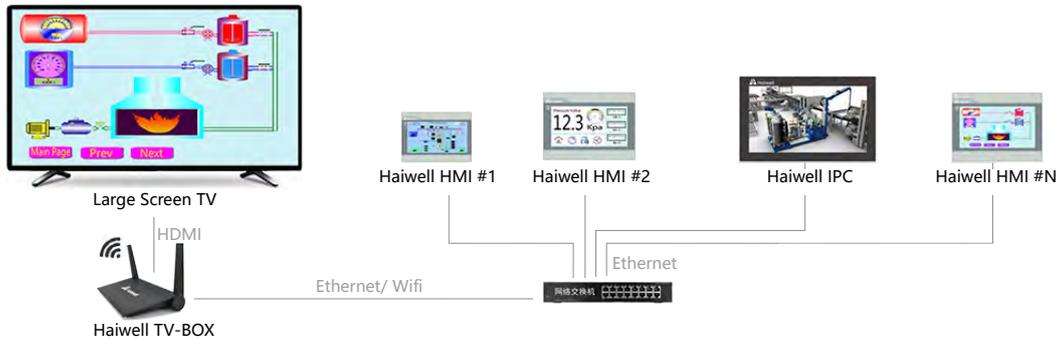


Parameter	Model	CTQ6C (Cloud camera with "pan-tilt")	CTQ5X (Wall-Mounted Cloud Camera)	CTQ3 (Wall-Mounted Cloud Camera)	CTQ5T (Wall-Mounted Cloud Camera)
Camera Parameter	Camera Pixel	200W			
	Sensor Type	1/2.7" Progressive Scan CMOS			
	Shutter	Shutter Adaptation			
	Camera Lens	4mm@F2.2, diagonal field angle 100°, horizontal 85°	6mm, horizontal field angle 51°, diagonal 62° distance 38m	4mm F2.0, horizontal field angle 87°, diagonal 104°	6mm F2.0, horizontal field angle 54°, diagonal 62°
	Angel of pan-tilt	horizontal 0°-340°, vertical upward 105°, downward 15°	/	/	/
	Interface Type of Camera Lens	M12			
	Night Supplementary Light Mode	Infrared night vision			
	Day and Night System	ICR Infrared filter type			
	IR View Distance	10meters (Depending on the environment)	50meters	30meters	50meters
Compression Standard	Video Compression Standard	Smart H.264	H.265/ H.264	H.264	H.264
	H.264 Encoding Type	Main Profile			
	Video Compression Code Rate	Super definition, High definition, Equalization three types, Self-adaptive code rate			
Image	Maximum Image Size	1920x1080 Support dual stream			
	Frame Rate	Maximum 15 frames, self-adaptive network transmission rate	Maximum frame rate:50Hz:25fps, self-adaptive network transmission rate		
	Image Setting	Brightness, Contrast, Saturation, etc.			
Function, Property	Memory Function	Support Micro SD card (Maximum 128G)			
	Mirror Image	Support			
	Digital Noise Reduction	/	3D digital noise reduction		
	Wide Dynamic Range	/	Digital wide dynamic range		
	Backlight Compensation	Support			
	Additional Function	Scintillation prevention, heartbeat, password protection, watermark			
Interface	Wired Interface	One RJ45, 10M/100M self-adaptive Ethernet interface			/
	Memory Interface	Micro SD card (maximum 128G)			/
Wireless Parameter	Wireless Standard	IEEE802.11b, 802.11g, 802.11n			/
	Frequency Range	2.4 GHz ~ 2.4835 GHz			/
	Channel Bandwidth	Support 20MHz			/
	Safety	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, WPS			/
	Transmission Rate	11b:11Mbps, 11g :54Mbps, 11n :150Mbps			/
General Specification	Working Temperature and Humidity	-10°C ~45°C , humidity less than 95% (without condensation)	-30°C ~60°C , humidity less than 95% (without condensation)		
	Power Supply	DC5V±10%	DC 12V±10%		
	Power Dissipation	5.5W MAX	8W MAX		
	Level of Protection	/	IP66 (Waterproof and Dust Prevention)		
	Appilication Scenarios	Indoor	Common use in indoor or outdoor		
	Size (mm)	87.7*87.7*112.7mm	110*61*213mm	72*72*150mm	106mm*75*220mm
	Parts	/	Power adapter, Stand	/	Power adapter, Stand
	Weight	0.55kg	1.1kg	0.55kg	1.1kg

Large Screen Controller TV-Box

Haiwell large-screen controller TV-BOX can realize the large-screen display of HMI images in the LAN. User can select, switch and view multiple touch screen images on the TV screen, and realize the function of large traditional electronic display board in the most cost-effective way.

Through TV-BOX, different sizes of touch screen images can be displayed on the TV screen. The scada, curve, formula, user rights and other functions on the HMI can be displayed on the large screen. Users can use remote controller or mouse by USB interface of TV-BOX to realize the remote operation and monitoring of the HMI.



Model	Specification	Dimensions
TV-Box	Supports 4K/1080P/1080i/720P display. Quad-Core Cortex-A7, 8GB flash Supports HDMI/ WiFi/ USB/ Internet interface	180x30x115mm

Products Features

- Big electronic display board function
One TV-BOX, one TV, and multiple HMIs can easily realize the function of big electronic display board, which is widely used in agricultural greenhouses, aquaculture, libraries, production workshops and other large screen data monitoring and display applications.
- Dual-band wireless WIFI
The dual-frequency 2.4G /5G WIFI chip is equipped, so the network speed is faster and more stable.
- Innovation of the project
HMI Image can be displayed according to the size of the TV screen. Support remote controller button, wired keyboard and mouse three modes of operation, easy and convenient operation.
- Remote management
Supports display, access, and remote control of HMI within the LAN.
- Firmware upgrading function
Support online and offline version update.



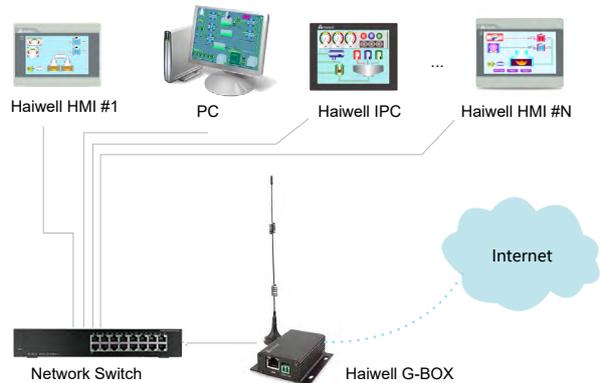
Specifications	Large-screen controller TV-BOX	
Operating system	Support Android 6.0, built-in multi-screen real-time control system	
TV Resolution	4K/ 1080P/ 1080i/ 720P	
The processor	CPU	Quad-Core Cortex-A7
	RAM	1GB DDR3
Memory	Flash	8GB EMMC
	External interface	HDMI2.0
Ethernet port		10/100M
USB HOST		2xUSB2.0
TF card		support
WIFI		2.4G/5G
AV interface		R,L,CVBS
The input power		5VDC/2A
Others	Shell material	ABS plastics
	Accessories	Power cable, HDMI cable, remote controller
	Size(W*H*D)	180x30x115mm
	Weight	0.6kg

4G Industrial Router G-Box

Haiwell G-BOX is a small 4G industrial router, with a single LAN port, classic industrial design.

Industrial equipment can use 4G network to achieve outdoor high-speed Internet access, to meet the intelligent, safe, reliable and stable communication needs.

Model	Specification	Dimension
G-Box	Supports follows TDD-LTE: B38/39/40/41, FDD-LTE: B1/3/8/5, UMTS: B1/5/8, TD-SCDMA: B34/39, GSM: B3/8 Cat4	82x24x70mm



Products Features

- Supporting Haiwell Cloud as a cloud platform without any additional server, plug-and-play is simple and convenient.
- Adopting high-performance industrial communication processor module and embedded complete TCP/IP protocol stack, it can support the transmission rate of 150 Mbps.
- Industrial design, metal enclosure, protection level IP30, enclosure and system security isolation, especially suitable for industrial control site application antenna interface anti-thunder protection;
- Support 4G LTE-TDD/LTE-FDD and 3G/2G and other network formats, and the network system can be self-adaptive.
- Support DHCP function, static IP and other functions;
- Supporting 10/100/1000M Ethernet interface, suitable for power, energy, water, agriculture, industrial control, self-service terminals and other industrial applications;
- Networking is simple, fast, flexible, and easy for users to lay their own network.
- Wide voltage input, short circuit protection and good EMC design.

Specifications	Model	Haiwell G-BOX
Network Format	4G/3G/2G	TDD LTE: B38/39/40/41 FDD LTE: B1/B3/B5/B8 UMTS: B1/5/8 TD-SCDMA: B34/39 GSM: B3/8
OS	WinXP, WIN7/8/10, VISTA, VISTA32/64, Linux2.4, Android2.3 and higher version	
TCP/IP Protocol	IPV4/IPV6	
Interface	Antenna Interface	4G Antenna Interface
	SIM Card	standard internet card/Phone card
	LAN	10/100/1000M
Environment	Working Temperature	-20 ~ +70°C
	Storage Temperature	-40 ~ +85°C
	Humidity	≤95%
Others	Shell	Aluminum alloy
	Weight	0.25kg
	Size	82x24x70mm
	Power Supply	DC24V
	Stand-by Power Consumption	Max50mA@24V DC
Working Consumption	Max 200mA@24V DC	

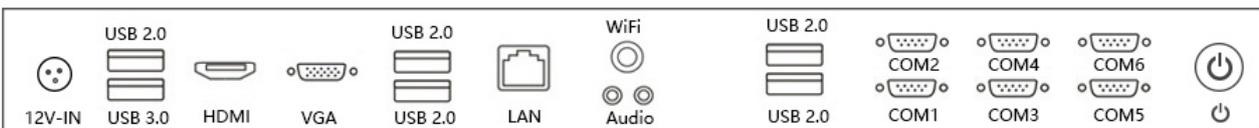


Industrial Panel PC

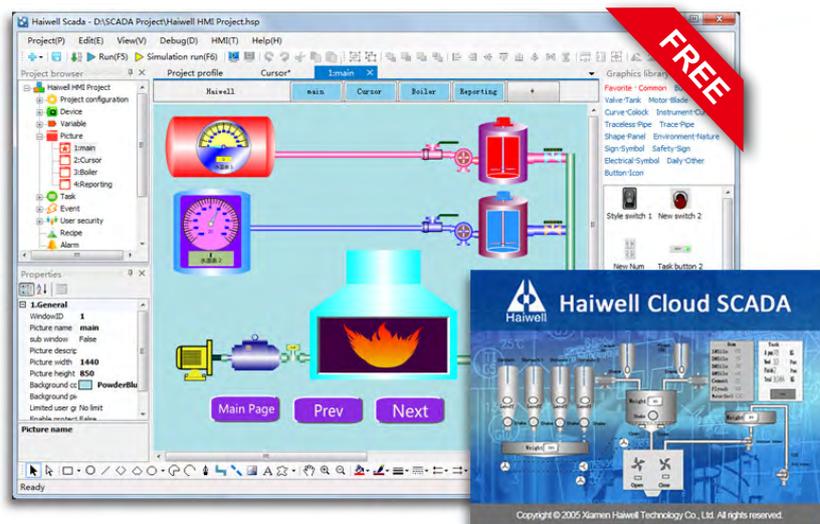


Mode	Specification	Weight	Hole Size W x H	Product Dimension W x H x D
P15	15" TFT,1024×768, Intel Baytrail J1900 4-Core CPU, 2G DDR3, 32G SSD. Support VGA and HDMI output, WIFI is optional. Linux System, uninterrupted running with 24 hour. Built-in Haiwell Cloud SCADA.	N.W.: 5.0kg G.W.: 6.3kg	355 x 271mm	 375 x 290 x 57mm
P17	17" TFT, 1280×1024, Intel Baytrail J1900 4-Core CPU, 2G DDR3, 32G SSD. Support VGA and HDMI output, WIFI is optional. Linux System, uninterrupted running with 24 hours. Built-in Haiwell Cloud SCADA.	N.W.: 6.7kg G.W.: 8.2kg	394×316mm	 415×337×57mm
P22	22" TFT, 1920×1080, Intel Baytrail J1900 4-Core CPU, 2G DDR3, 32G SSD. Support VGA and HDMI output, WIFI is optional. Linux System, uninterrupted running with 24 hour. Built-in Haiwell Cloud SCADA.	N.W.: 8.7kg G.W.: 10.6kg	531.9×324mm	 552.9×345×57mm

- Intel Baytrail J1900 4-Core CPU, DDR3+SSD
- Shell is made in steel plate, matte smooth panel, more beautiful and firm
- 178° full view LED screen, high resolution, high color saturation, exquisite screen
- Original resistance-type touch screen with dust-proof and oil-proof, touch sensitively, the life-time is more than 30 millions times
- Support power-on function, use all-solid capacitors, uninterrupted running with 24 hours
- Stainless steel power switch, dedicated aviation power interface with fixed nut connector without loosening
- Flexible application in industrial automation, intelligent equipment, industrial control, HMI and other PC control
- Standard USB 3.0 and USB 2.0, 2 RJ-45 interfaces(1000MB), 1 LINE-OUT, 6xCOM (Default RS232, as for COM3: RS232 / 422/485 is optional), support VGA and HDMI output, WIFI is optional
- Support for embedded, VESA cantilever, wall hanging, desktop bracket and other installation methods, there will be given 1 desktop bracket and 1 set of (4 pcs) embedded snap for free



Cloud SCADA



Haiwell Cloud SCADA is NET-Framework based industrial automation monitoring and management platform developed by Xiamen Haiwell Technology Co., Ltd. Also it is the programming&management software for Haiwell HMI.

You can get the latest Haiwell Cloud SCADA software from <http://en.haiwell.com> Download center for FREE.

Product Features

- **Powerful displaying function**
The industrial site condition can be observed directly to do real-time monitoring through the various primitives and bitmaps of the picture.
- **Powerful Connectivity**
Communicate with all kinds of industrial control equipments, monitor by acquisition of production signal from the industrial site.
- **Rich function modules**
The alarm notice about the industrial site can be sent by picture, computer voice, Wechat, SMS, mail, ect to the relevant personnel.
The network engineering enables that different projects can be client or server to each other, by sharing the data,the distributed control can be realized.
- **Strong Database**
Record and store data. Make an analysis of real-time data and historical data to solve the production problems, improve production efficiency and improve product quality, etc.
- **Programmable command language**
Provide to the user with the JavaScript programming language function.
- **System Security**
Available to set security control level for project(such as security level, user level,etc), which can improve the security of the project.
- **Simulation function**
Available to run in simulation, which ensures the project not to be affected by the actual devices. And it can be tested in the software, shortening the development cycle.

Hardware Requirement

CPU: 1.2 GHz PC or higher version, 2.4 GHz PC or compatible version.
Memory: 512MB or higher, suggested 1GB.
Hard Drive: 20GB or higher, suggested 80GB.
Mouse: Microsoft.
Display: Resolution 800 x 600 high color 16-bit or higher, suggested 1024 x 768 high color 32-bit.

Software Requirement

OS: Windows XP SP2 or higher version.
Operating Platform: Net Framework 2.0/3.0/3.5.

Text Display

TP300 is a Human-Machine Interface that is used with many kinds of PLC (or the other intelligent controllers with communication ports). With TP300, both the values of the PLC inner registers and the relays status of PLC can be monitored or changed through texts or LEDs. So the operation of the machines or the devices is more easy and convenient.

Model	Specification	Hole Size W x H	Dimension WxHxD
TP300	Text display, 4.3" STNBlue LCD display, 192 × 64 Pixel resolution	165×86mm	 172×95×30mm



Product Features

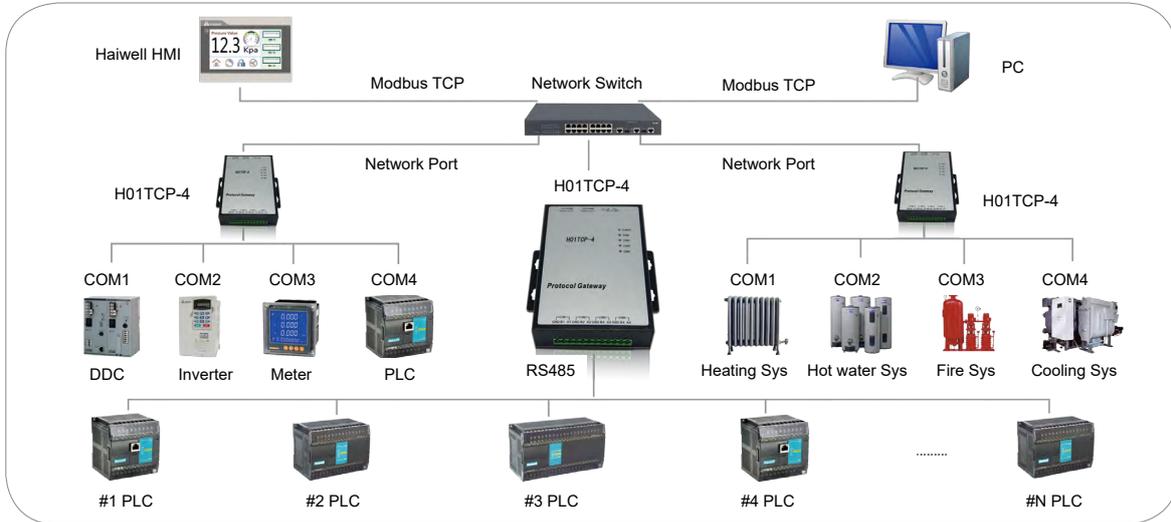
- The windows are made with the editor TP300 on PC. Text including Chinese characters can be input and the PLC address can be set. The windows are downloaded with serial port
- The PLC communication protocols are downloaded to the TP300 with the data of the windows, so the engineer needn't program of communication.
- It can work with most popular PLC, including SIEMENS, Mitsubishi, OMRON, Schneider, FACON, LG, Delta, AB, SAIA and etc. It supports some general protocols like Modbus RTU, Free communication and ECOSTEP protocol applied in KINCO servo motor driver.
- Password protecting function.
- Alarm List function. The current alarm information is displayed one by one.
- Optional clock module is available. They can provide a real-time clock.
- It has 19 keys, which can be defined as function keys, there is a keyboard for numeric input. The manipulation is simple. Some of the mechanic buttons on the controlling cabinet can be substituted with them.
- Various communication modes can be selected. Any of RS232 and RS485 is OK.
- STN LCD with background lights. 4 rows (24 English or 12 Chinese characters in every row) of characters can be displayed at the same time.
- The front panel of the TP300 accords with IP65 standard. It is water-proof and oil-proof.

Model	TP300
Shell	Gray color
Display	4.3" STNBlue LCD
Resolution	192 × 64 Pixel
Color	Monochrome
Brightness	60 cd/m ²
Contrast	Potentiometer adjustment
Backlight	Long-life bright white LED
LCD life	≥50000 @25±2°C, 65±10%RH
Touch screen	Non-touch
CPU	8-bit MCU
Memory	64KB Flash ROM
Recipe memory	Non-touch
Clock	YES (30PPM Accuracy)
Function keys	19, can be freely defined (Containing 10 number input buttons)
Communication port	PC RS232 & PLC RS485 & PLC RS232
Print Port	NO
Power supply	21~28 VDC
Current consumption	MAX150mA@24VDC
EMC Test	DC EFT:±3000V
Withstand Voltage Test	500 V AC 1minute
Insulation Impedance	≥10MΩ @ 500V DC
Vibration Resistance	10~25 Hz (X-axis, Y-axis and Z-axis 2G/ 30 minutes)
Protection class	IP65(Front Panel)
Operating temperature	0~50°C
Humidity	20~90 % RH (Non-condensing)
Storage temperature	-20°C~70°C
Shell material	ABS+PC
Dimensions	172 × 95 × 30mm
Display Size	101 × 36 mm
Mounting area	165 × 86 mm
Cooling	Natural cooling
Weight	0.3 Kg

Protocol Gateway

H01TCP-4 is a powerful gateway of hardware protocol, it can transform various protocols of the slave device into standard Modbus RTU protocol or Modbus TCP protocol.

Convenient for multiple protocols working in one network and convenient in monitoring equipments. Mainly used in the site which uses Non-Ethernet equipments, in which the PC uses Ethernet.



Product Features

- Support transforming different protocols into standard Modbus TCP protocol or Modbus RTU protocol simultaneously.
- Support multiple upper PC clients access the gateway to monitor the equipments simultaneously.
- Using Use address mapping mode in order to realize the rapid response to the TCP client request.
- Built-in WEB server, the user can use the browser to view real-time state of communication and the change of the data, convenient for debugging on site.
- Support analog linear transformation, fetch bit, high and low byte exchange, etc.
- 2 Ethernet ports, 4 isolated RS485 communication port.
- SupportS the following conversion agreement for the time being.

Item	Specification	
Operating Environment	Temperature & Humidity range	Working -30~75°C, storage -40~85°C, humidity 20~90%RH (non-condensing)
	Earthquake resistance	10~25Hz (X/Y/Z direction 2G/30min)
	Cooling Mode	Nature cooling
	Protection grade	Passed with 48 hours salt spray testing
Hardware parameters	CPU	Samsung S3C2416XH-40, ARM926EJ, 400MHZ CPU speed
	Memory	64M DDR2
	Storage	256M SLC Flash, compatible with MLC/SLC Nand Flash
	Operating system	WINDOWS CE
	Storage extension	None
	Ethernet	2 Ethernet ports for 10M/100M, supports AUTO MDI/MDIX 2 RJ45 Interface and SD card interface
	COM port	Isolated RS485 ports
	Mechanical structure	Sheet metal shell, baking finish surface
	Dimension	140*116*30mm
G.W.	500g	
Electrical specification	Rated power	< 5W
	Voltage	DC 24V, available DC 9V~24V
	Power protection	Use isolated power supply module, power surge, lightning protection
	Electric lost time allowance	< 5ms
	CE&ROHS	EN61000-6-2:2005, EN61000-6-4:2007, conform to ROHS. Lighting surge ±4KV, group pulse ±4KV, static contact 4K, air discharge 8K





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Haiwell Cloud APP



Haiwell WeChat



The parameters of product are subject to changes without prior notice.
(Ver. I - 201808)