

# Haiwell Products Catalog



SmartLink PLC Controller  
SmartLink HMI  
SmartLink Gateway  
SmartLink Core (Screen Controller) TVBOX  
PLC Controller  
Haiwell Cloud  
SmartLink Cloud  
Cloud SCADA



## 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 SmartLink Cloud,SmartLink PLC,SmartLink HMI,SmartLink Gateway,PLC,Cloud SCADA software (free), SmartLink 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.

Broaden heart like Sea. Good faith makes good work!

### 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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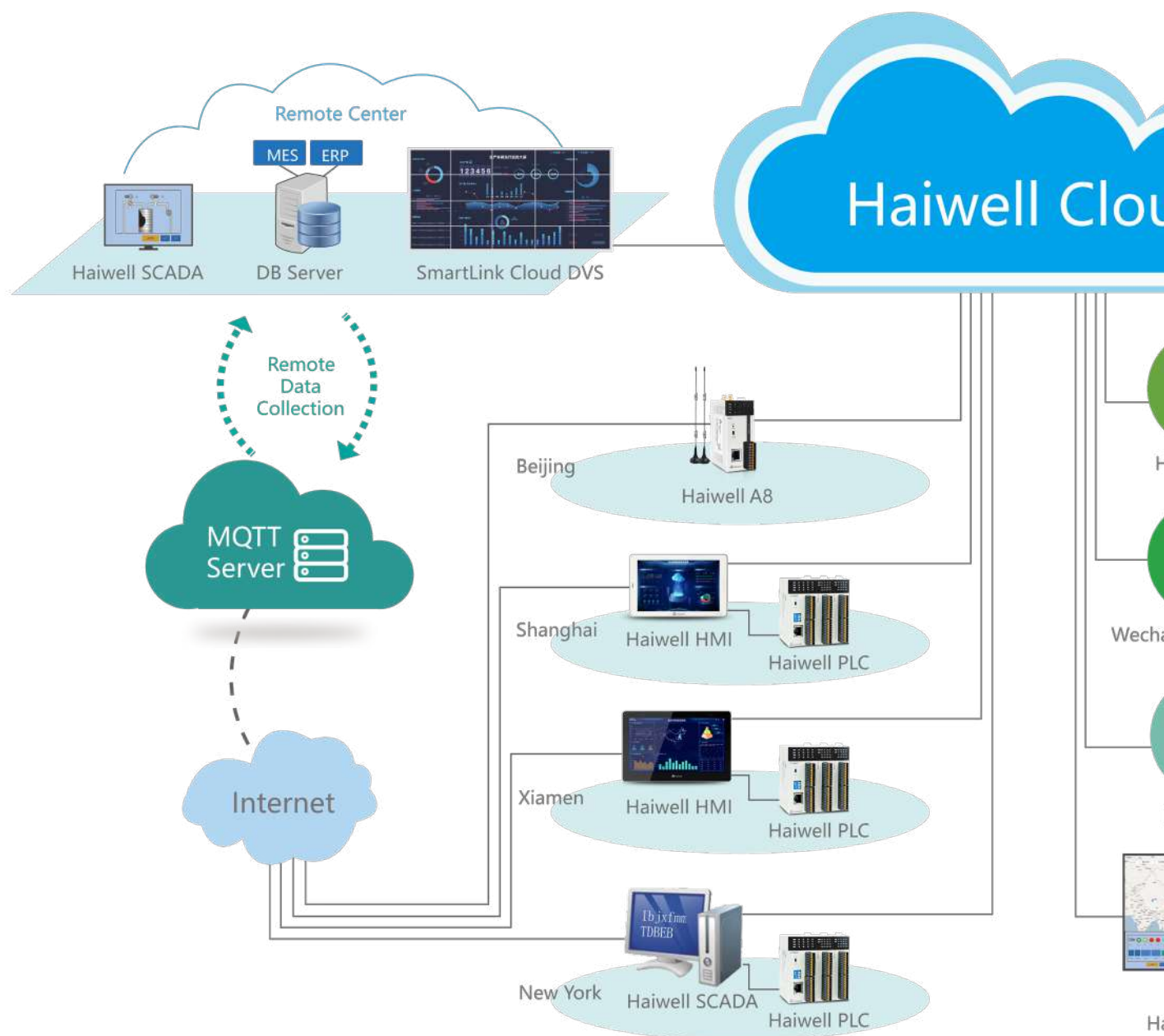
## Haiwell Cloud Platform

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. 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. You can login to the Cloud platform via <https://cloud.haiwell.com> or Haiwell Cloud APP.

Haiwell Cloud Network Diagram





## Haiwell Cloud APP

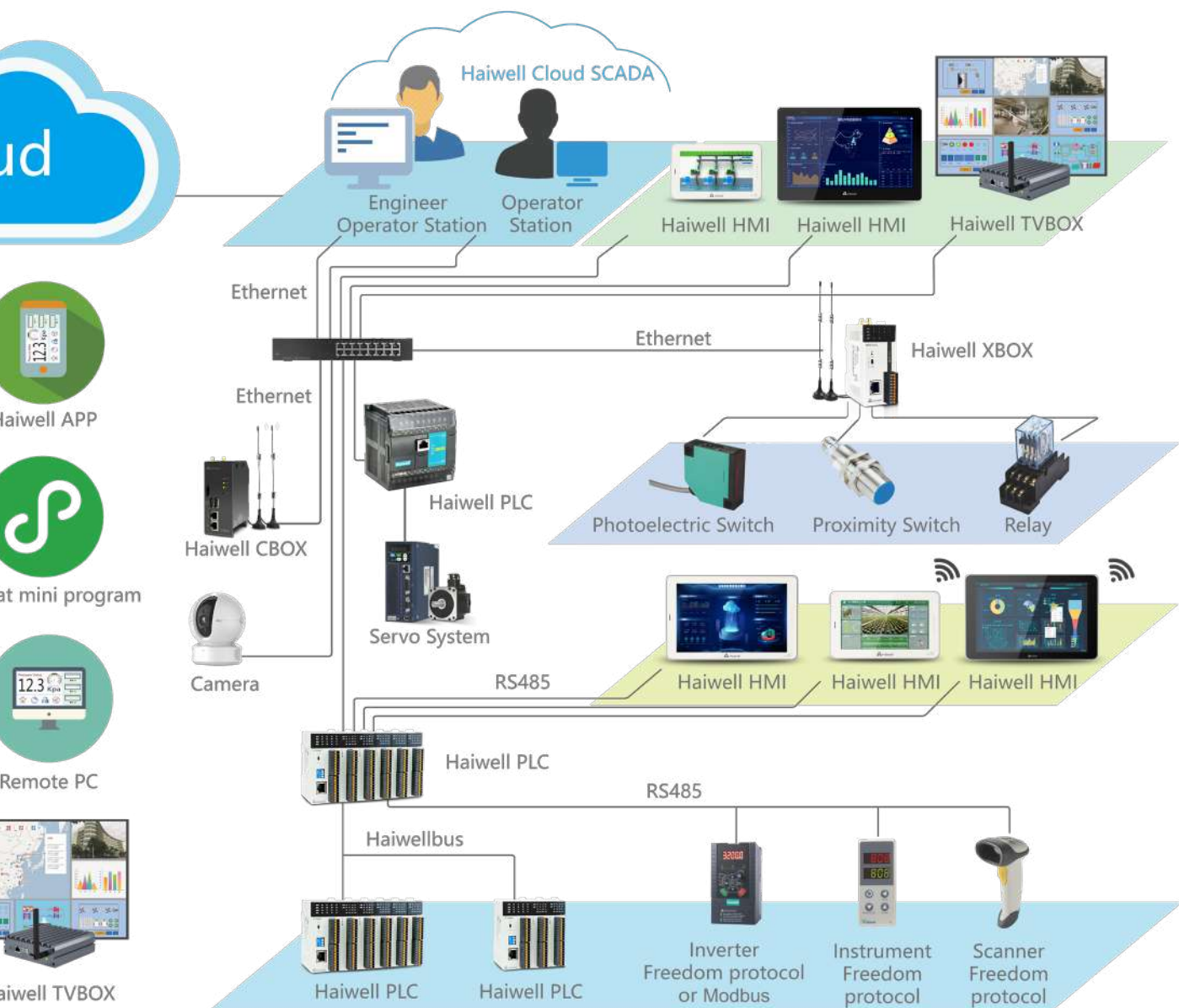
Haiwell Cloud APP support many platform terminals, such as PC, iPad, Android and iOS. Users can search "Haiwell Cloud" in any APP application store and download it freely or scan the QR code of Haiwell official APP to obtain it directly.

### 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



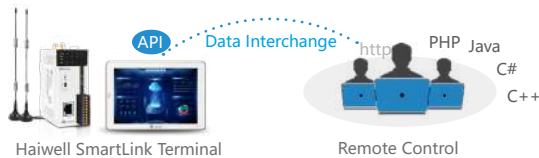
Haiwell APP



# Haiwell IIoT Platform Features

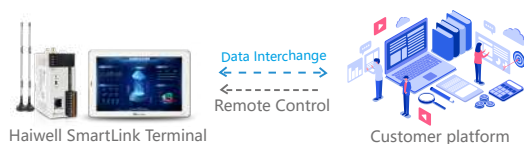
## Web API interface

- 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.



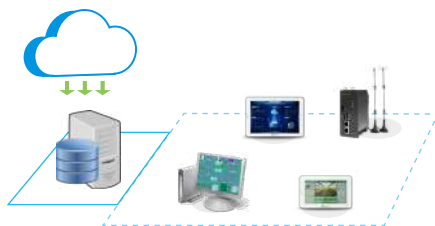
## Third party IoT Platform

- 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.



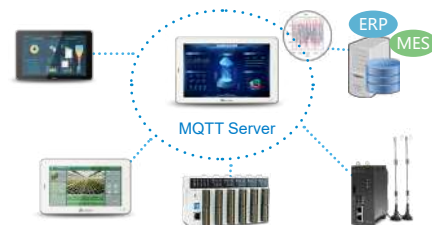
## Innovative A/B Key Security Mechanism

- 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.



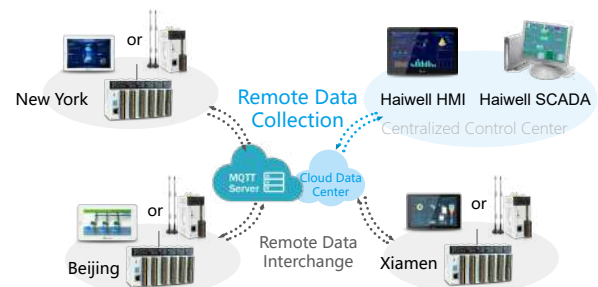
## Support MQTT protocol & built-in MQTT server

- 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 equipments 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 IIoT 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.



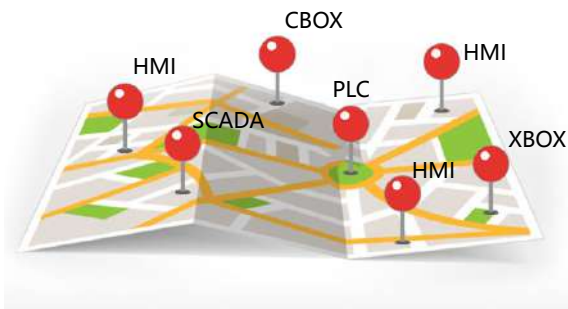
## Haiwell Cloud Alarm

- 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.



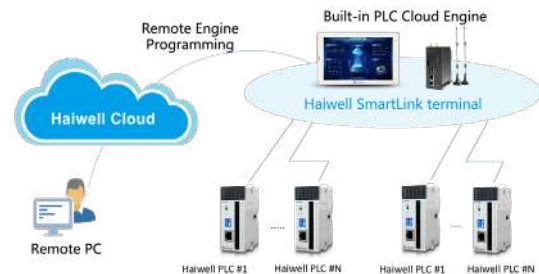
## Haiwell Cloud Map

- You 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.



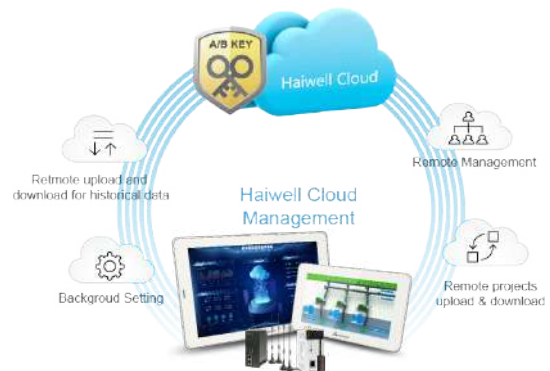
## Haiwell Cloud Transmission

- 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.



## Haiwell SmartLink Cloud



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

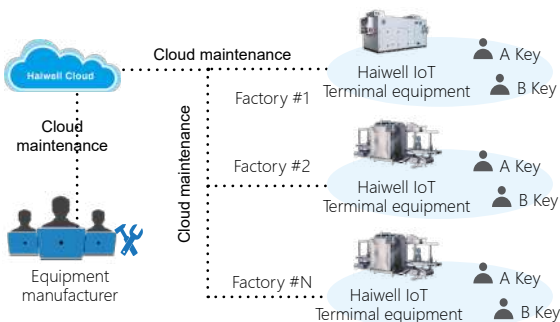
### Custom Logo

- 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 (Equipment manufacturer maintains identity)

- Different from A/B key, Cloud maintenance provides equipment manufacturers with exclusive maintenance identities
- Configure and enable Cloud maintenance in the project to facilitate mass production of equipment.
- 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 Equipment

- 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.





## SmartLink 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	112X30X112mm
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	133X44X133mm

### 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.




### SmartLink center



# A Series SmartLink HMI



RFID support Built-in voice, microphone and speaker

Model	TFT Screen	Storage	LAN+COM	USB	intelligentize	Voice	RFID	GPS	WiFi	Wireless	Hole Size	Dimension W*H*D
A7	7" 1024*600 HD	4G+512M	1+3	1	speaker	Yes					187x114mm Chamfer: (R9mm)	 194x121x32mm
A7-G		4G+512M	1+3	1	speaker	Yes				*Built in eSIM		
A7-W		4G+512M	1+3	1	speaker	Yes			Yes			
A7-GP		4G+512M	1+3	1	speaker	Yes		Yes		*Built in eSIM		
A7-GW		4G+512M	1+3	1	speaker	Yes			Yes	*Built in eSIM		
A7-E		4G+512M	1+3	1	speaker	Yes				Global 4G		
A7-EW		4G+512M	1+3	1	speaker	Yes			Yes	Global 4G		
A7 Pro		4G + 1G	2+3	2	microphone speaker	Yes	Yes					
A7 Pro-G		4G + 1G	2+3	2	microphone speaker	Yes	Yes			*Built in eSIM		
A7 Pro-W		4G + 1G	2+3	2	microphone speaker	Yes	Yes		Yes			
A7 Pro-GP		4G + 1G	2+3	2	microphone speaker	Yes	Yes	Yes		*Built in eSIM		
A7 Pro-GW		4G + 1G	2+3	2	microphone speaker	Yes	Yes		Yes	*Built in eSIM		
A7 Pro-E		4G + 1G	2+3	2	microphone speaker	Yes	Yes			Global 4G		
A10	10.1" 1280*800 HD	4G+512M	1+3	1	speaker	Yes					254x161mm Chamfer: R7mm	 261x168x33mm
A10-G		4G+512M	1+3	1	speaker	Yes				*Built in eSIM		
A10-W		4G+512M	1+3	1	speaker	Yes			Yes			
A10-GP		4G+512M	1+3	1	speaker	Yes		Yes		*Built in eSIM		
A10-GW		4G+512M	1+3	1	speaker	Yes			Yes	*Built in eSIM		
A10-E		4G+512M	1+3	1	speaker	Yes				Global 4G		
A10-EW		4G+512M	1+3	1	speaker	Yes			Yes	Global 4G		
A10 Pro		4G + 1G	2+3	2	microphone speaker	Yes	Yes					
A10 Pro-G		4G + 1G	2+3	2	microphone speaker	Yes	Yes			*Built in eSIM		
A10 Pro-W		4G + 1G	2+3	2	microphone speaker	Yes	Yes		Yes			
A10 Pro-GP		4G + 1G	2+3	2	microphone speaker	Yes	Yes	Yes		*Built in eSIM		
A10 Pro-GW		4G + 1G	2+3	2	microphone speaker	Yes	Yes		Yes	*Built in eSIM		
A10 Pro-E		4G + 1G	2+3	2	microphone speaker	Yes	Yes			Global 4G		
A15	15.6" 1920*1080 HD Capacitive touch	4G + 1G	2+3	2	speaker	Yes					383x245 Chamfer: R8mm	 394x256x43mm
A15-G		4G + 1G	2+3	2	speaker	Yes				*Built in eSIM		
A15-W		4G + 1G	2+3	2	speaker	Yes			Yes			
A15-GW		4G + 1G	2+3	2	speaker	Yes			Yes	*Built in eSIM		
A15-E		4G + 1G	2+3	2	speaker	Yes				Global 4G		
A15-EW		4G + 1G	2+3	2	speaker	Yes			Yes	Global 4G		

\*The only supported country is China

## Product Features





- Enable simple connection between HMI, mobile phone, tablet, computer, TV, camera and other HMIs in local areanetwork.
- 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 diplay of HMI in other applications like software, APP and etc.
- Include intelligent functions such as TTS output, intercom, audio playing, video surveillance, RFID/NFC recognition 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.
- Improve the positioning accuracy by using BeiDou or GPS.
- Use innovative design including HD screen, narrow bezel and optional features like eSIM, microphone, speaker and RFID reader.

# D Series SmartLink HMI

Piano Black Color & Narrow Bezel Design & High-end appearance



4.3" /7" /10.1" /15.6 "

Model	TFT Screen	Storage	LAN+COM	USB	Voice	WiFi	Wireless	Hole Size	Dimension W*H*D
D4	4.3" 800*480 HD	4G + 512M	1+2	1	Yes			132×80mm Chamfer: (R6mm)	 137×85×30mm
D4-G		4G + 512M	1+2	1	Yes		China 4G		
D4-W		4G + 512M	1+2	1	Yes	Yes			
D4-E		4G + 512M	1+2	1	Yes		Global 4G		
D7	7" 1024*600 HD	4G + 1G	2+3	2	Yes			187×114mm Chamfer: (R9mm)	 194×121×32mm
D7-G		4G + 1G	2+3	2	Yes		China 4G		
D7-W		4G + 1G	2+3	2	Yes	Yes			
D7-E		4G + 1G	2+3	2	Yes		Global 4G		
D10	10.1" 1280*800 HD	4G + 1G	2+3	2	Yes			254×161mm Chamfer: (R7mm)	 261×168×33mm
D10-G		4G + 1G	2+3	2	Yes		China 4G		
D10-W		4G + 1G	2+3	2	Yes	Yes			
D10-E		4G + 1G	2+3	2	Yes		Global 4G		
D15	15.6" 1920x1080	4G + 1G	1+3	2	Yes			383×245mm Chamfer: (R8mm)	 394x256x41mm
D15-G		4G + 1G	1+3	2	Yes		China 4G		
D15-W		4G + 1G	1+3	2	Yes	Yes			
D15-GW		4G + 1G	1+3	2	Yes	Yes	China 4G		
D15-E		4G + 1G	1+3	2	Yes		Global 4G		
D15-EW		4G + 1G	1+3	2	Yes	Yes	Global 4G		

## Product Features

- Enable simple connection between HMI, mobile phone, tablet, computer, TV, camera and other HMIs in local areanetwork.
- 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 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.
- Use innovative design including HD screen, narrow bezel.

## B Series SmartLink HMI



Economical & Convenient Networking IoT Solution

Model	TFT Screen	Storage	LAN+COM	USB	Voice	WiFi	Wireless	Hole Size	Dimension W*H*D
B7H	7" 1024*600 HD	4G+512M	1+2	2	Yes			193×138mm Chamfer: (R3.5mm)	 200×146×37mm
B7H-G		4G+512M	1+2	2	Yes		China 4G		
B7H-W		4G+512M	1+2	2	Yes	Yes			
B7H-E		4G+512M	1+2	2	Yes		Global 4G		
B10S	10.1" 1024*600	4G+512M	1+2	2	Yes			260×202mm Chamfer: (R9mm)	 270×212×35mm
B10S-G		4G+512M	1+2	2	Yes		China 4G		
B10S-W		4G+512M	1+2	2	Yes	Yes			
B10S-E		4G+512M	1+2	2	Yes		Global 4G		

### 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 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.



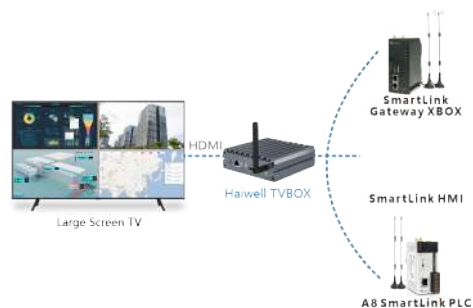
#### Voice broadcast

All models can connect with microphone and speaker by USB to audio adapter and support text to speech, playing audio files, voice intercom, voice broadcast and remote intercom with APP.



#### Mobile scanner

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








## N Series SmartLink HMI



No front and rear enclosures for easy installation and easy modular integration

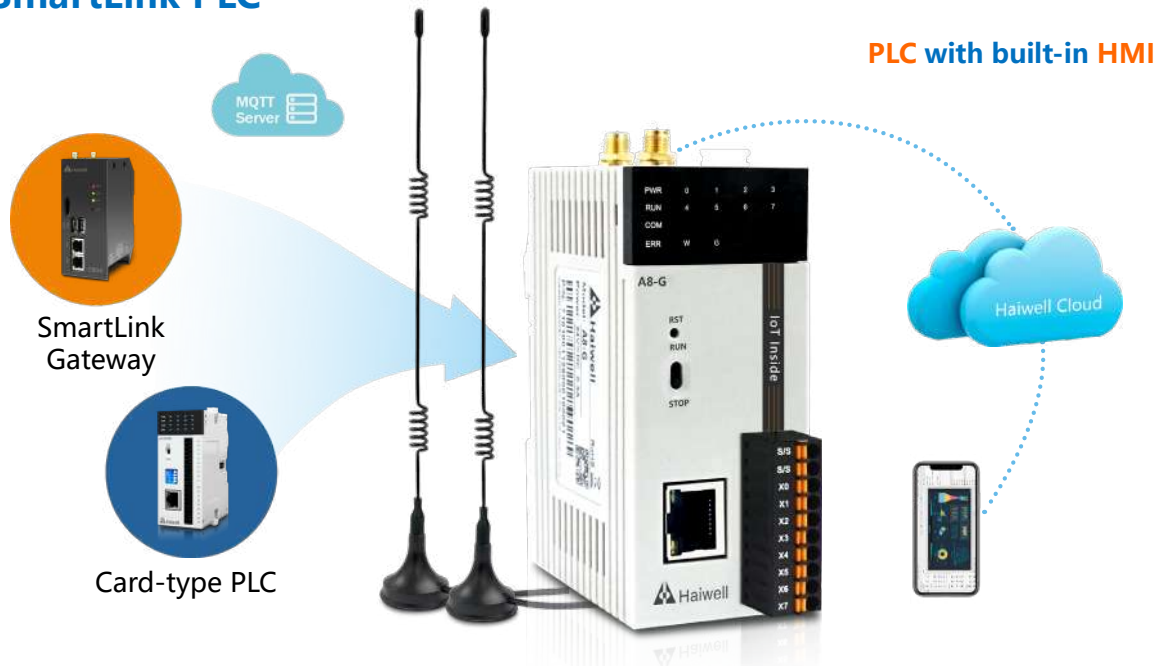
Model	TFT Screen	Storage	LAN+COM	USB	Voice	WiFi	Wireless	Hole Size	Dimension W*H*D
N4	4.3" 800*480 HD	4G+512M	1+2	1	Yes			108×70mm	 125×78×32mm
N4-G		4G+512M	1+2	1	Yes		China 4G		
N4-W		4G+512M	1+2	1	Yes	Yes			
N4-E		4G+512M	1+2	1	Yes		Global 4G		
N7	7" 1024*600 HD	4G+512M	1+2	1	Yes			168×103mm	 184×118×24mm
N7-G		4G+512M	1+2	1	Yes		*Built in eSIM		
N7-W		4G+512M	1+2	1	Yes	Yes			
N7-GW		4G+512M	1+2	1	Yes	Yes	*Built in eSIM		
N10	10.1" 1024*600 HD	4G+512M	1+2	1	Yes			238x146mm	 248x160x23mm
N10-G		4G+512M	1+2	1	Yes		*Built in eSIM		
N10-W		4G+512M	1+2	1	Yes	Yes			
N10-GW		4G+512M	1+2	1	Yes	Yes	*Built in eSIM		

\*The only supported country is China


### Product Features

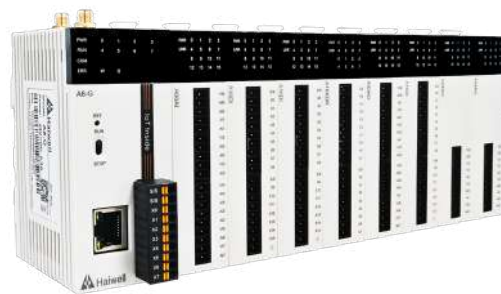
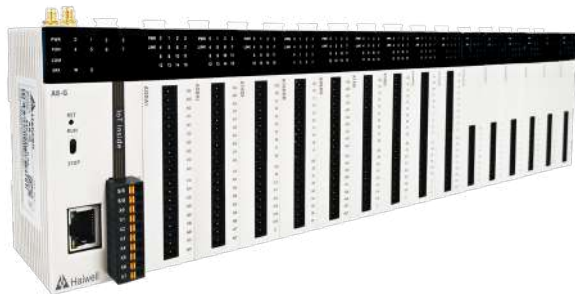
- Enable simple connection between HMI, mobile phone, tablet, computer,TV,camera and other HMIs in local area network
- Enable simple connection between HMI, mobile phone, tablet, computer,TV, camera and other HMIs over the Internet.
- Allow remote access for multiple concurrent users without SCADA in 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 diplay of HMI in other applications like software, APP and etc.
- Include intelligent functions such as TTS output, intercom, audio playing 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.
- Use innovative design including HD screen, design without shell and eSIM.

## A8 SmartLink PLC



Integrated Haiwell Cloud service, no-IoT module is needed

Model	Storage(Flash+RAM)	Max Exp	I/O	LAN	COM	WIFI	Wireless Network	Dimension W*H*D
A8	4G + 512M	15	8 DI	1	1+3	Yes		 40x95x65mm
A8-G	4G + 512M	15	8 DI	1	1+3	Yes	China 4G	
A8-E	4G + 512M	15	8 DI	1	1+3	Yes	Global 4G	



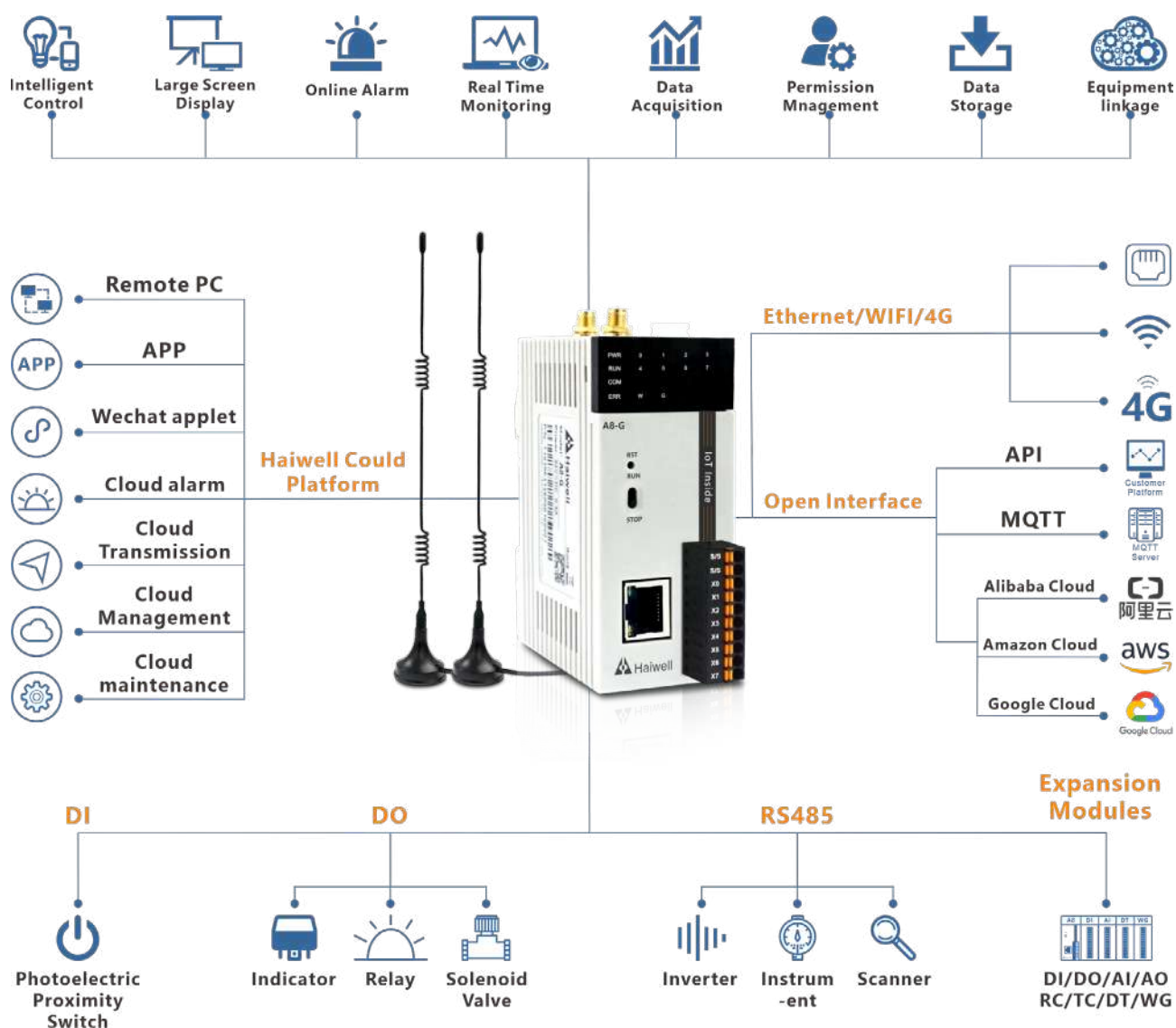
### Product Features

- 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

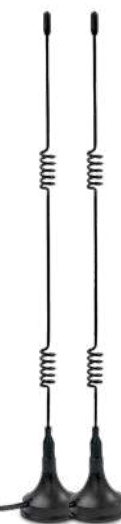
A8 series SmartLink PLC is a small size, compact Internet of things SmartLink PLC, as a high cost performance product launched by Haiwell. A8 integrated PLC, HMI, SmartLink gateway, multi-functional RTU, data transmission DTU functions as one, without any external IoT module. PLC, gateway integration 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.




## SmartLink Gateway XBOX

"Non-Screen SmartLink HMI with IO Points"

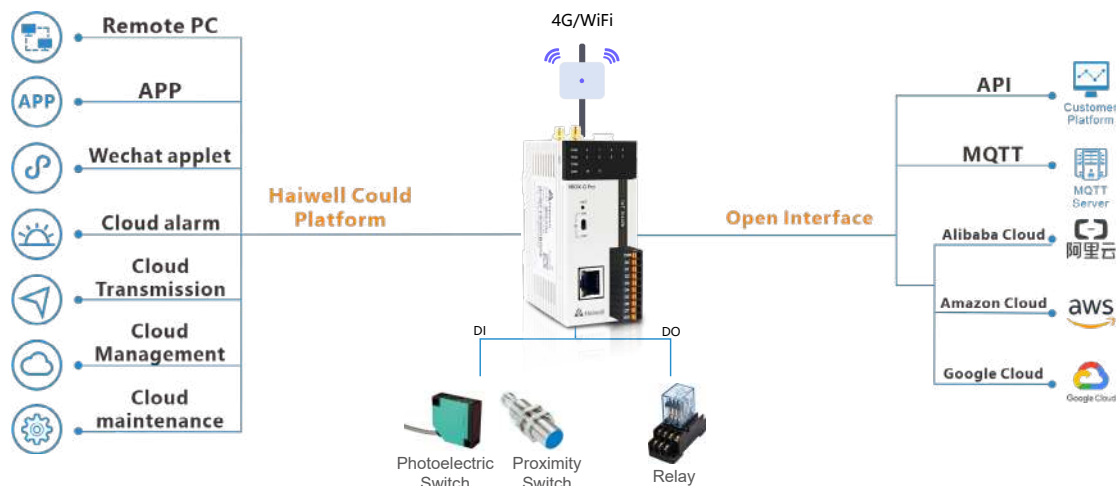


Built-in IO points. Use mobile as local screen

Model	Storage	I/O	LAN	COM	WIFI	Wireless Network	Dimension W×H×D
XBOX	4G + 512M	8 DI	1	1	Yes		 40×95×65
XBOX-G	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-E Pro	4G + 512M	8 DI/DO, User-defined	1	1	Yes	Global 4G	

### Product Features

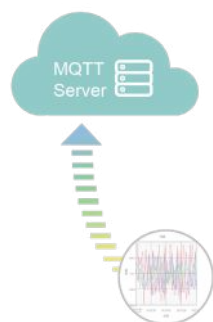
- Download HMI program in gateway and use mobile phone as a monitor.
- Enable simple connection between gateway, HMI, mobile phone, tablet, computer, TV and camera in local area network.
- Enable simple connection between gateway, HMI, mobile phone, tablet, computer, TV and camera over the Internet.
- 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.





## SmartLink Gateway CBOX


"Non-Screen Haiwell SmartLink HMI"



Small Box,  
Big Use.

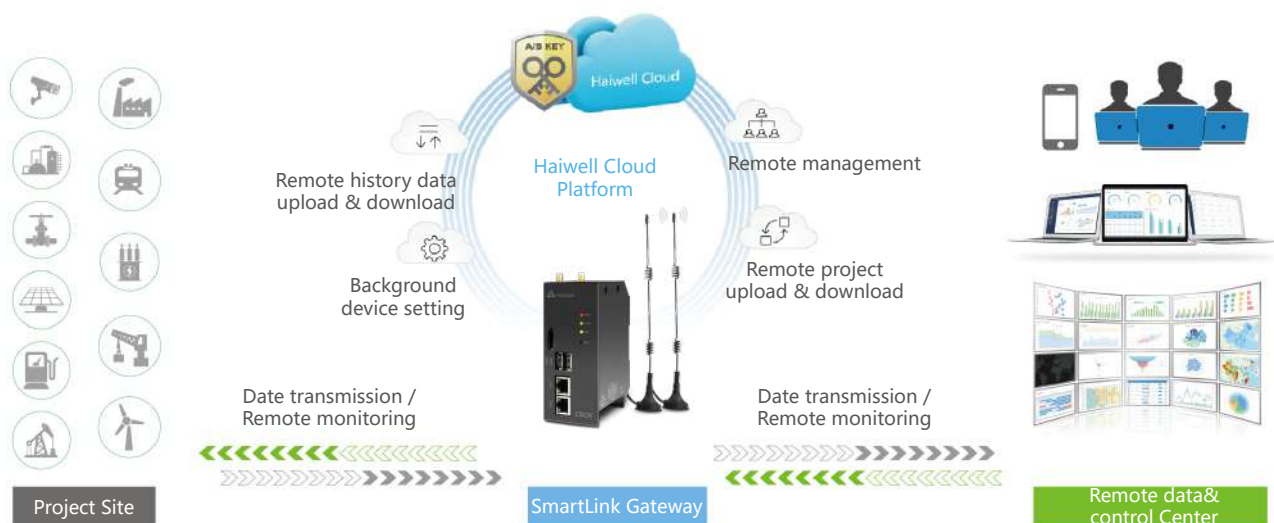


(Use mobile as local screen)

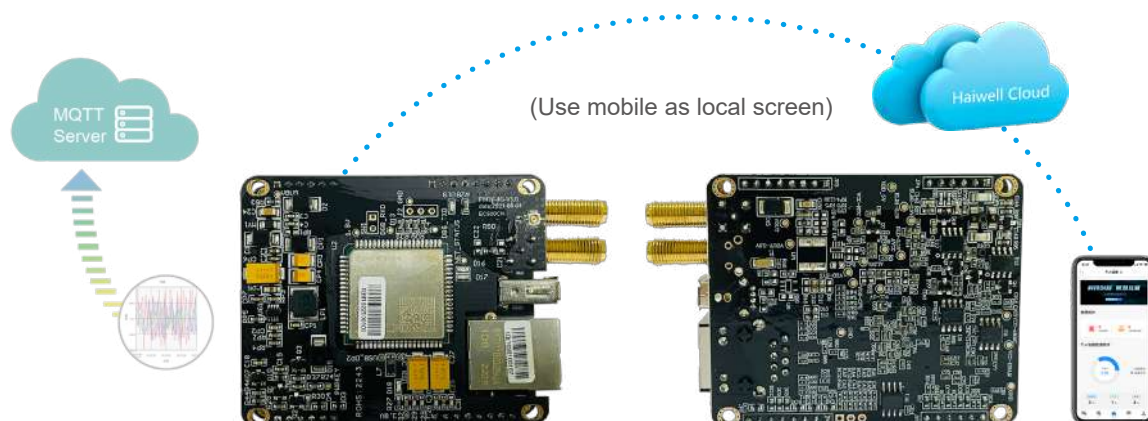
Mode	Storage	LAN	USB	COM	Voice	GPS	WIFI	Wireless Network	Dimension W×H×D
CBOX	4G + 512M	2	2	2	Yes		Yes		 50x120x85mm
CBOX-G	4G + 512M	2	2	2	Yes		Yes	China 4G	
CBOX-GP	4G + 512M	2	2	2	Yes	Yes		China 4G	
CBOX-E	4G + 512M	2	2	2	Yes		Yes	Global 4G	


### 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.
- Improve the positioning accuracy by using BeiDou or GPS.



## Embedded SmartLink gateway EBOX

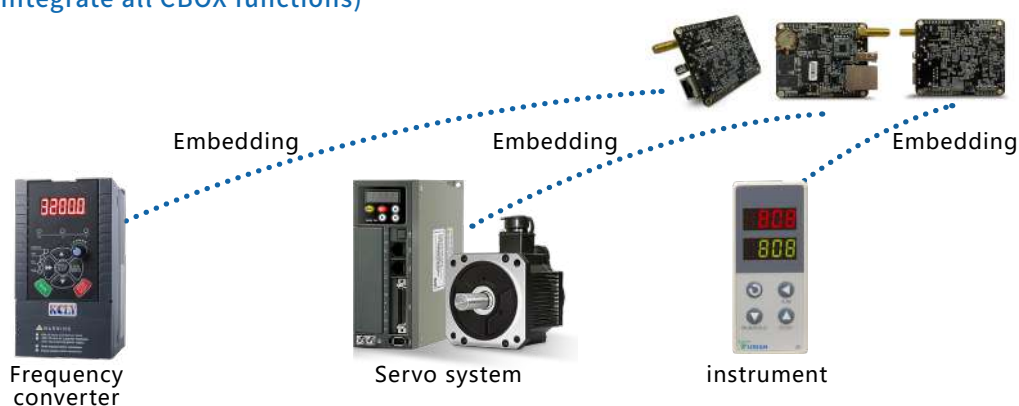


Model	Storage	LAN	USB	COM	WIFI	Wireless Network	Dimension W×H×D
EBOX	4G + 512M	1	1	2	Yes		 50X70mm
EBOX-G	4G + 512M	1	1	2	Yes	China 4G	

### 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)



# Cloud SCADA



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.

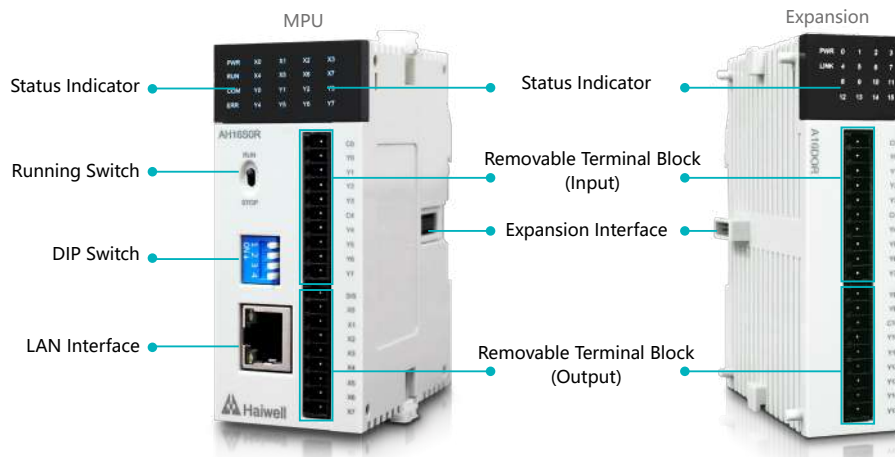
## Product Features

- 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...


## 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.	
AC10S0R	6	4 Relay			TCP+RS485, up to 5	<4.8W	5	 40×95×65
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.	
AT16S0R	8	8 Relay			2 Channels A/B phase 4points 200K		TCP+485	<4.8W	15	 40×95×65
AT16S0T	8	8 Transistor NPN			2 Channels A/B phase 4points 200K	2 Channels A/B phase 4points 200K	TCP+485	<4.8W	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.	
AH16S0R	8	8 Relay	4 Channels A/B phase 8points 200K		TCP+485	<4.8W	15	 40×95×65
AH16S0T	8	8 Transistor NPN	4 Channels A/B phase 8points 200K	4 Channels A/B phase 8points 200K	TCP+485	<4.8W	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	
A08DI	8		/	<2.4W	 25×95×65
A08DOR		8 Relay	/	<4.8W	
A08DOT		8 Transistor NPN	/	<4.8W	
A08DOP		8 Transistor PNP	/	<4.8W	
A08XDR	4	4 Relay	/	<2.4W	
A08XDT	4	4 Transistor NPN	/	<2.4W	
A08XDP	4	4 Transistor PNP	/	<2.4W	
A16DI	16		/	<2.4W	 25×95×65
A16DOR		16 Relay	/	<8.4W	
A16DOT		16 Transistor NPN	/	<8.4W	
A16DOP		16 Transistor PNP	/	<8.4W	
A16XDR	8	8 Relay	/	<4.8W	
A16XDT	8	8 Transistor NPN	/	<4.8W	
A16XDP	8	8 Transistor PNP	/	<4.8W	


## Analog I/O Modules

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


## Load cell module

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

## Temperature I/O Modules

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

## Communication I/O Modules

Model	Specification	Power	Dimension(mm) WxHxD
A01RS	With isolation, 1 RS232/RS485 communication port. Supports Modbus RTU/ASCII, 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)

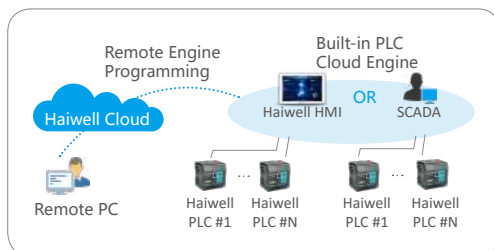
Ethernet Model		Model		Specification				Dimension WxHxD
24V DC	220V AC	24V DC	220V AC	DI	DO	Communication	Max Exp.	
C10S0R-e	C10S2R-e	C10S0R	C10S2R	6	4 Relay	RS232 + RS485	N/A	 93×95×82mm
C10S0T-e	C10S2T-e	C10S0T	C10S2T	6	4 Transistor NPN	RS232 + RS485	N/A	
C10S0P-e	C10S2P-e	C10S0P	C10S2P	6	4 Transistor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

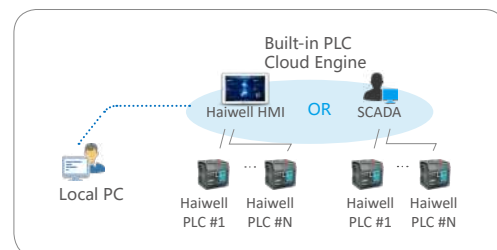
## T Series PLC MPU (-e : Built-in Ethernet port)

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	 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		
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	 131×95×82mm	
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	 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		
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

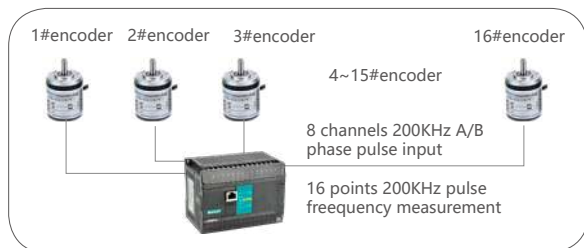


Local Programming

## 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		 70×95×82mm
	H16DI	16		RS485, supports remote IO function	
	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	 93×95×82mm
	H16XDP	8	8 Transistor PNP	RS485, supports remote IO function	
H24DI-e	H24DI	24		RS485, supports remote IO function	
H24XDR-e	H24XDR	12	12 Relay	RS485, supports remote IO function	
H24XDT-e	H24XDT	12	12 Transistor NPN	RS485, supports remote IO function	 131×95×82mm
H24XDP-e	H24XDP	12	12 Transistor PNP	RS485, supports remote IO function	
H40DI-e	H40DI	40		RS485, supports remote IO function	
H36DOR-e	H36DOR		36 Relay	RS485, supports remote IO function	
H36DOT-e	H36DOT		36 Transistor NPN	RS485, supports remote IO function	 177×95×82mm
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	 177×95×82mm
H64XDR-e	H64XDR	32	32 Relay	RS485, supports remote IO function	
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
24V DC	24V DC	AI	AO	Conversion Accuracy	Communication	
	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
24V DC	24V DC	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 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
24V DC	Specification	Conversion Accuracy	Communication	
H01WG	1 channel weighing	24 bits	RS485, supports remote IO function	 30×95×82mm
H02WG	2 channels weighing	24 bits	/	

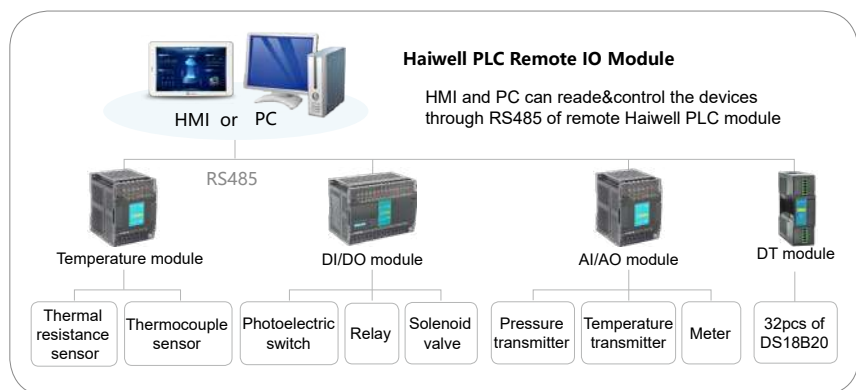
## Communication Modules

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

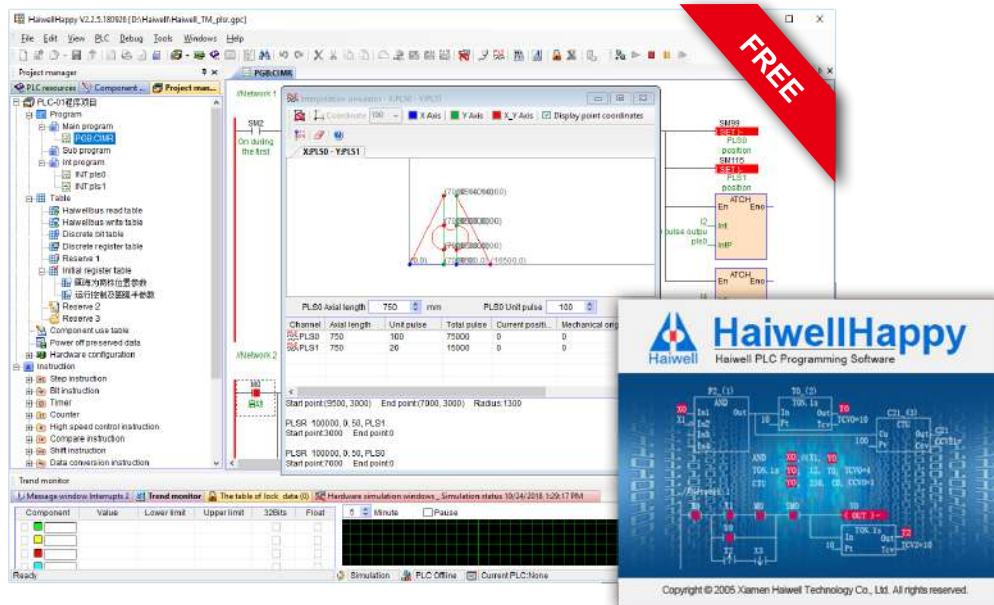
### Remote IO Functions

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.



# HaiwellHappy Haiwell PLC programming software

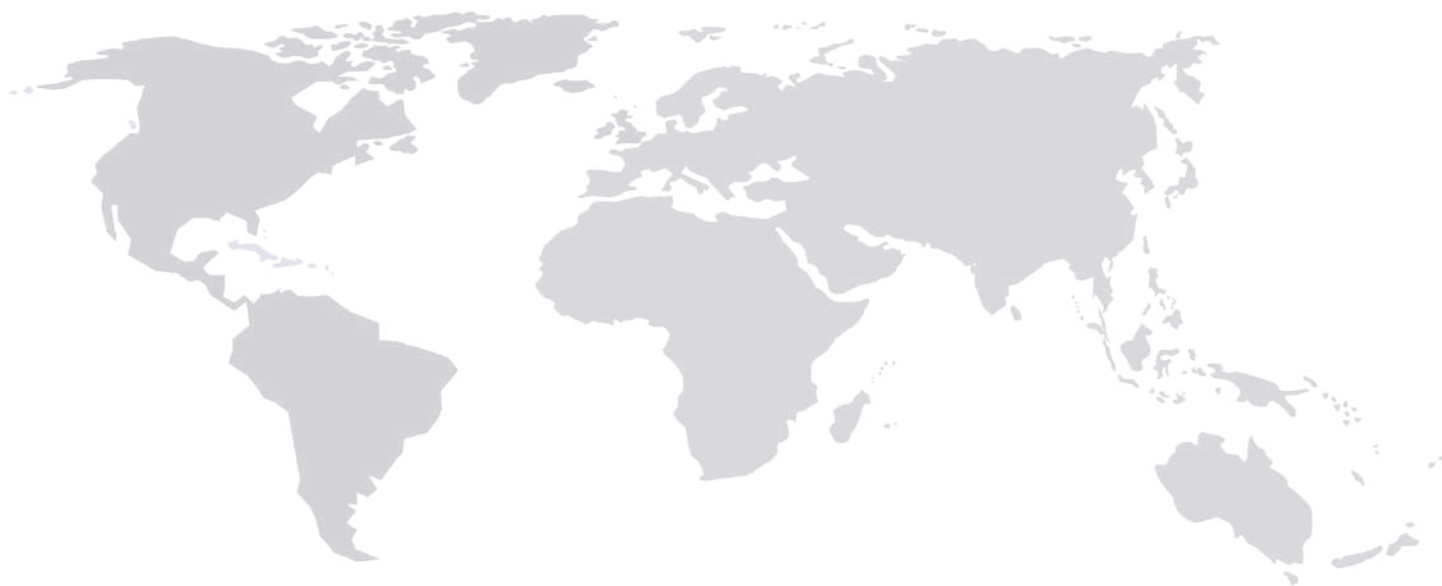


HaiwellHappy is the programming software for Haiwell PLC. It accordance with IEC 61131-3 standard, supports built-in simulator and three kinds of programming languages (LD-Ladder Diagram, FBD-Function Block Diagram and IL-Instruction List). It can run on the systems of Windows 98, Windows 200X, Windows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



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Haiwell Cloud APP



Haiwell WeChat



The parameters of product are subject to changes without prior notice.  
(Ver. I - 202402)