



## Haiwell Products Catalog



- Intelligent PLC Controller
- Intelligent HMI
- Intelligent Gateway
- Intelligent Core (Screen Controller) TVBOX
- Intelligent Industrial Panel PC
- PLC Controller
- Haiwell Cloud Platform
- Haiwell Cloud APP
- HaiwellLink Cloud
- Cloud SCADA Software



## Xiamen Haiwell Technology Co., Ltd.

Xiamen Haiwell Technology Co., Ltd., established in 2005, is a national high-tech enterprise specializing in product development and sales in the fields of advanced manufacturing, automation and industrial Internet of Things. The headquarter is located in Xiamen Jimei Software Park Phase III, and the manufacturing center is located in Torch High-tech Zone (Xiang 'an) Industrial Zone.

As more than 10years development, the company has evolved from a PLC supplier to an industrial IoT solution provider. Now the products include Cloud platform,Industrial HaiwellLink Cloud,Intelligent PLC,Intelligent HMI,Intelligent Gateway,Intelligent IPC,Intelligent IPC,PLC,Cloud SCADA software (free), Intelligent Large Screen Controller TVBOX 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.The company is dedicated to providing industrial IoT solutions, such as smart factories, smart agriculture, smart photovoltaics, smart farming, intelligent fire protection,smart charging piles etc.

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 >>

Company spirits: honesty and execution with broad vision

Core Value: Intellectual property rights, domestic innovation boutique

Service concept: People-oriented, customer first

Haiwell vision: Become a reliable global supplier of automated hardware and software products

### Value >>

Customers: Create value for customers, win-win with partners

Employee: Protect employee value, share development results

Shareholders: Respect the interests of shareholders and reward the investment of shareholders

### Haiwell Certification >>



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## Haiwell Cloud



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**Haiwell Cloud Platform**  
A cross-platform IoT cloud platform

**Haiwell Cloud APP**

Easy remote control&monitoring



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**HaiwellLink Cloud**  
Exclusive IoT platform for enterprise

## Programming software

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**Cloud SCADA** Free software



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**HaiwellHappy** PLC programming software

## PLC



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**Card-type PLC**  
Ultra-thin design saves space

**Classic PLC**

Classic design,  
easy to learn and use



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## Intelligent Terminal



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**Intelligent Core (Screen Controller) TVBOX**  
Support 4/6/9 grid screen display, low cost to achieve digital dashboard function

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**A Series Intelligent HMI**  
RFID support Built-in voice, microphone and speaker



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**D Series Intelligent HMI**  
Piano Black Color & Narrow Bezel Design & High-end appearance



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**Intelligent Industrial Panel PC**  
High-definition capacitive screen



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Supports all functions of PLC and HMI



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User-defined DI/DO, integrated HMI and RTU functions



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**Intelligent Gateway CBOX**  
Non-screen Haiwell Intelligent HMI



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**Embedded Intelligent gateway EBOX**  
Use mobile as local screen

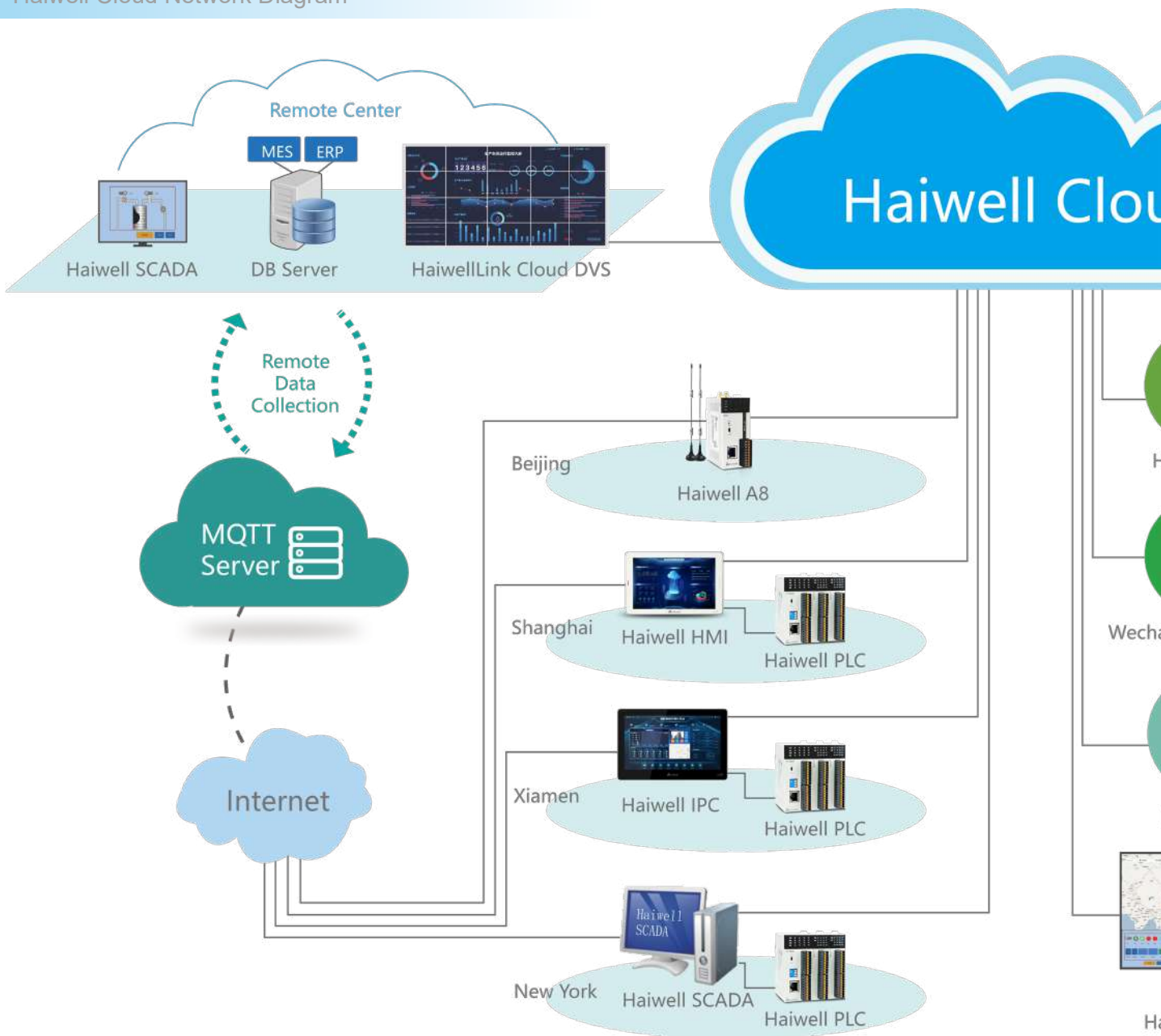
## Haiwell Cloud Platform

Haiwell Cloud is a cross-platform IoT cloud platform. It supports PC, iPad, Android, IOS and other terminals. User can visit on-site devices 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. 9 main features of Haiwell Cloud: Cloud Network, Cloud Access, Cloud Video, Cloud Alarm, Cloud Engine, Cloud Management, Cloud Security, Cloud Translate, Cloud Map.

Haiwell Cloud provides security mechanisms for communication. It is secured by the encryption mechanism of 256-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.

It covers a series of products such as Haiwell Cloud website, Cloud SCADA, Cloud HMI and Cloud APP. User can login to the Cloud platform via <https://ecloud.haiwell.com> or Haiwell Cloud APP.

Haiwell Cloud Network Diagram



# Haiwell Cloud APP

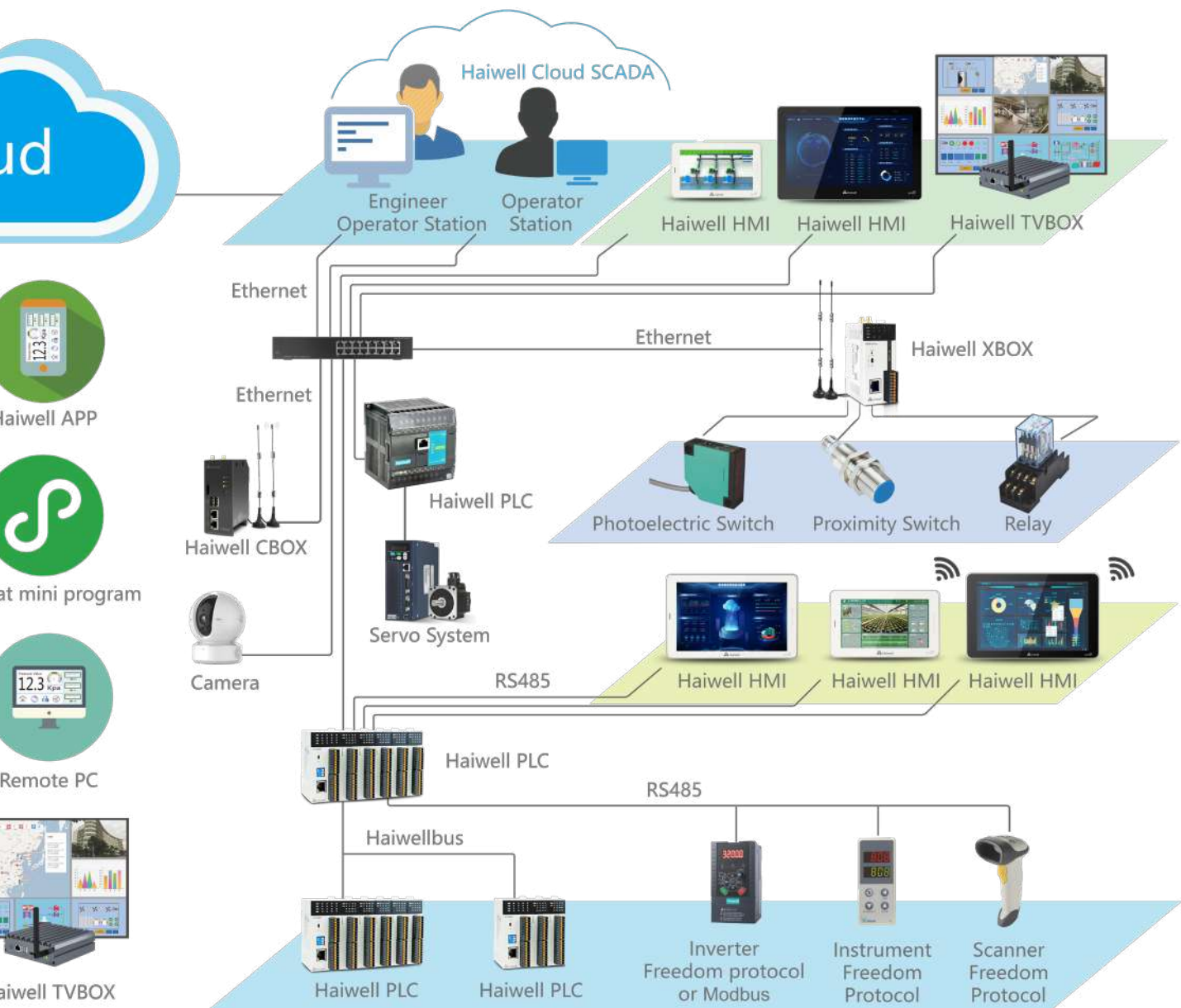
Haiwell Cloud APP support many platform terminals, such as PC, iPad, Android and iOS. Users can search "Haiwell Cloud" in any APP application store and download it freely or scan the QR code of Haiwell official APP to obtain it directly.

## APP Features

- Free register by mobile number or Email address.
- AB Key security mechanism, higher protection level
- Easy remote monitoring for devices list, devices status and devices map
- Real-time remote project monitoring, and video check
- Real-time alarm notification



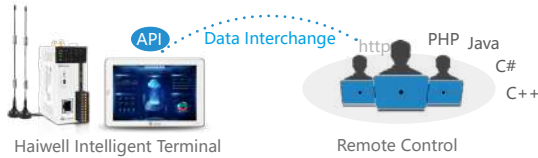
Haiwell APP



# Haiwell IIoT Platform Features

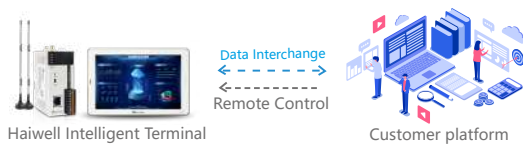
## Web API Interface

- Third-party software and platforms can easily and securely obtain device data and control devices through the built-in Web API function using HTTP protocol, support real-time data push, support PHP, Java, C#, C++ languages. Support Internet and LAN network.



## Configuration Screen Integration

- Haiwell has innovatively opened the integration function of the device configuration screen to third parties. Through a safe and easy-to-use interface, the device screen can be integrated into a variety of personalized scenarios such as third-party software, websites, APPs, and applets. Let third-party applications immediately have the remote control capabilities of the device.



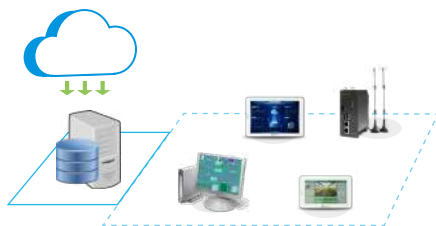
## Third party IoT Platform

- Support access to third-party IoT platforms such as Alibaba Cloud, Amazon, Google, etc.



## Private Deployment

- Support deploy a user-specific Cloud platform on user's own server, without requires of third-party IoT platform providers.
- Unlimited number of access devices. User can have company's own domain name and logo on the cloud platform , and have an own APP etc.
- It is suitable for enterprises with a large number of device accesses that require high security and customized functions.



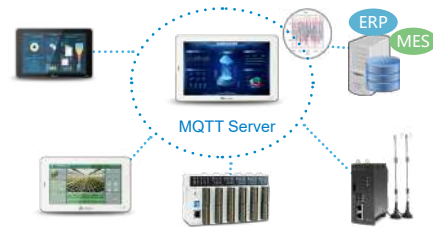
## Innovative A/B Key Security Mechanism

- Device needs to set the A Key in order to open Cloud access. It can set a number of B Key to assist A Key for management.
- If any visitor wants to bind the device, it need to get authorization from A Key + B Key, and the access time can also be set. Double key auditing mechanism, higher security level.
- For remote operation, it can also be set that authorization confirmation must be performed on the device itself to ensure the safety of the device site.



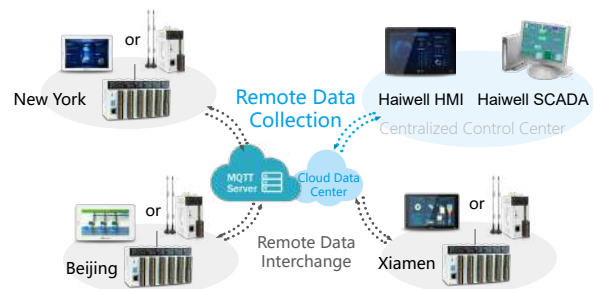
## Support MQTT protocol & built-in MQTT server

- Supports MQTT protocol, can be connected to database server/ERP/MES etc. Actively report, support millions of terminal concurrent network, can easily surpass and replace DTU equipment.
- Haiwell IoT terminal are built-in MQTT server, can enable the MQTT proxy function and easily implement MQTT networking.



## Remote devices centralized control & Haiwell Cloud Data Center

- Haiwell IoT terminal can realize offsite data interchange through MQTT server.
- Through Haiwell Cloud SCADA, can read roffsite data and realize centralized control of remote equipments.
- Haiwell provides Cloud data center functions, eliminating the need for users to build MQTT servers, and easily realize centralized control of remote devices.



## Haiwell Cloud Access

- Through mobile phones APP provided by Haiwell cloud and Haiwell cloud website easily achieve the remote viewing and control of IIoT terminal products and SCADA. No IoT gateway is needed.
- Scanning QR code by Haiwell APP/WeChat, It can realize scanning code binding, direct equipment, direct screen. All projects are developed at one time, what you see is what you get.



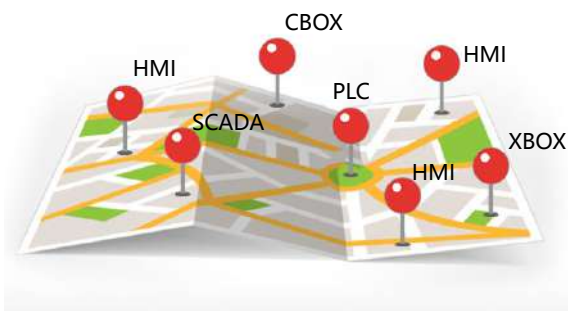
## Haiwell Cloud Alarm

- Support to send alarm information by mobile phone APP, WeChat applet and other ways of communication, and using the powerful alarm mechanism makes you feel at ease wherever you are.



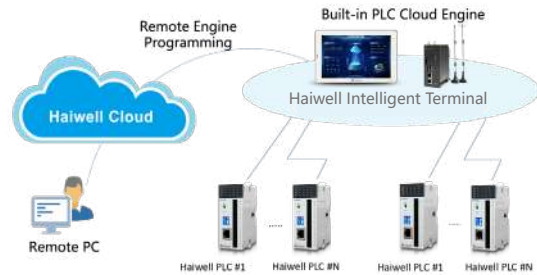
## Haiwell Cloud Map

- Users can easily remote view all IIoT terminal devices geography location, status and quantity on the phone and large screen, both intuitive and convenient.
- With the real-time bounce-alarm function, you can immediately view the location of alarm source device.



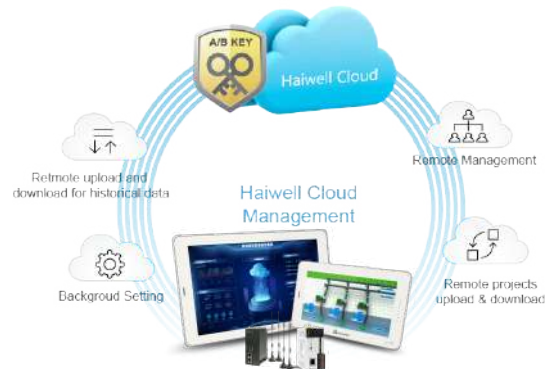
## Haiwell Cloud Transmission

- Remote programming upload/download, firmware upgrading, self-diagnosis, monitoring and debugging.
- Support remote access to PLC of leading brands.
- Three modes are supported, including direct mode, repeater mode and VPN mode.
- Access PLC remotely through internet and local area network by Haiwell cloud engine.



## Haiwell Cloud Management

- Through the Cloud management function, HMI/Cloud Box can be managed remotely via Internet, including remote project download, remote firmware update, remote basic configuration, remote historical data download and so on. The whole process is under the protection of AB-KEY security mechanism, so the remote debugging is convenient and safe.



## Data security

- The user data is not stored in Haiwell cloud. All the data can be stored in private or public server assigned by users.



# HaiwellLink Cloud



Exclusive IoT platform for enterprise. Manage projects, device, personnel, data and assets as an enterprise.  
Suitable for mass device management.

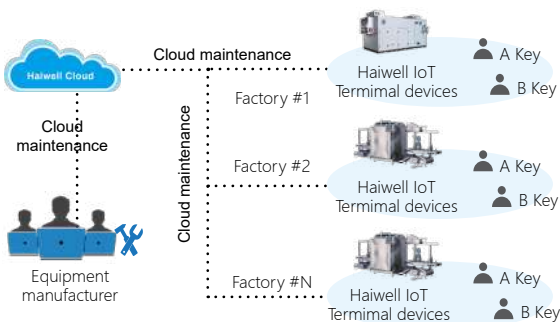
## Custom Logo

- According to the needs of project or enterprise management, it can realize personalized display on mobile APP and Cloud website.
- Including custom logo, custom platform name, custom web link.



## Cloud maintenance (Devices manufacturer maintains identity)

- Different from A/B key, Cloud maintenance provides devices manufacturers with exclusive maintenance identities
- Configure and enable Cloud maintenance in the project to facilitate mass production of devices.
- There is a dedicated enterprise platform to configure the maintenance team and maintenance members.
- Cloud maintenance identity can realize remote transparent transmission, upload and download projects, upgrade firmware, remote control configuration, etc.



## Data visualization system & WEB SCADA

- Provide centralized monitoring of devices on different sites in WEB SCADA.
- Provide data visualization system to display and interpret collected data in PC or mobile from all the devices in project
- Support third-party data sources



## Enterprise Devices

- Enterprises can bind devices in batches, uniformly assign A/B key permissions. Higher security level with dual-key audit mechanism.
- A single or multiple management teams can be set up to clarify the responsible managers of the equipment, improving the efficiency of enterprise management.
- Support multi-level grouping of equipment.



## IoT Card Management

- Support batch management and monitoring of enterprise IoT cards. View data card usage and device status in real time.
- Support online recharge and renewal of IoT cards.



# Cloud SCADA Software



Haiwell Cloud SCADA is an industrial automation monitoring and management platform software. It is a free to use SCADA software, developed by Xiamen Haiwell Technology Co., Ltd..

Haiwell Cloud SCADA combines the characteristics of SCADA and HMI editing software. It is a SCADA software, and also the design software for Haiwell IoT Cloud HMI, IoT Cloud box, IoT PLC and other IoT terminals. The newly built SCADA running end is based on the latest technology, it supports cross-platform, has powerful running performance, and integrates numerous Cloud platforms and industrial IoT functions.

Haiwell Cloud SCADA provides easy-to-use configuration tools, a good user development interface and a simple engineering implementation method. It can communicate with various industrial equipment, provides all software and hardware interfaces to implement integration with third parties. It works with other Haiwell products to achieve IIoT solutions, widely used in municipal, water conservancy, environmental protection, equipment manufacturing, petroleum, chemical, defense, metallurgy, coal, power, new energy, pharmaceutical, transportation, education and other industries.

## Product Features

- **Integrated data-link tool**  
Through Haiwell data-link tool, real-time data and historical data can be stored in databases such as MySQL and SQL Server, and data can be delivered.
- **Support MQTT protocol & built-in MQTT server**  
Support MQTT protocol, support access to database server, easily realize data collection and reporting, and connect to ERP/MES etc. The built-in MQTT server can enable proxy function and easily implement MQTT networking.
- **Cloud transparent transmission function**  
Remote programming, upload&download, firmware upgrade, diagnostics, monitoring and debugging of PLC programs. Detect abnormal conditions on the spot anytime, anywhere.
- **Support for secondary configuration**  
The variable data can be flexibly invoked to achieve centralized control of off-site equipment, making it easier for engineers to remotely control centrally.
- **Remote access control**  
It can be monitored by browser of any networked computer. The phone screen is the same as the PC, no need of repeat configuration.
- **Haiwell Cloud data center**  
No need for users to build MQTT server, easily achieve remote centralized control of equipment through Haiwell Cloud data center





Currently supported IOT platforms. Keep updating...

# Intelligent Core (Screen Controller) TVBOX



Mobile phone control large screen  
Provide various and beautiful data visualization templates

Model	Picture Quality	HDMI	Flash+RAM	WIFI	USB	LAN	Special Function	Support Camera	Dimensions W*H*D
TVBOX4	1K	1	4G+4G	2.4G/5G	1*USB 2.0+1*USB 3.0	10/100/1000Base-T	/	1	 112x112x30mm
TVBOX4 Pro	4K	1	8G+4G	2.4G/5G	1*USB 2.0+1*USB 3.0	10/100/1000Base-T	Web engineering support access cloud, a third party	3	 133x133x44mm

## Product Features

- Take TVBOX as the control center to connect HMI, gateway, PLC, cloud, data visualization, mobile phone, tablet, computer, TV, camera and ERP/MES system.
- Monitor production data, device state and video surveillance on the display board without programming.
- Provide various and beautiful data visualization templates which cover a variety of scenarios.
- Provide digital welcome board, which can be applied to ceremony, visit, meeting and etc.
- Provide split-screen viewing to monitor HMI, gateway, PLC, map, data visualization, camera, video file and URL link.
- Use mobile phone or tablet as a remote to control large screen monitor.
- Allow remote access to TVBOX by APP/PC in local area network or over the internet.
- Present real-time alarm information of local and cloud device, thereby ensure the safety and stability of equipment.
- Support playing of video and audio files, which can be applied to promotion of a company, ceremony, product demonstration and etc.
- Present electronic SOPs in file/video form and achieve the goal of paperless management.

**ESOP** SOPs can be presented on digital board in file/video form. It help Users to achieve paperless management.



**Control TV From Your Phone** Users can turn mobile phone into a remote by scanning QR code.





**Cool Data Visualization Templates**  
TVBOX provides various cool templates which cover a variety of scenarios.



**Present Alarm Information**  
Real-time alarm information of local and cloud device can be presented on TV, which ensures the safety and stability of equipment.



### Haiwell Intelligent core



# A Series Intelligent HMI



HD screen, narrow bezel and optional features like eSIM, microphone, speaker and RFID reader.

## Product Features

- Enable simple connection between HMI, mobile phone, tablet, computer, TV, camera and other HMIs in local area network.
- Enable simple connection between HMI, mobile phone, tablet, computer, TV, camera and other HMIs over the Internet.
- Allow remote access for multiple concurrent users without SCADA in the cloud or VNC connection.
- Provide data transmission and data storage in any public or private server.
- Integrate data with ERP, MES or other applications by MQTT, OPC UA, HTTP, TCP and etc.
- Embed the display of HMI in other applications like software, APP and etc.
- Include intelligent functions such as TTS output, intercom, audio and video file playback, video surveillance, RFID/NFC recognition and etc.
- Use mobile phone as a scanner to scan barcode and enter information in HMI.
- Apply to data visualization or centralized control on large screen by TVBOX.
- Support Beidou positioning and trajectory tracking.
- Use innovative design including HD screen, narrow bezel and optional features like eSIM, microphone, speaker and RFID reader.



### Connection In LAN

All models have built-in IIoT technology which enables local access and open interface without internet.



### Satellite Positioning

Support Beidou positioning and trajectory tracking. Users can check the realtime position of devices.



### Mobile Scanner

Users can turn your mobile phone into a barcode scanner and enter information everywhere. It's more convenient than external scanner.



### RFID/NFC

HMI supports reading RFID tags and NFC recognition, which can be applied to user login and access control.



# Model list

Model	TFT Screen	Storage	LAN+COM	USB	Intelligentize	Voice	Local Video	RFID	Satellite Positioning	WiFi	Wireless	Hole Size	Dimension W*H*D
A7	7" 1024*600 HD	8G+512M	1+3	1	Speaker	Yes						187x114mm Chamfer: R7mm	 193x120x32mm
A7-G		8G+512M	1+3	1	Speaker	Yes					*Built in eSIM		
A7-W		8G+512M	1+3	1	Speaker	Yes				Yes			
A7-GP		8G+512M	1+3	1	Speaker	Yes			Yes		*Built in eSIM		
A7-GW		8G+512M	1+3	1	Speaker	Yes				Yes	*Built in eSIM		
A7-E		8G+512M	1+3	1	Speaker	Yes					Global 4G		
A7-EW		8G+512M	1+3	1	Speaker	Yes				Yes	Global 4G		
A7 Pro		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes					
A7 Pro-G		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes			*Built in eSIM		
A7 Pro-W		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes			
A7 Pro-GP		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes	Yes		*Built in eSIM		
A7 Pro-GW		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	*Built in eSIM		
A7 Pro-E		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes			Global 4G		
A7 Pro-EW		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	Global 4G		
A10	10.1" 1280*800 HD	8G + 1G	1+3	1	Speaker	Yes						254x161mm Chamfer: R7mm	 260x167x32mm
A10-G		8G + 1G	1+3	1	Speaker	Yes					*Built in eSIM		
A10-W		8G + 1G	1+3	1	Speaker	Yes				Yes			
A10-GP		8G + 1G	1+3	1	Speaker	Yes			Yes		*Built in eSIM		
A10-GW		8G + 1G	1+3	1	Speaker	Yes				Yes	*Built in eSIM		
A10-E		8G + 1G	1+3	1	Speaker	Yes					Global 4G		
A10-EW		8G + 1G	1+3	1	Speaker	Yes				Yes	Global 4G		
A10 Pro		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes					
A10 Pro-G		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes			*Built in eSIM		
A10 Pro-W		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes			
A10 Pro-GP		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes	Yes		*Built in eSIM		
A10 Pro-GW		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	*Built in eSIM		
A10 Pro-E		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes			Global 4G		
A10 Pro-EW		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	Global 4G		
A15	15.6" 1920*1080 HD Capacitive touch	8G + 1G	2+3	2	Speaker	Yes						383x245 Chamfer: R7mm	 394x256x45mm
A15-G		8G + 1G	2+3	2	Speaker	Yes					*Built in eSIM		
A15-W		8G + 1G	2+3	2	Speaker	Yes				Yes			
A15-GP		8G + 1G	2+3	2	Speaker	Yes			Yes		*Built in eSIM		
A15-GW		8G + 1G	2+3	2	Speaker	Yes				Yes	*Built in eSIM		
A15-E		8G + 1G	2+3	2	Speaker	Yes					Global 4G		
A15-EW		8G + 1G	2+3	2	Speaker	Yes				Yes	Global 4G		
A15 Pro		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes					
A15 Pro-G		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes			*Built in eSIM		
A15 Pro-W		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes			
A15 Pro-GP		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes	Yes		*Built in eSIM		
A15 Pro-GW		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	*Built in eSIM		
A15 Pro-E		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes			Global 4G		
A15 Pro-EW		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	Global 4G		

\*The only supported country is China

# D Series Intelligent HMI

Piano black color narrow frame design



RFID support Built-in voice, microphone and speaker

## Product Features

- Enable simple connection between HMI, mobile phone, tablet, computer, TV, camera and other HMIs in local area network.
- Enable simple connection between HMI, mobile phone, tablet, computer, TV, camera and other HMIs over the Internet.
- Allow remote access for multiple concurrent users without SCADA in the cloud or VNC connection.
- Provide data transmission and data storage in any public or private server.
- Integrate data with ERP, MES or other applications by MQTT, OPC UA, HTTP, TCP and etc.
- Embed the display of HMI in other applications like software, APP and etc.
- Include intelligent functions such as TTS output, intercom, audio playing, video surveillance and etc.
- Use mobile phone as a scanner to scan barcode and enter information in HMI.
- Apply to data visualization or centralized control on large screen by TVBOX.
- Support Beidou positioning and trajectory tracking.
- Use innovative design including HD screen, narrow bezel, Aluminum alloy shell and optional features like eSIM, microphone, speaker and RFID reader.



### Capacitive Touch Screen

Supports wet hand operation, sensitive touch, instant response with a light touch of fingertips. High brightness, perfect restoration of image color and clarity.



### Mobile Authentication

The identity of operator can be verified by using NFC/RFID recognition or scanning a QR code with mobile phone.



### Video Surveillance

HMI can connect with camera supporting RTSP or EZVIZ protocol by Ethernet. The camera can be watched on HMI and APP.




### Video Playing

Users can play video on HMI. The supported format is MP4.



# Model list

Model	TFT Screen	Storage	LAN+COM	USB	Intelligentize	Voice	Local Video	RFID	Satellite Positioning	WiFi	Wireless	Hole Size	Dimension W*H*D	
D4	4.3" 800*480 HD	4G + 512M	1+2	1		Yes						132×80mm Chamfer: R7mm	 137×85×30mm	
D4-G		4G + 512M	1+2	1		Yes				China 4G				
D4-W		4G + 512M	1+2	1		Yes				Yes				
D7	7" 1024*600 HD Capacitive touch Aluminum alloy shell	8G + 512M	1+3	1	Speaker	Yes						187×114mm Chamfer: R7mm	 193×120×33mm	
D7-G		8G + 512M	1+3	1	Speaker	Yes					*Built in eSIM			
D7-W		8G + 512M	1+3	1	Speaker	Yes				Yes				
D7-GP		8G + 512M	1+3	1	Speaker	Yes			Yes		*Built in eSIM			
D7-GW		8G + 512M	1+3	1	Speaker	Yes				Yes	*Built in eSIM			
D7-E		8G + 512M	1+3	1	Speaker	Yes					Global 4G			
D7-EW		8G + 512M	1+3	1	Speaker	Yes				Yes	Global 4G			
D7 Pro		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes						
D7 Pro-G		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes						*Built in eSIM
D7 Pro-W		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes				
D7 Pro-GP		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes	Yes					*Built in eSIM
D7 Pro-GW		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	*Built in eSIM			
D7 Pro-E		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes			Global 4G			
D7 Pro-EW		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	Global 4G			
D10		10.1" 1280*800 HD Capacitive touch Aluminum alloy shell	8G + 1G	1+3	1	Speaker	Yes							
D10-G	8G + 1G		1+3	1	Speaker	Yes					*Built in eSIM			
D10-W	8G + 1G		1+3	1	Speaker	Yes				Yes				
D10-GP	8G + 1G		1+3	1	Speaker	Yes			Yes		*Built in eSIM			
D10-GW	8G + 1G		1+3	1	Speaker	Yes				Yes	*Built in eSIM			
D10-E	8G + 1G		1+3	1	Speaker	Yes					Global 4G			
D10-EW	8G + 1G		1+3	1	Speaker	Yes				Yes	Global 4G			
D10 Pro	8G + 1G		2+3	2	Microphone Speaker	Yes	Yes	Yes						
D10 Pro-G	8G + 1G		2+3	2	Microphone Speaker	Yes	Yes	Yes				*Built in eSIM		
D10 Pro-W	8G + 1G		2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes				
D10 Pro-GP	8G + 1G		2+3	2	Microphone Speaker	Yes	Yes	Yes	Yes			*Built in eSIM		
D10 Pro-GW	8G + 1G		2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	*Built in eSIM			
D10 Pro-E	8G + 1G		2+3	2	Microphone Speaker	Yes	Yes	Yes			Global 4G			
D10 Pro-EW	8G + 1G		2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	Global 4G			
D15	15.6" 1920x1080 HD Capacitive touch Aluminum alloy shell		8G + 1G	2+3	2	Speaker	Yes						383×245mm Chamfer: R7mm	 394x256x45mm
D15-G		8G + 1G	2+3	2	Speaker	Yes					*Built in eSIM			
D15-W		8G + 1G	2+3	2	Speaker	Yes				Yes				
D15-GP		8G + 1G	2+3	2	Speaker	Yes			Yes		*Built in eSIM			
D15-GW		8G + 1G	2+3	2	Speaker	Yes				Yes	*Built in eSIM			
D15-E		8G + 1G	2+3	2	Speaker	Yes					Global 4G			
D15-EW		8G + 1G	2+3	2	Speaker	Yes				Yes	Global 4G			
D15 Pro		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes						
D15 Pro-G		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes				*Built in eSIM		
D15 Pro-W		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes				
D15 Pro-GP		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes	Yes			*Built in eSIM		
D15 Pro-GW		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	*Built in eSIM			
D15 Pro-E		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes			Global 4G			
D15 Pro-EW		8G + 1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	Global 4G			

\*The only supported country is China

# R Series Intelligent IPC



Built-in Haiwell Cloud Configuration Capacitive touch screen Aluminum alloy shell

Model	TFT Screen	RAM	Flash	CPU	LAN	COM	WIFI	Display Port	USB	Local Video	RFID	Special Function	Hole Size	Dimension W*H*D
R15 (Linux)	15.6" 1920*1080 HD Capacitive Touch Screen Aluminum alloy shell	8G/16G Optional	512G/1T Optional	Intel Core i5	2	3*RS232 1*RS485	1	VGA HDMI	2	Yes	Yes	Built-in Haiwell Cloud SCADA	383x245mm Chamfer: R7mm	394x256x53mm
R21 (Linux)	21.5" 1920*1080 HD Capacitive Touch Screen Aluminum alloy shell	8G/16G Optional	512G/1T Optional	Intel Core i5	2	3*RS232 1*RS485	1	VGA HDMI	2	Yes	Yes	Built-in Haiwell Cloud SCADA	531x322mm Chamfer: R7mm	538x330x53mm
R15 (Windows)	15.6" 1920*1080 HD Capacitive Touch Screen Aluminum alloy shell	8G/16G Optional	512G/1T Optional	Intel Core i5	2	3*RS232 1*RS485	1	VGA HDMI	2	Yes	Yes	Built-in Haiwell Cloud SCADA	383x245mm Chamfer: R7mm	394x256x53mm
R21 (Windows)	21.5" 1920*1080 HD Capacitive Touch Screen Aluminum alloy shell	8G/16G Optional	512G/1T Optional	Intel Core i5	2	3*RS232 1*RS485	1	VGA HDMI	2	Yes	Yes	Built-in Haiwell Cloud SCADA	531x322mm Chamfer: R7mm	538x330x53mm

## Product Features

- Built-in Haiwell Cloud SCADA Software makes it easier for devices to access the cloud, Genuine Authorization, unlimited variables number.
- High-definition capacitive screen, narrow frame design, aluminum alloy shell, highlighting exquisiteness and high-end quality.
- Enable simple connection between HMI, mobile phone, tablet, computer, TV, camera and other HMIs in local area network.
- Connect to mobile phones, tablets, computers, TVs, cameras and oth/er HMIs via the Internet.
- Allow remote access for multiple concurrent users without SCADA in the cloud or VNC connection.
- Provide data transmission and data storage in any public or private server.
- Integrate data with ERP, MES or other applications by MQTT, OPC UA, HTTP, TCP and etc.
- Include intelligent functions such as TTS output, intercom, audio playing, video surveillance and etc.
- Use mobile phone as a scanner to scan barcode and enter information in IPC.
- Apply to data visualization or centralized control on large screen by TVBOX.



### Text To Speech

The english text can be converted into voice . Audio files can also be played.



### Voice Intercom

All models support voice intercom, voice broadcast and remote intercom with APP.



Support text to speech



Support voice broadcast



Support voice intercom



usb to audio adapter



Support remote intercom and broadcast with mobile phone



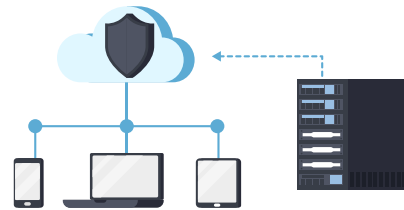
### Built-in Haiwell Cloud Configuration

Haiwell Cloud Configuration Software makes it easier for devices to access the cloud, unlimited variables number.



### Data Security

The user data is not stored in Haiwell cloud. All the data can be stored in private or public server assigned by users.



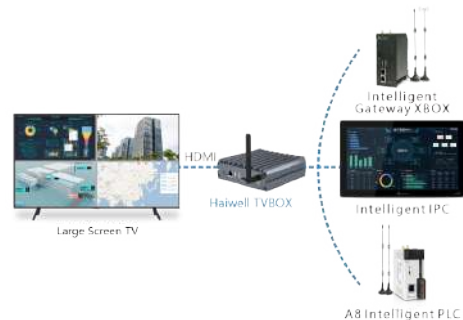
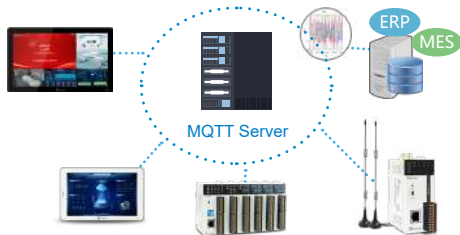
### MQTT Protocol

MQTT protocol is supported and applied to the connection with ERP/MES/database.



### Digital Sisplay Board

The production data, device state and video surveillance can be viewed on large screen by connecting with TVBOX. It can be appllie to data visualization and centralized control.



### Application



Automatic Machine Tool



Embedded Production Equipment



Factory Production Workshop

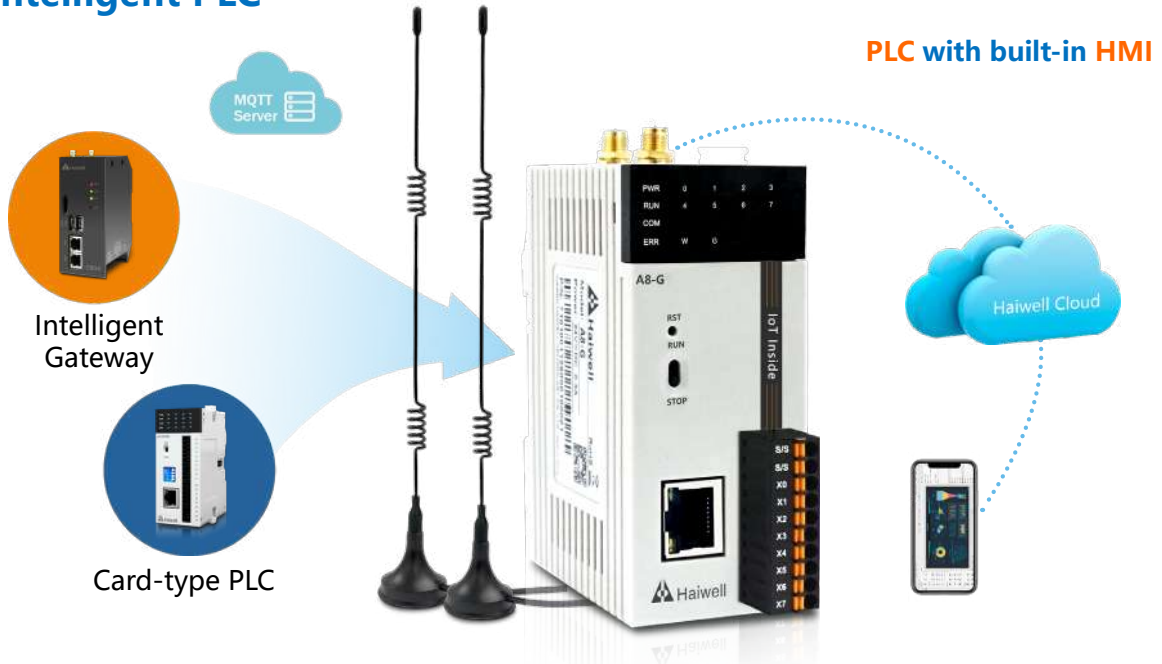


Terminal Self-service Machine




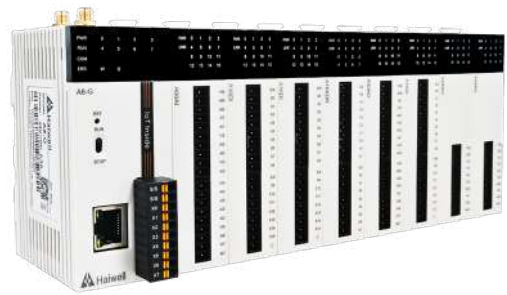
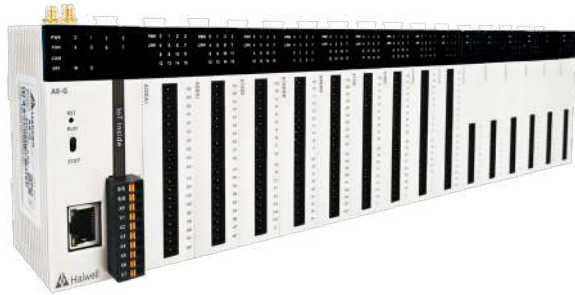
Monitoring System

# A8 Intelligent PLC



Integrated Haiwell Cloud service, no-IoT module in needed

Model	Storage(Flash+RAM)	Max Exp	I/O	LAN	COM	Satellite positioning	WIFI	Wireless Network	Dimension W*H*D
A8	4G + 512M	15	8 DI	1	1+3		Yes		 40x95x69mm
A8-G	4G + 512M	15	8 DI	1	1+3		Yes	4G eSIM	
A8-E	4G + 512M	15	8 DI	1	1+3		Yes	Global 4G	
A8-GP	4G + 512M	15	8 DI	1	1+3	Yes		4G eSIM	



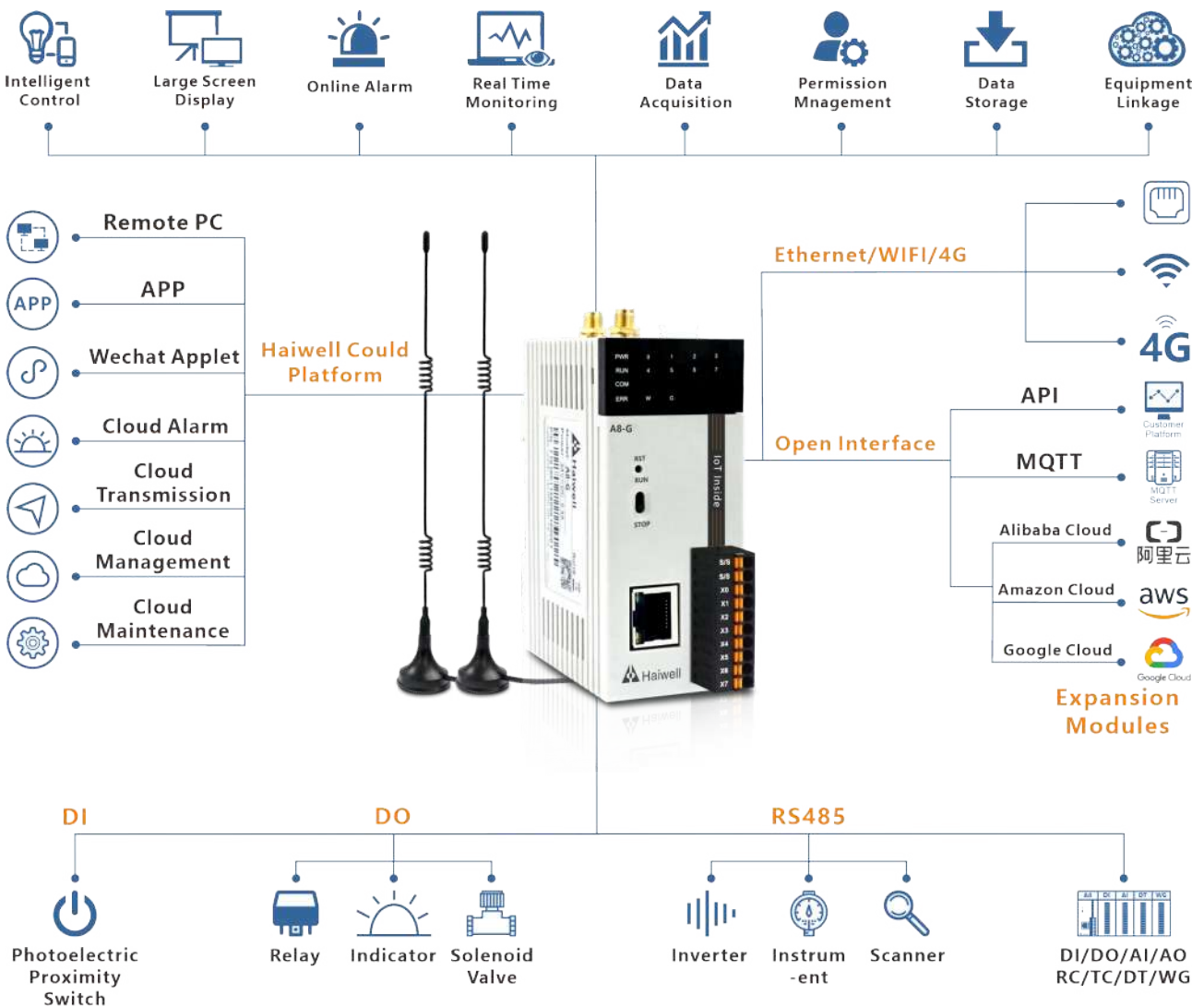
## Product Features

- Support the full function of PLC and gateway.
- Download HMI program in gateway and use mobile phone as a monitor.
- Enable simple connection between gateway, HMI, mobile phone, tablet, computer, TV and camera in local area network.
- Enable simple connection between gateway, HMI, mobile phone, tablet, computer, TV and camera over the Internet.
- Allow remote access for multiple concurrent users without SCADA in the cloud or VNC connection.
- Provide data transmission and data storage in any public or private server.
- Integrate data with ERP, MES or other applications by MQTT, OPC UA, HTTP, TCP and etc.
- Embed the display of HMI in other applications like software, APP and etc.
- Use mobile phone as a scanner to scan barcode and enter information in HMI.
- Apply to data visualization or centralized control on large screen by TVBOX.

## PLC + HMI without screen all-in-one machine

A8 series Intelligent PLC is a small size, compact Internet of things Intelligent PLC, as a high cost performance product launched by Haiwell. A8 integrated PLC, HMI, Intelligent gateway, multi-functional RTU, data transmission DTU functions as one, without any external IoT module. PLC, gateway integration design, small volume, increasing space utilization, greatly simplifying the site wiring construction and reducing the cost of operation and maintenance. One device easily realizes the remote operation and maintenance of PLC, data acquisition, edge calculation and analysis ,so that the engineer saves time, effort and worry.

A8 supports all functions of PLC and HMI. At the same time, it can also expand 15 A series PLC modules, through Haiwell Happy PLC programming software and Haiwell Cloud SCADA for programming management. It can connect to the Haiwell Internet of Things(IoT) Cloud platform through WiFi/ 4G/ Ethernet, and connect to Alibaba Cloud, Amazon cloud and other mainstream IoT platforms through MQTT protocol, so that can fully tap the IoT capability of equipment, and help enterprises realize the leap from traditional factory Information to cloud remote information. The more efficient monitoring and management of devices, and the scheduling of the production resource, greatly improve the operational efficiency of industrial applications. It is a big step forward to intelligent manufacturing.




# Intelligent Gateway XBOX

"Non-Screen Intelligent HMI With IO Points"

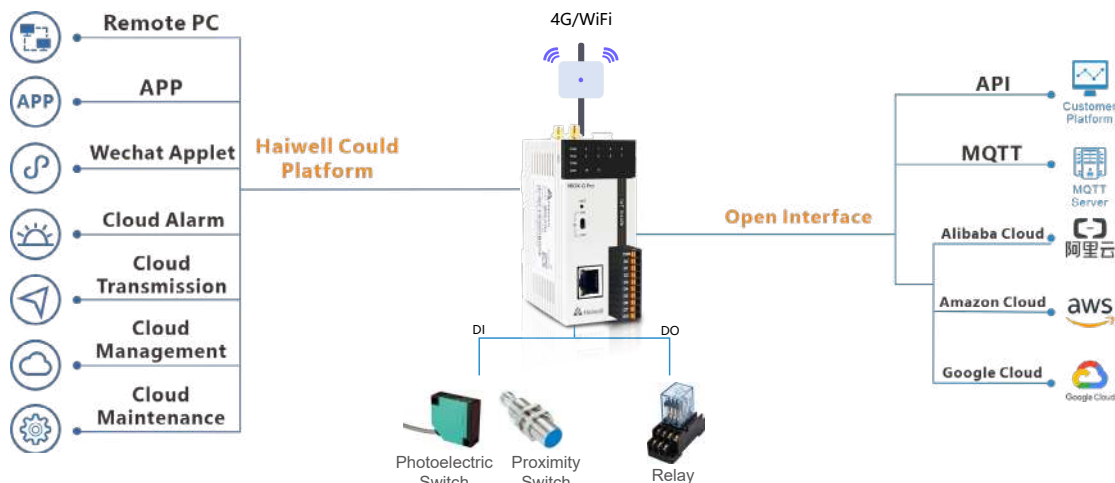


Built-in IO points. Use mobile as local screen

Model	Storage	I/O	LAN	COM	Satellite Positioning	WIFI	Wireless Network	Dimension W×H×D
XBOX	4G + 512M	8 DI	1	1		Yes		 40×95×69mm
XBOX-G	4G + 512M	8 DI	1	1		Yes	China 4G	
XBOX-GP	4G + 512M	8 DI	1	1	Yes		China 4G	
XBOX-E	4G + 512M	8 DI	1	1		Yes	Global 4G	
XBOX Pro	4G + 512M	8 DI/DO, User-defined	1	1		Yes		
XBOX-G Pro	4G + 512M	8 DI/DO, User-defined	1	1		Yes	China 4G	
XBOX-GP Pro	4G + 512M	8 DI/DO, User-defined	1	1	Yes		China 4G	
XBOX-E Pro	4G + 512M	8 DI/DO, User-defined	1	1		Yes	Global 4G	


## Product Features

- Download HMI program in gateway and use mobile phone as a monitor.
- Enable simple connection between gateway, HMI, mobile phone, tablet, computer, TV and camera in local area network.
- Enable simple connection between gateway, HMI, mobile phone, tablet, computer, TV and camera over the Internet.
- Allow remote access for multiple concurrent users without SCADA in the cloud or VNC connection.
- Provide data transmission and data storage in any public or private server.
- Integrate data with ERP, MES or other applications by MQTT, OPC UA, HTTP, TCP and etc.
- Embed the display of HMI in other applications like software, APP and etc.
- Use mobile phone as a scanner to scan barcode and enter information in HMI.
- Apply to data visualization or centralized control on large screen by TVBOX.
- Provide 8-channel configurable digital I/O.



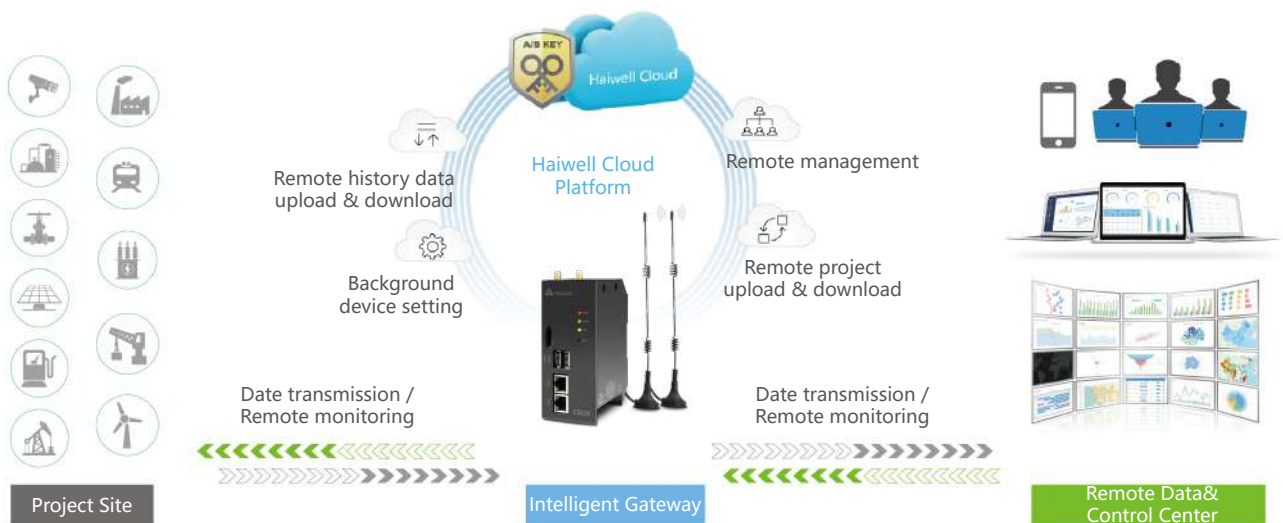
# Intelligent Gateway CBOX



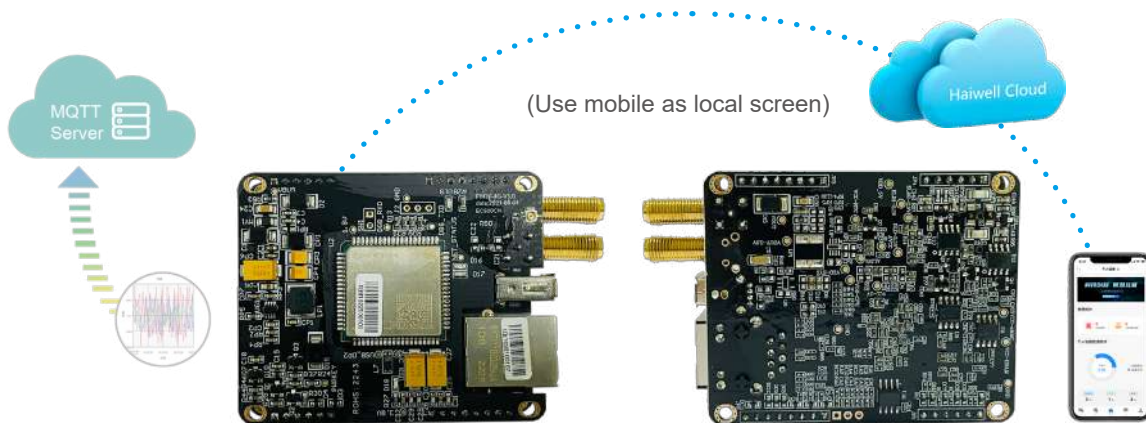
Mode	Storage	LAN	USB	COM	Voice	Satellite Positioning	WIFI	Wireless Network	Dimension W×H×D
CBOX	4G + 512M	2	2	2	Yes		Yes		 50x120x85mm
CBOX-G	4G + 512M	2	2	2	Yes		Yes	China 4G	
CBOX-GP	4G + 512M	2	2	2	Yes	Yes		China 4G	
CBOX-E	4G + 512M	2	2	2	Yes		Yes	Global 4G	


## Product Features

- Download HMI program in gateway and use mobile phone as a monitor.
- Enable simple connection between gateway, HMI, mobile phone, tablet, computer, TV and camera in local area network.
- Enable simple connection between gateway, HMI, mobile phone, tablet, computer, TV and camera over the Internet.
- Allow remote access for multiple concurrent users without SCADA in the cloud or VNC connection.
- Provide data transmission and data storage in any public or private server.
- Integrate data with ERP, MES or other applications by MQTT, OPC UA, HTTP, TCP and etc.
- Embed the diplay of HMI in other applications like software, APP and etc.
- Include intelligent functions such as TTS output, intercom, audio playing, video surveillance and etc.
- Use mobile phone as a scanner to scan barcode and enter infomation in HMI.
- Apply to data visualization or centralized control on large screen by TVBOX.
- Support Beidou positioning and trajectory tracking.



# Embedded Intelligent gateway EBOX

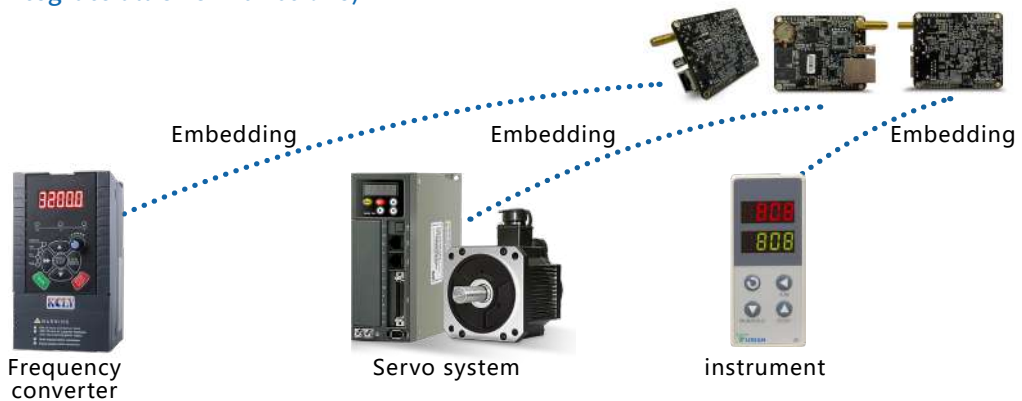


Model	Storage	LAN	USB	COM	WIFI	Wireless Network	Dimension W×H×D
EBOX	4G + 512M	1	1	2	Yes		 50x70mm
EBOX-G	4G + 512M	1	1	2	Yes	China 4G	

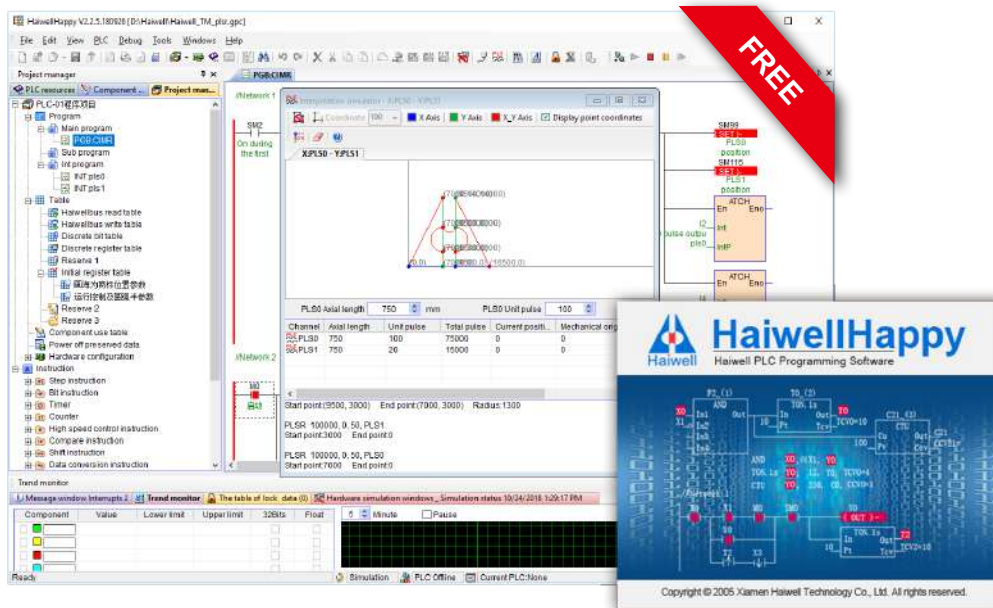
## Product Features

- Download HMI program in gateway and use mobile phone as a monitor.
- Enable simple connection between gateway, HMI, mobile phone, tablet, computer, TV and camera in local area network.
- Enable simple connection between gateway, HMI, mobile phone, tablet, computer, TV and camera over the Internet.
- Allow remote access for multiple concurrent users without SCADA in the cloud or VNC connection.
- Provide data transmission and data storage in any public or private server.
- Integrate data with ERP, MES or other applications by MQTT, OPC UA, HTTP, TCP and etc.
- Embed the display of HMI in other applications like software, APP and etc.
- Include intelligent functions such as TTS output, intercom, audio playing, video surveillance and etc.
- Use mobile phone as a scanner to scan barcode and enter information in HMI.
- Apply to data visualization or centralized control on large screen by TVBOX.
- Embed gateway into other hardware devices and make devices intelligent.

(Integrate all CBOX functions)



# Haiwell Happy PLC Programming Software



HaiwellHappy is the programming software for Haiwell PLC. It accordance with IEC 61131-3 standard, supports 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.

### Built-in PLC simulator

Haiwell PLC programming software supports internal simulator, 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 simulatly 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.

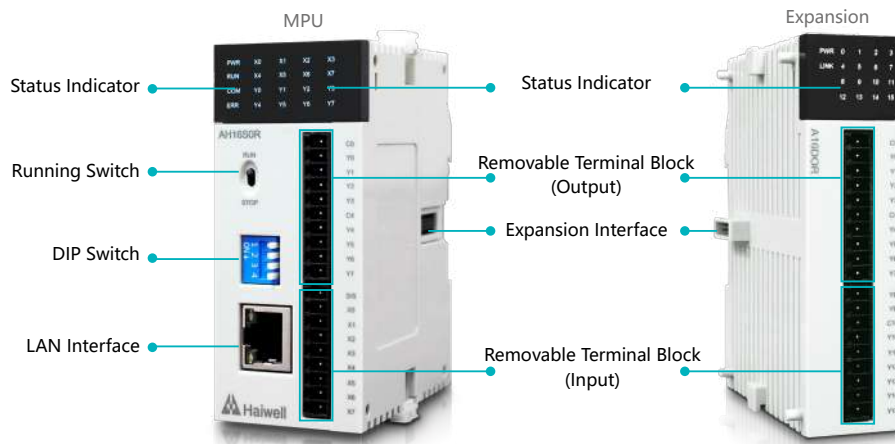
### PLC executable file Generation

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 excutable 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.


## Card-type PLC (A Series PLC)




- Follow IEC-61131 standard and pass CE certification and ISO certification.
- Possess proprietary intellectual property rights and allow to customize PLC.
- Innovative programming software which provides comprehensive simulation including Interpolation and communication.
- 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 customized protocol.
- Support motion control including linear interpolation, circular interpolation, origin return, reverse clearance compensation and defining electrical origin.




### AC Series Card-type PLC MPU

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



### AT Series Card-type PLC MPU

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


## AH Series Card-type PLC MPU

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


### Digital I/O Modules

Model	Specification				Dimension WxHxD(mm)
24VDC	DI	DO	COM Port	Power	 25×95×65   25×95×65
A08DI	8		/	<2.4W	
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	
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	 25×95×65
A04AI	4		12bit	/	<2.4W	
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	 25×95×65
A01WG	Load cell module	1-channel	24bit	<4.8W	RS485, support remote IO function	
A02WG		2-channel	24bit	<7.2W	/	

### Temperature I/O Modules

Model	Specification				Dimension WxHxD(mm)
24VDC	Sensor	Conversion Accuracy	COM Port	Power	 25×95×65
A04TC	4 Thermocouple	16bit	/	<2.4W	
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, Freedom communication protocol, Haiwellbus, 1200~115200bps Supports 8,N,1	<2.4W	 25×95×65

## Classic PLC



- Follow IEC-61131 standard and pass CE certification and ISO certification.
- Possess proprietary intellectual property rights and allow to customize PLC.
- Innovative programming software which provides comprehensive simulation including Interpolation and communication.
- Provide remote access to connect PLCs by Haiwell cloud.
- Allow Ethernet port and up to five RS232/RS485 serial ports to work together.
- Support Modbus TCP, Haiwellbus TCP, Modbus RTU/ASCII, Haiwellbus and the customized protocol.
- Support motion control including linear interpolation, circular interpolation, origin return, reverse clearance compensation and defining electrical origin.
- Use expansion module as remote IO through RS485 or Ethernet port.




## PLC MPU

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

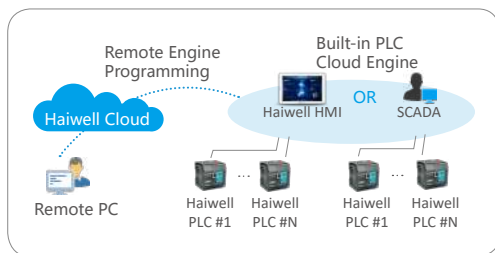
Ethernet Model		Model		Specification				Dimension WxHxD
24V DC	220V AC	24V DC	220V AC	DI	DO	Communication	Max. Exp.	
C10S0R-e	C10S2R-e	C10S0R	C10S2R	6	4 Relay	RS232 + RS485	N/A	93×95×82mm
C10S0T-e	C10S2T-e	C10S0T	C10S2T	6	4 Transistor NPN	RS232 + RS485	N/A	
C10S0P-e	C10S2P-e	C10S0P	C10S2P	6	4 Transistor 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	131×95×82mm
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	

- 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.

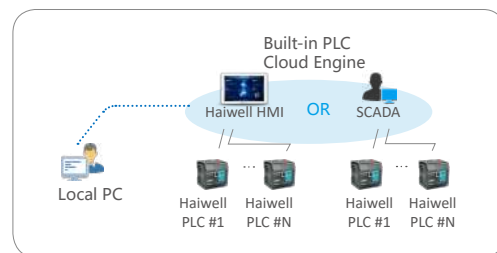
## T Series PLC MPU (-e : Built-in Ethernet port)

Ethernet Model		Model		Specification									Dimension WxHxD
24V DC	220V AC	24V DC	220V AC	DI	DO	AI	AO	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	 93x95x82mm	
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		
T16M0R-e	T16M2R-e	T16M0R	T16M2R	8	6 Relay	1	1			RS232 + RS485, Max 5 ports	7		
T16M0T-e	T16M2T-e	T16M0T	T16M2T	8	6 Transistor NPN	1	1			RS232 + RS485, Max 5 ports	7		
T20M0R-e	T20M2R-e	T20M0R	T20M2R	8	6 Relay	4	2			RS232 + RS485, Max 5 ports	7		
T20M0T-e	T20M2T-e	T20M0T	T20M2T	8	6 Transistor NPN	4	2			RS232 + RS485, Max 5 ports	7	 131x95x82mm	
T24S0R-e	T24S2R-e	T24S0R	T24S2R	16	8 Relay			2 Channels A/B phase, 4 points 200KHz		RS232 + RS485, Max 5 ports	7		
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		
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	 177x95x82mm	
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		
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 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.






Remote Programming

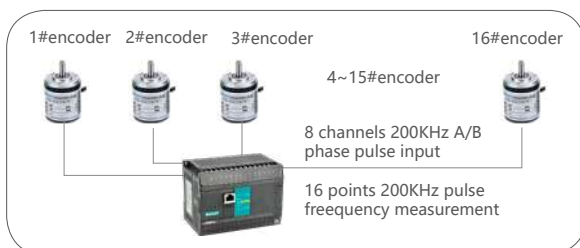


Local Programming

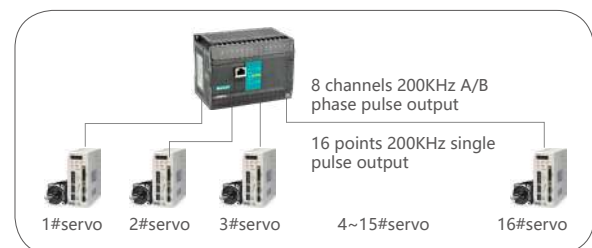
## H Series PLC MPU (-e : Built-in Ethernet port)

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	6 Channels A/B phase, 12 points 200KHz	6 Channels A/B phase, 12 points 200KHz	RS232 + RS485, Max 5 ports	7	
H24S0P-e	H24S2P-e	H24S0P	H24S2P	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	
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	6 Channels A/B phase, 12 points 200KHz	6 Channels A/B phase, 12 points 200KHz	RS232 + RS485, Max 5 ports	7	
H32S0P-e	H32S2P-e	H32S0P	H32S2P	16	16 Transistor PNP	6 Channels A/B phase, 12 points 200KHz	6 Channels A/B phase, 12 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	8 Channels A/B phase, 16 points 200KHz	8 Channels A/B phase, 16 points 200KHz	RS232 + RS485, Max 5 ports	7	
H40S0P-e	H40S2P-e	H40S0P	H40S2P	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	
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	8 Channels A/B phase, 16 points 200KHz	8 Channels A/B phase, 16 points 200KHz	RS232 + RS485, Max 5 ports	7	
H60S0P-e	H60S2P-e	H60S0P	H60S2P	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	

- 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.



Haiwell PLC with 16 encoders








Haiwell PLC with 16 servos

## Classic PLC Panel



## PLC Expansion

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

Ethernet Model	Model	Specification			Dimension WxHxD
24V DC	24V DC	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 IO function	 70×95×82mm
	H16DOR		16 Relay	RS485, supports remote IO function	
	H16DOT		16 Transistor NPN	RS485, supports remote IO function	
	H16DOP		16 Transistor PNP	RS485, supports remote IO function	
	H16XDR	8	8 Relay	RS485, supports remote IO function	
	H16XDT	8	8 Transistor NPN	RS485, supports remote IO function	
	H16XDP	8	8 Transistor PNP	RS485, supports remote IO function	
H24DI-e	H24DI	24		RS485, supports remote IO function	 93×95×82mm
H24XDR-e	H24XDR	12	12 Relay	RS485, supports remote IO function	
H24XDT-e	H24XDT	12	12 Transistor NPN	RS485, supports remote IO function	
H24XDP-e	H24XDP	12	12 Transistor PNP	RS485, supports remote IO function	
H40DI-e	H40DI	40		RS485, supports remote IO function	 131×95×82mm
H36DOR-e	H36DOR		36 Relay	RS485, supports remote IO function	
H36DOT-e	H36DOT		36 Transistor NPN	RS485, supports remote IO function	
H36DOP-e	H36DOP		36 Transistor PNP	RS485, supports remote IO function	
H40XDR-e	H40XDR	20	20 Relay	RS485, supports remote IO function	
H40XDT-e	H40XDT	20	20 Transistor NPN	RS485, supports remote IO function	
H40XDP-e	H40XDP	20	20 Transistor PNP	RS485, supports remote IO function	
H64XDR-e	H64XDR	32	32 Relay	RS485, supports remote IO function	 177×95×82mm
H64XDT-e	H64XDT	32	32 Transistor NPN	RS485, supports remote IO function	
H64XDP-e	H64XDP	32	32 Transistor PNP	RS485, supports remote IO function	



177×95×82mm



131×95×82mm



93×95×82mm



70×95×82mm



30×95×82mm

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

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

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

Ethernet Model	Model	Specification			Dimension WxHxD
		Sensor	Conversion accuracy	Communication	
24V DC	24V DC				
	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 IO function	
	H04RC	4 thermal resistance	16 bits	RS485, supports remote IO function	70×95×82mm
	H04TC	4 thermocouple	16 bits	RS485, supports remote IO function	
	H08TC	8 thermocouple	16 bits	RS485, supports remote IO function	
H08RC-e	H08RC	8 thermal resistance	16 bits	RS485, supports remote IO function	93×95×82mm

## Load Cell Modules

Model	Specification			Dimension WxHxD
	Specification	Conversion Accuracy	Communication	
24V DC				
H01WG	1 channel weighing	24 bits	RS485, supports remote IO function	30×95×82mm
H02WG	2 channels weighing	24 bits	/	

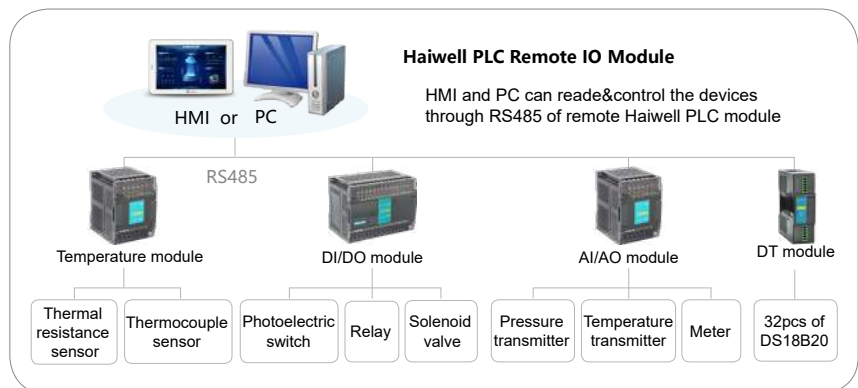
## Communication Modules

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

### 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 installed independently without PLC system points limitation.

Long distance. Flexible configuration.  
Low cost.



# Haiwell PLC

Haiwell PLC includes **Card-type white PLC (A series PLC)** and **Classic-type black PLC**. It 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 full 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.



## Haiwell PLC Features

- **Ethernet + :** Host PLC and remote modules support Ethernet communication, host PLC support Ethernet port and 5 RS232/RS485 serial communication ports working simultaneously. Support multilevel networking, support remote programming, debugging, monitoring and data exchange. Easy to work with other PLC modules, HMI and PC via Ethernet port.
- **The firmware upgrade function:** Taking the lead in the function of realizing firmware upgrade in a small programmable controller. You can upgrade the system firmware through the firmware upgrade function for free, herefore the PLCs that you bought previously can also to have the latest features from Haiwell company.
- **Rich network communication function:** CPU host PLC supports built-in Ethernet port and 2 serial RS232/RS485 communication ports, it is expandable to 1 Ethernet port and 5 serial RS232/RS485 ports, each port can be programmed and connects to network, and all of them can be used as masters or slaves. It support multilevel networking and a variety of human-machine interface and configuration software. It can also connect to network with any third-party devices which have communication capabilities (such as inverters, instruments, barcode readers, etc.).
- **Supporting for multiple communication protocols:** Supports built-in Modbus TCP, Modbus RTU/ASCII protocol, free communication protocol and Haiwell Company's Haiwellbus TCP and Haiwellbus high-speed communication protocols. No matter which kind of communication protocols, it only needs a simple communication instruction when dealing with complex communication functions. You will no longer troubled by the problems as communications port's conflicts, sending&receiving control, communications interrupt handling issues and you can use a variety of protocols to exchange data easily by mixing them up in the program.
- **High-speed pulse counting function:** Supports 8-channels duplex high-speed (200KHz) pulse counting, and 7 kinds of counting mode (pulse / direction 1 octave, pulse / direction 2 octave, forward / reverse pulse 1 octave, forward / reverse pulse 2 octave, A / B phase pulse 1 octave, A / B phase pulse 2 octave, A / B phase pulse 4 octave), and three kinds of comparisons (single-stage comparison, the absolute mode comparison, the relative mode comparison), supports 48 segments comparison fixed value, with self-learning function.
- **High-speed pulse frequency measurement:** Supports 16-channel (200KHz) high-speed pulse frequency measurement, support the ways of time or pulses to measure the frequency.
- **High-speed pulse output:** Supports 8-channel duplex high-speed (200KHz) pulse output, support for acceleration and deceleration pulse output, multi-segment envelope pulse output function, a unique sync pulse output function makes it easy to achieve precise synchronization control. Stand-alone support 16-channel pulse width modulation (PWM), can drive 16 servo or stepper motors.
- **Motion control function:** Each model support for 8-channel (200KHz) motion control, supports arbitrary 2-channel linear interpolation, circular interpolation, support follower pulse output, absolute address, relative address, backlash compensation, original point return, definition of electrical origin.
- **PID control function:** support 32 channels increment PID, support 32 channels auto tuning PID and 32 channels fuzzy temperature control, work with TTC temperature curve control, VC valve control and other instructions to easily control complicated objects in the industry site.
- **Edge capture and interrupts:** CPU supports 8-channel up and down along the catch and interrupt functions, all digital inputs support signal filtering settings, all digital outputs remains set to support power output. Provide 52 real-time interrupts.
- **Powerful analog processing function:** AI register accesses the analog input directly, analog input support engineering conversion, sampling frequency settings, and zero correction. Available AQ registers control the analog output directly, analog output support engineering conversion and can be configured to maintain output.
- **Strong password protection function:** Three levels of password protection function (program files password, each block password, PLC hardware password) and prohibits the application to upload.
- Self-diagnostic function, power failure protection function, calendar (RTC), floating point operations, etc.



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Haiwell Cloud APP



Haiwell WeChat



The parameters of product are subject to changes without prior notice.  
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