Haiwell 海为®

Haiwell Cloud

DB Server

MQTT

PLC

SCADA

APP

HMI/ Cloud Box

Haiwell Industrial IOT Terminal Products

Haiwell Cloud Platform

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

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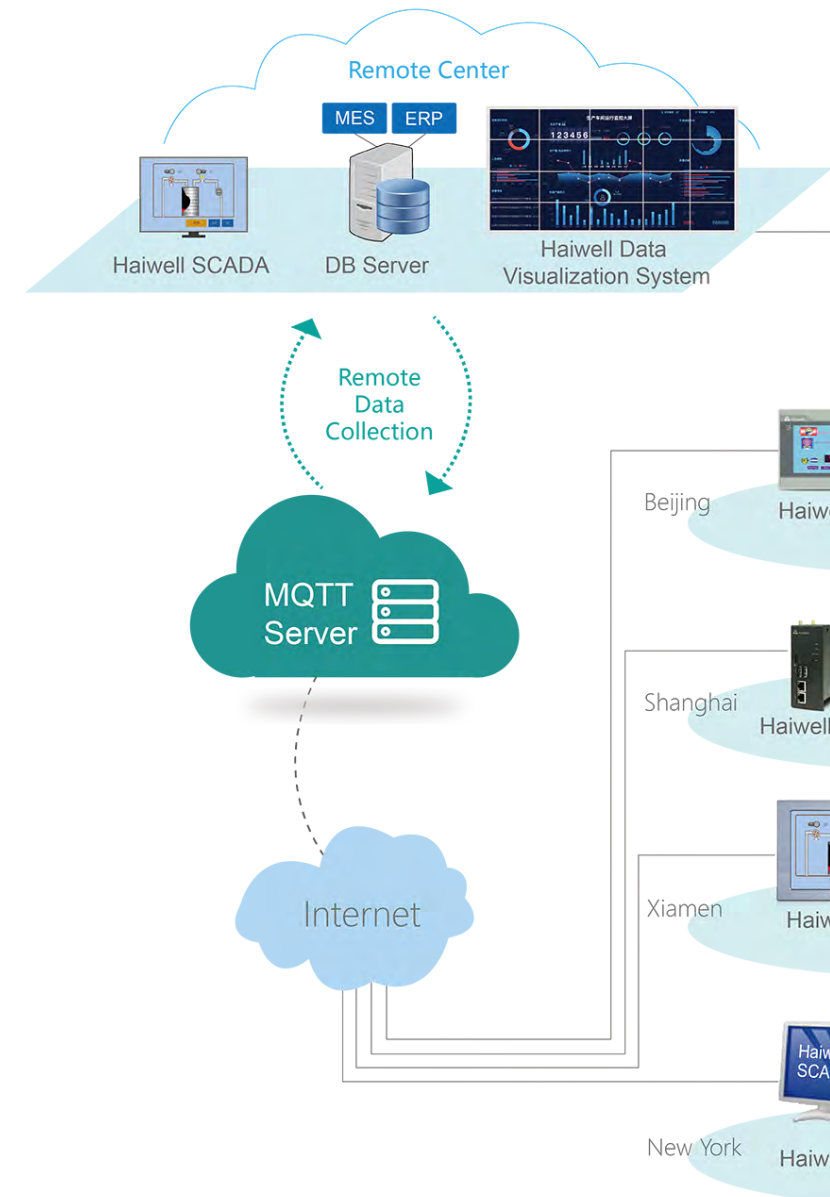
Haiwell Smart Factory Solutions

Haiwell HMI, Cloud-BOX, IPC and Cloud SCADA can connect to Haiwell Cloud Platform, support MQTT protocol, which can help users realize device Cloud management, remote data acquisition and maintenance, remote real-time monitoring and alarming. Integrate the first-line data into the the ERP and MES systerm to realize smart factories.
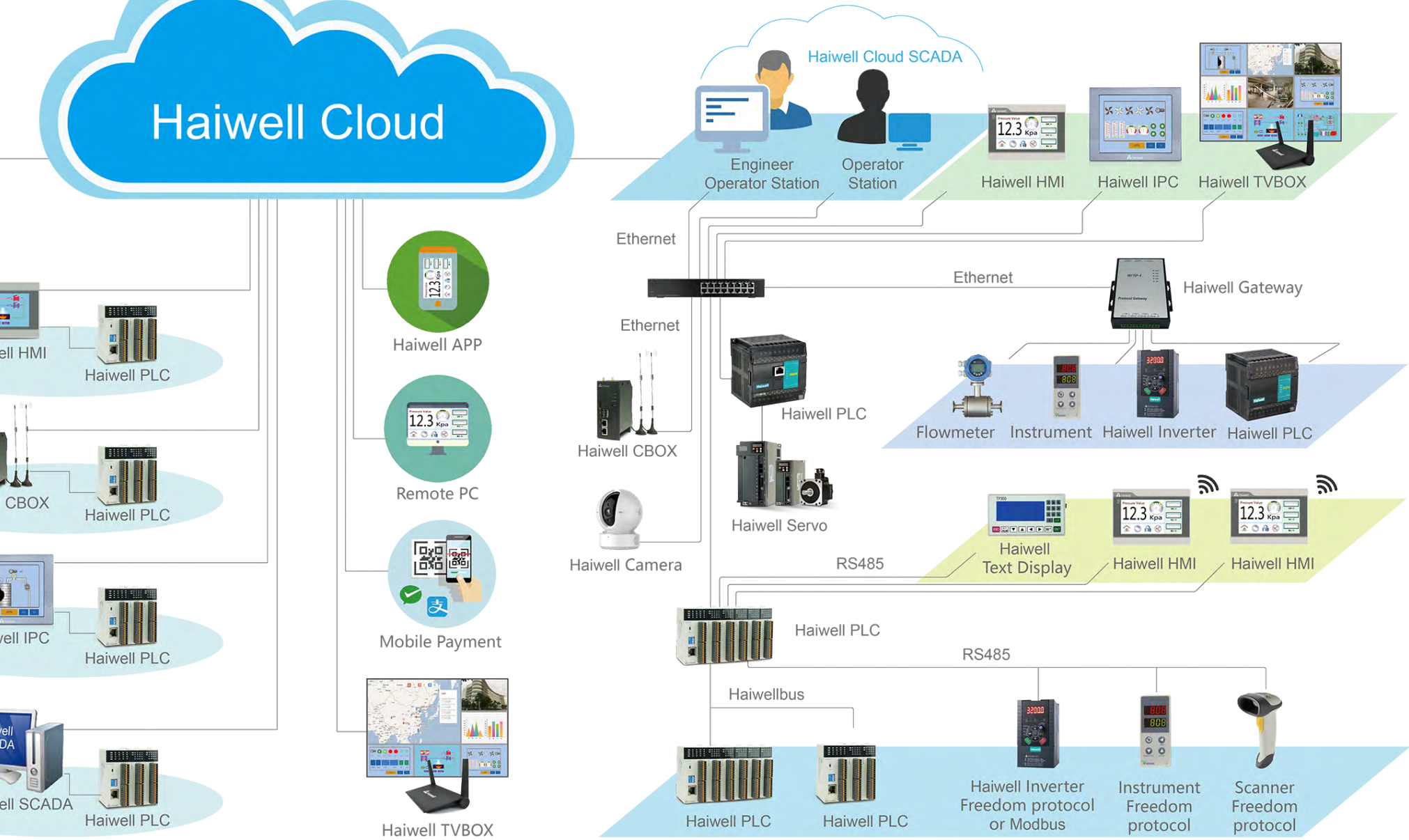
IIOT value centralized monitoring and display. Haiwell Cloud camera can easily realize remote monitoring of video, large screen controller TVBOX can realize single screen and multi-screen in one display, and then display the screen and video monitoring of various places on the big screen through the Haiwell Cloud Platform to realize large screen electronic board function.
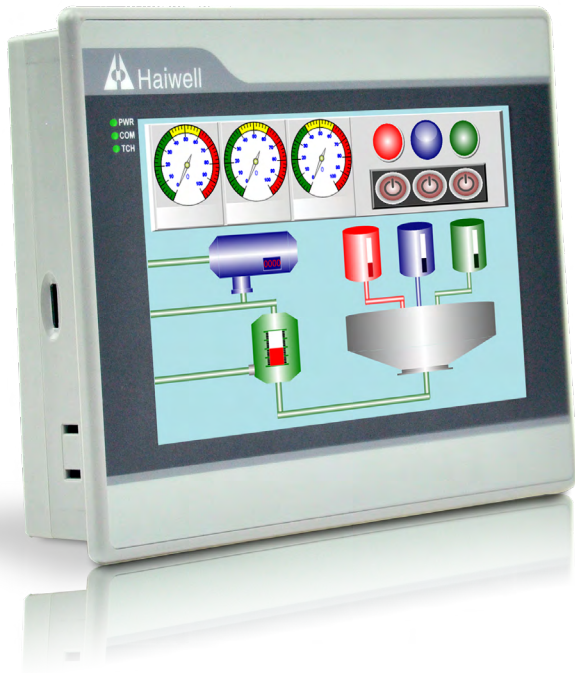
IIOT focuses on remote centralized control of device.Haiwell HMI/ cloud box /IPC and other cloud devices can realize data interaction of remote devices through MQTT server, centralized control of remote devices can be achieved by Haiwell cloud SCADA and Haiwell data visualization system can easily generate various data reports, which can improve the production efficiency of enterprises and save production costs.

Haiwell is committed to providing industrial IoT solutions such as intelligent factory, intelligent agriculture, intellgient photovoltaic, intellgient fire protection, and intellgient charging piles, etc.

Haiwell Cloud

Haiwell Cloud SCADA

Engineer Operator Station

Operator Station

Haiwell HMI

Haiwell IPC

Haiwell TVBOX

Haiwell APP

Remote PC

Mobile Payment

Haiwell TVBOX

Ethernet

Ethernet

Ethernet

Haiwell Gateway

Haiwell CBOX

Haiwell PLC

Haiwell Servo

Haiwell Camera

Flowmeter

Instrument

Haiwell Inverter

Haiwell PLC

Haiwell Text Display

Haiwell HMI

Haiwell HMI

RS485

Haiwell PLC

RS485

Haiwellbus

Haiwell PLC

Haiwell PLC

Haiwell Inverter Freedom protocol or Modbus

Instrument Freedom protocol

Scanner Freedom protocol

Haiwell HMI

Haiwell PLC

CBOX

Haiwell PLC

ell IPC

Haiwell PLC

ell SCADA

Haiwell PLC

12.3 Kpa

7"

-w: Wifi

C7　C7-W

Win at the Starting Line

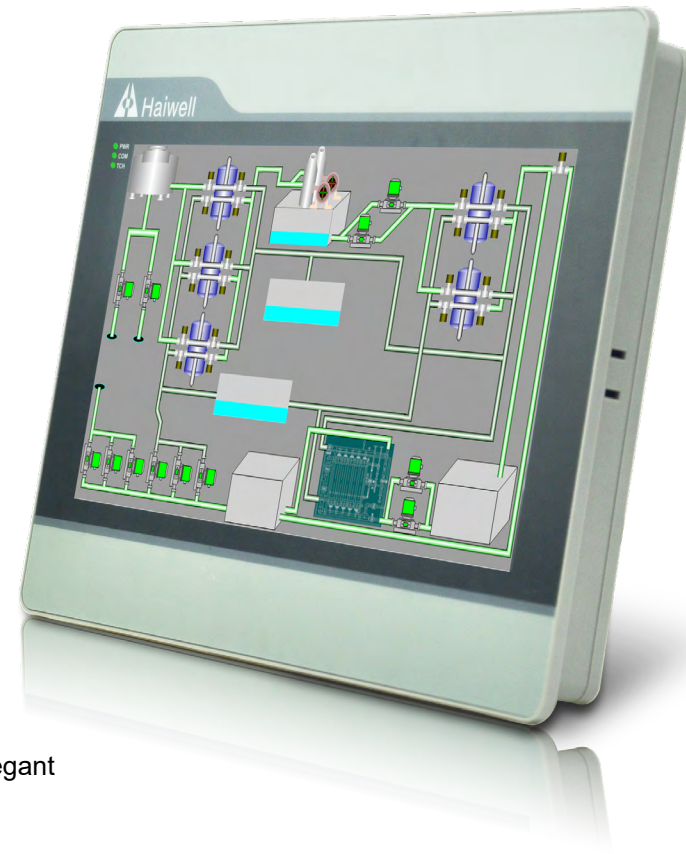Born with high standards

Colorful Screen	7"TFT 800x480, LED backlight, screen is real and exquisite
Configuration	4G FLASH + 512M DDR3
Innovation Functions	Supports A/B Key security mechanism, Multi-language automatic translation, mobile payment, weather forecast display
Program Download	Serial port/ U disk / SD card / Ethernet port/ Haiwell cloud
Intelligent Management	Support cloud / mobile terminal access control, strong operability
Multiple HMI Networking	Innovatie network mode, easy, convenient and pratical
Haiwell Cloud	Integrate Haiwell cloud service, built-in Haiwell cloud engine
COM Ports	Standard RJ45 port, 2 serial ports (232/422/485), 2 USB ports, SD card. WiFi is optional
Multi-Screen Function	Support multiple customized terminal display, and mutual management
Database	Support MQTT protocol, support access to the database server, easily achieve data collection and reporting, connects to ERP/MES and other systems

10.1"

-w: Wifi

C10 C10-W

HMI with the Internet

Controling anytime, anywhere

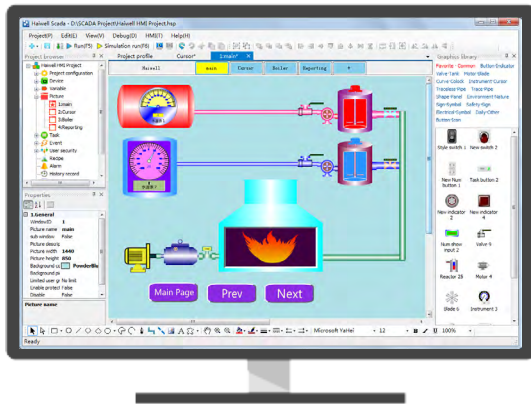|	
Appearance	10.1" TFT 1024x600. LED backlight, fashion, splendid, elegant
Configuration	4G FLASH + 512M DDR3
Program Download	Serial port/ U disk / SD card / Ethernet port/ Haiwell cloud
Intelligent Management	Support cloud / mobile terminal access control, strong operability
Innovation Functions	Supports A/B Key security mechanism, Multi-language automatic translation, mobile payment, weather forecast display
Multiple HMI Networking	Innovatie network mode, easy, convenient and pratical
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Cloud Box

"Non-Screen Haiwell Cloud HMI"

CBOX

- High performance memory, small size, multi-function, competitive price
- Integrated HMI function. It can directly monitor the display screen through the mobile phone/PC terminal instead of the HMI screen, control is flexible and convenient
- Support Haiwell Cloud SCADA, A/B key security mechanism, multi-device networking, database, multi-screen interaction. 2 Ethernet interfaces, supporting star, tree and bus Ethernet networking methods
- 2*RJ45 interface, 2*USB, 2*serial port, WiFi SD, SIM card, rail Installation
- Support MQTT protocol, support access to the database server, easily achieve data collection&reporting, connects to ERP/MES etc.

Haiwell Cloud SCADA Features

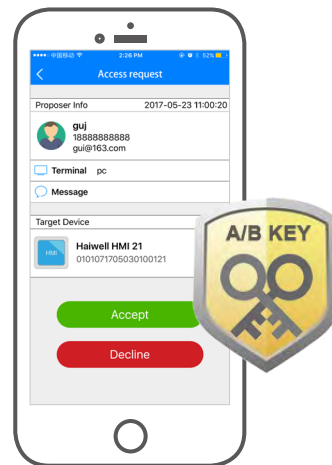**Haiwell HMI/Cloud Box software**

HMI/Cloud Box directly uses SCADA Software for Programming & Management

- With the full functions of SCADA, design and manage HMI project
- Integration of SCADA system address variable mechanism enhances the efficiency of project development and maintenance
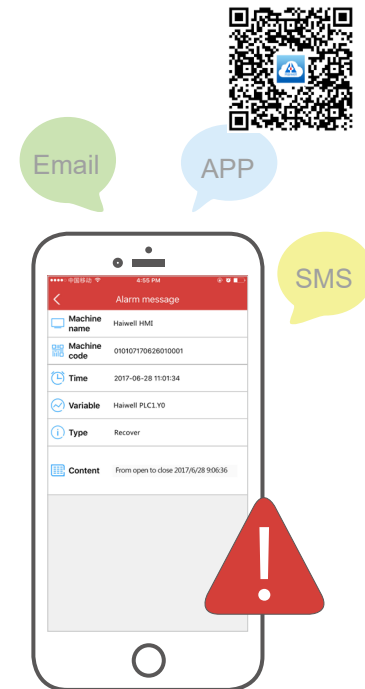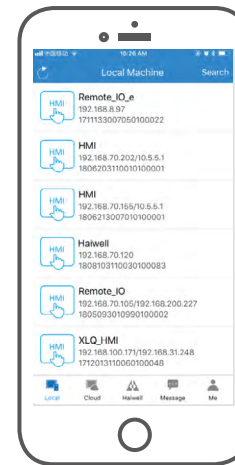

Innovative A/B Key Security Mechanism

- It needs to set the A Key account of HMI/Cloud Box or SCADA in order to open cloud access, which can improve operational safety
- It can set a number of B Key accounts to assist A Key account in managing device, which can achieve multiple protection
- If any visitor wants to bind the device, it need to get authorization from A key and B Key, and A key and B Key can set the access time for visitors, the double key auditing mechanism has a higher security level
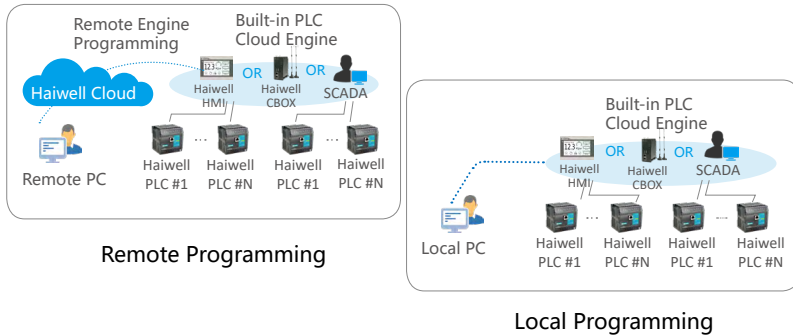
Haiwell Cloud Integration

- Through mobile phones APP provided by Haiwell cloud and Haiwell cloud website easily achieve the remote viewing and control of HMI/Cloud Box and SCADA
- Support to send alarm information by mobile phone APP, SMS, E-mail and other ways of communication, and using the powerful alarm mechanism makes you feel at ease wherever you are
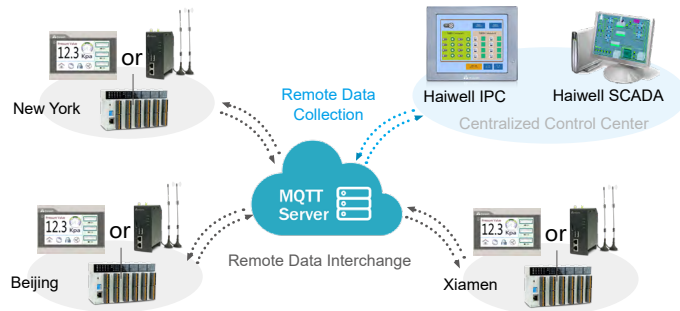

Email   APP   SMS

Haiwell Cloud Engine

There is no need to set any virtual serial port or router, because HMI/Cloud Box / SCADA has built-in Haiwell cloud engine which can achieve PLC online, reomote programming and remote monitoring. When PLC is online through cloud engine, it is controlled by the A / B Key security, protecting the safety of device.

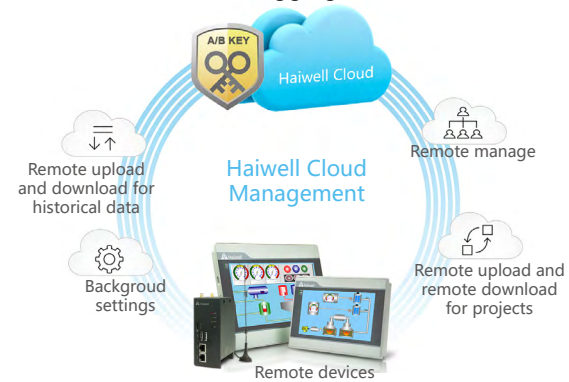Remote Programming

Local Programming

Remote centralized control of device

- Haiwell HMI /Cloud box /IPC can achieve data interaction between remote devices through the MQTT server;
- Haiwell Cloud configuration software can flexibly call variable data of devices in different places to realize centralized control of devices, making remote centralized control more convenient for engineers
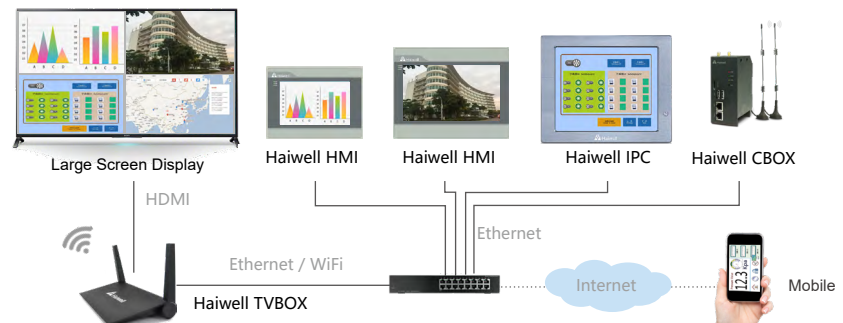

Haiwell Cloud Management

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.
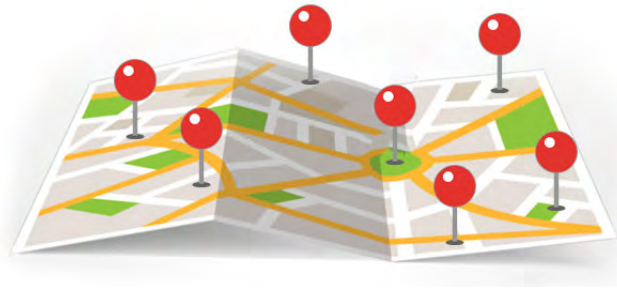

"Large display +HMI/Cloud Box" cross-screen linkage

- Through Haiwell large display controller Haiwell TVBOX , you can realize large screen display of HMI/Cloud Box in the LAN network
- One TVBOX, one TV, multiple HMI/Cloud Box can easily realize the function of the large electronic display board
- Through TVBOX, the pictures of multiple devices can be combined and shown on a large screen and monitored simultaneously in the form of 4/6/9 squares. Haiwell HMI, cbox, IPC and other equipments support this function.

Haiwell Cloud map

- You can easily remote view all the device's geography location on the phone, you can also display all the devices on the big screen map, both intuitive and convenient
- With the real-time bounce-alarm function, you can immediately view the location of alarm source device.

Cloud Camera Remote Monitoring

Cloud camera deeply integrated haiwell cloud service, through the HMI/ Cloud Box special control, configuration is very simple and convenient, you can use mobile app, cloud website to do remote viewing of HD smooth real-time video on devices such as industrial PC
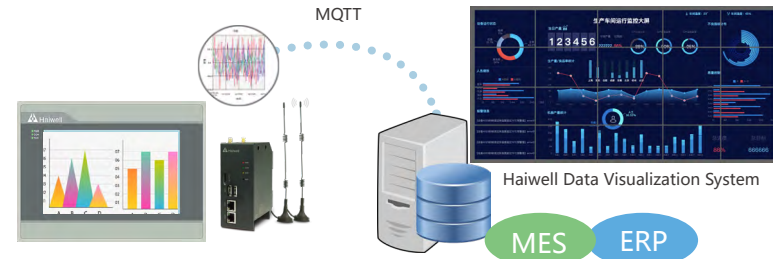

Remote Monitoring

Haiwell Cloud

Mobile Payment

- Access to Alipay and WeChat pay system
- Haiwell Cloud configuration software can quickly complete the configuration of the payment system, which is widely used in vending machine, self-service refueling machine,automatic car washer, automatic express cabinet and other unattended scenes

WeChat Payment

Alipay

Support MQTT protocol & Database

- Support MQTT protocol, support access to the database server, easily achieve data collection and reporting, connects to ERP/MES and other systems.
- By Haiwell MQTT Client, support to save real-time&history data to database as MySQL/SQL Server etc, and data dissemination
- With the Haiwell data visualization system, it is easy to generate various data reports, realize data analysis and large-screen data presentation, and provide various data support for management decision-making.

MQTT

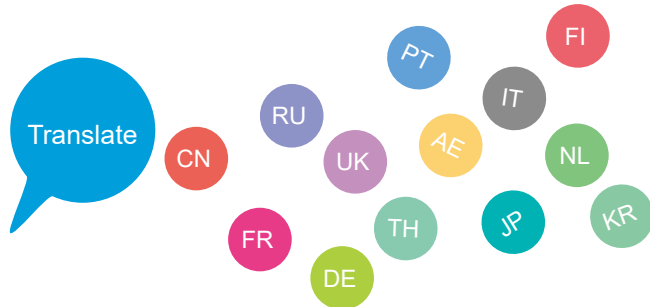Haiwell Data Visualization System

MES   ERP

Multiple HMI/Cloud Box Networking Easily

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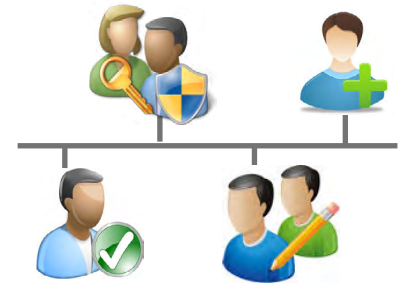
Multi-language Automatic Translation

It supports 26 kinds of languages (Chinese, English, Japanese, Korean, Spanish, French, Thai, Arabic, Russian, Portuguese, German, Italian, Dutch, Finnish, Danish, etc.) which can be automatically translated from each other, and no need to design screen for each language, it does not matter if you do not understand foreign language, just a simple setting, easy to achieve multi-language project.
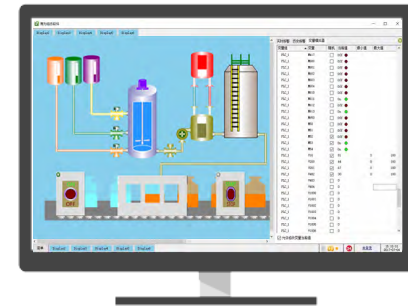
User Group Permission Management Mechanism

Through the mechanism of user group, it can control permissions of screens, primitives and so on, easy to achieve convenient management and change user permissions, meanwhile supporting remote add managing users on running terminal without changing the project, greatly saving the time.

Simulation Running

Support offline simulation function,it can simulate running with the preset variable value,you can easily modify the variable value to check the project .

Javascript

- The system uses the most popular HTML5 core technology: Javascript language
- Due to the ecological maturity of HTML5 technology, a large number of Javascript script resources on the Internet provide a great convenience for the script development

Specification	Model	C7 ｜C7-W	C10 ｜C10-W	CBOX
Display	Display	7" TFT	10.1" TFT	/
	Resolution	800x480 pixels	1024x600 pixels	
	Colors	16.7M	16.7M	
	Brightness(cd/m²)	300	350	
	Contrast Ratio	800:1	500:1	
	Touch Type	Resistive Type	Resistive Type	/
Backlight	Backlight Type	LED	LED	
	Backlight Life Time	20,000 Hours	20,000 Hours	
	Automatic Dormancy	Support and Configurable	Support and Configurable	
Software	Management software	Haiwell Cloud SCADA	Haiwell Cloud SCADA	Haiwell Cloud SCADA
Memory	Flash	4GB	4GB	256M
	RAM	512M	512M	256M
I/O Port	Micro SD Card Slot	Support	Support	Support
	Ethernet Port	10/100 Base-T	10/100 Base-T	1*10/100 Base-T, 1*10/100/1000 Base-T
	WiFi	Optiona	Optiona	Support
	COM Port	COM1: RS232/RS422/RS485 COM2: RS232/RS485	COM1: RS232/RS422/RS485 COM2: RS232/RS485	COM1: RS232 COM2: RS485
	USB Host	USB2.0 x 2	USB2.0 x 2	USB2.0 x 2
	Print Port	COM Port/USB Print	COM Port/USB Print	COM Port/USB Print
Power	Input power	24±20%VDC	24±20%VDC	24±20%VDC
	Power Consumption	<7W	<10W	<10W
	Power Isolation	Built-in	Built-in	Built-in
	Voltage Resistance	500V AC	500V AC	500V AC
	Isolation Resistance	Exceed 50MΩ @500VDC	Exceed 50MΩ @500VDC	Exceed 50MΩ @500VDC
	Vibration Endurance	10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)	10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)	10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)
Environment	Cooling Type	Natural air Cooling	Natural air Cooling	Natural air Cooling
	Protection Structure	IP65	IP65	IP20
	Storage Temperature	-20 ~ 70℃	-20 ~ 70℃	-20 ~ 70℃
	Operating Temperature	-10℃ ~ 60℃	-10℃ ~ 60℃	-10℃ ~ 60℃
	Relative Humidity	10 ~ 90%RH (non-condensing)	10 ~ 90%RH (non-condensing)	10 ~ 90%RH (non-condensing)
Specification	Enclosure	Engineering Plastic ABS (Flame-retardant level)	Engineering Plastic ABS (Flame-retardant level)	Engineering Plastic ABS (Flame-retardant level)
	Dimensions WxHxD	200x146x37mm	270x212x35mm	88x120x50mm
	Panel Cutout WxH	193x138mm	260x202mm	/
	Weight	About 0.7kg	About 1.2kg	About 0.45kg
Certification	Certification	CE&FCC	CE&FCC	CE&FCC

RoHS CE FC ISO

Haiwell Cloud APP

Haiwell Wechat