

BUSINESS CATALOG

Drive & Automation Solutions



INVERTER | PLC | HMI | SERVO DRIVE

IKON Technologies CO
www.ikondrives.com



COMPANY PROFILE

Ikon Technologies Co., established in 2003, is a pioneer in industrial automation, delivering innovative drive solutions and control systems across Pakistan.

As the exclusive distributor of globally recognized brands like Haiwell, Chziri, Sinny, Jyins, and Econgbo, Ikon provides a comprehensive range of products, including frequency inverters, PLCs, HMIs, SCADA systems, temperature controllers, and power resistors. Catering to diverse industries such as textiles, food and beverage, HVAC, metal processing, and water treatment.

Ikon specializes in custom automation solutions, energy optimization, and precision engineering. With offices in Lahore and Rawalpindi and a robust dealer network, Ikon offers end-to-end services, including installation, software development, training, and troubleshooting. Driven by a commitment to sustainability, innovation, and customer empowerment, Ikon integrates cutting-edge technology with practical solutions to enhance industrial efficiency and productivity. Trusted by industry leaders like Haval and Sapphire, Ikon continues to redefine industrial capabilities, inspiring the innovators of tomorrow.

Take another look!

Simplicity-Precision, Flexibility-Standarization and Easy to use-Diversity are the inherent qualities of IKON Variable Frequency Drives.

As an one-stop drive solution provider, IKON is ready to offer its own competitive solutions into the general power transmission industry



IKON AC Drives Series

ZVF 300S | IKN-300 | 320 | IKN-GE400 | IKN-GE200

High Performance Vector Control Frequency Inverter

ZVF300S Series frequency inverter has the good effect energy conservation, fine speed adjustment performance, stable operations, stable operation, electrical machinery soft start, protect function and seif diagnostics fault and other advantages.

ZVF300S

ZVF300S Series frequency inverter are high performance open loop vector inverters for controlling asynchronous AC induction motors and permanent synchronous motors.

General Drive

1. Output frequency :0-600Hz.
2. Multiple password protection mode.
3. Remote control operation keypad, convenient for remote control.
4. V/F curve & multi-inflection point setting, flexible configuration.
5. Keyboard parameter copy function. easy to set the parameters for multi-inverters.
6. Wide industry application to expand special function according to different industries.
7. Multiple hardware and software protection and optimized hardware for anti-interference technology.
8. Multi-step speed and wobble frequency running (external terminal 15 steps speed control).
9. Unique adaptive control technology. Auto current limiting and voltage limiting and under-voltage restrain.
10. Optimized external installation and internal structure and independent air flue design. fully enclosed electrical space design.
11. Output automatic voltage regulation function (AVR), automatically adjust the output pulse width to eliminate the influence of the grid change on load.
12. Built-10 PID regulation function to facilitate the realization of closed loop control of the temperature, pressure and flow and reduce cost of the control system.
13. Standard MODBUS communication protocol easy to achieve the communication between PLC, IPC and other industrial equipments.



Single phase 200v Class 0.4kW~4.0kW
Three phase 400v Class 0.4kW~630kW



Improved Torque Performance Through Powerful Sensor-less Vector Control Functions

With improved sensor-less vector control functions when compared to our original standard drive, it maintains high torque performance at low speed and efficiently controls the motor.



Various User Convenience Functions and Field Network Support

ZVF300 enables compact installation with DIN rail and side-by-side installation. It supports RJ port connection on the front of the product and greatly enhances the convenience of connecting with peripheral devices. EtherNet/IP, Modbus Support CANopen option, Built-in RS485



High Product Reliability

The heat-resisting property and intensity of our enclosure have significantly increased, and the insulation distance improved with our design that meets UL61800-5-1 standard.



Intended Use

Used in all industries including metal processing, molding machines, hydraulic / air conditioning equipment, food and beverage / textile machinery, lifts / conveyors and environment / water treatment

- Cutting / Bending / Polishing machines
- Fans / Pumps
- Injection machines / Conveyors
- Dust collectors / Freezers
- Compressors / Blower
- Hoist / Lift

IKN-GE 300/320



Single phase 200v Class 0.75kW~2.2kW
Three phase 400v Class 0.75kW~500kW

General Drive

IKN-GE series high performance general vector inverter, positioned as a new generation general purpose inverter; products using DSP control system and vector functions, widely used in air compressor, plastic machine, petroleum industry, coal industry, HVAC applications, fan pump and other standard transmission load.

Main Features

1. High performance
2. Multi-function with simple operation
3. Separate Air-duct
4. Multiple installation modes
5. Standard built-in C3 input filters, optional external C2 filters
6. Book structure
7. Embedded braking units of 0.75-30kW inverters
8. Supporting common DC bus
9. The product design follows IEC national standards
10. Advanced thermal technology makes exact thermal design
11. Wide voltage range meets the requirement of grid environment



Improved Torque Performance Through Powerful Sensor-less Vector Control Functions

With improved sensor-less vector control functions when compared to our original standard drive, it maintains high torque performance at low speed and efficiently controls the motor.



High Product Reliability

The heat-resisting property and intensity of our enclosure have significantly increased, and the insulation distance improved with our design that meets UL61800-5-1 standard.



Intended Use

Used in all industries including metal processing, molding machines, hydraulic / air conditioning equipment, food and beverage / textile machinery, lifts / conveyors and environment / water treatment

- Cutting / Bending / Polishing machines
- Fans / Pumps
- Injection machines / Conveyors
- Dust collectors / Freezers
- Compressors / Blower
- Hoist / Lift

IKN-GE-200



Single phase 200v Class 0.75kW~4.0kW
Three phase 400v Class 0.75kW~2.2kW

General Drive

IKN-GE-200 Series Micro Drive are developed for general applications of small power and OEM market. It applies V/f control technology, making the function of PID, multiple-speed step, DC braking, Modbus communication, as well as less installation space. IKN-GE-200 Series Micro drive is for small automation equipment of economical type, especially suitable for electronic AC drive is for packaging, wood, glass and other small power transmission.

Main Features

1. Output frequency : 0~400 Hz.
2. Multiple password protection mode.
3. Remote control operation keypad, convenient for remote control.
4. V/F curve & multi-inflection point setting, flexible configuration.
5. Keyboard parameter copy function. easy to set the parameters for multi-inverters.
6. Wide industry application to expand special function according to different industries.
7. Multiple hardware and software protection and optimized hardware for anti interference technology.
8. Multi-step speed and wobble frequency running (external terminal 15 steps speed control).
8. Multi-step speed and wobble frequency running (external terminal 15 steps speed control).
9. Unique adaptive control technology, Auto current limiting and voltage limiting and under-voltage restrain.
10. Optimized external installation and internal structure and independent air flue design, fully enclosed electrical space design.
11. Output automatic voltage regulation function (AVR), automatically adjust the output pulse width to eliminate the influence of the grid change on load.
12. Built-in PID regulation function to facilitate the realization of closed loop control of the temperature pressure and flow and reduce the cost of the control system.
13. Standard MODBUS communication protocol easy to achieve the communication between PLC, IPC and other industrial equipments.

IKN-GE 400

General Drive

Main Features

1. Advance vector control algorithm, adaptive to parameter changes caused by motor changes, improve the tolerance of system control.
2. No PG vector control (SVC), PG vector control (VC), V/F control, torque control & other control methods can be selected.
3. Auto tuning of static & dynamic motor parameters can be realized, so that the inverter can be automatically adjusted to the best operating state.
4. NPN & PNP two modes of multi-function input terminals, can provide compatible switch signal with any external equipment.
5. Built-in PLC function, which can realize operation modes such as stopping after a single cycle, maintaining the final value after a single cycle, & continuous cycle etc.
6. Rich combination of frequency sources, more flexible to use.
7. Special functions such as swing frequency, fixed length & counting can be realized.
8. Realize the delay function of programmable relay & open collector output.
9. Droop control function realizes automatic load balance.
10. High-speed pulse input & output function.
11. Built-in PID function to realize closed-loop control of flow, temperature & pressure.
12. Standard MODBUS communication protocol, easy to realize the communication with PLC industrial computer & other industrial control equipment.
13. Multiple password protection to protect user rights.
14. Compact structure, independent air duct design, greatly improve power density & effectively reduce user installation volume requirements.
15. Wide grid voltage design, especially suitable for domestic low-voltage special occasions.
16. Wide industry applications, special function modules can be expanded according to different industries.



Single phase 200v Class 0.4kW~7.5kW
Three phase 400v Class 0.75kW~15kW

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.



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

R Series SmartLink IPC



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.

D Series SmartLink HMI



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, 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.

A Series SmartLink 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.

A8 SmartLink PLC



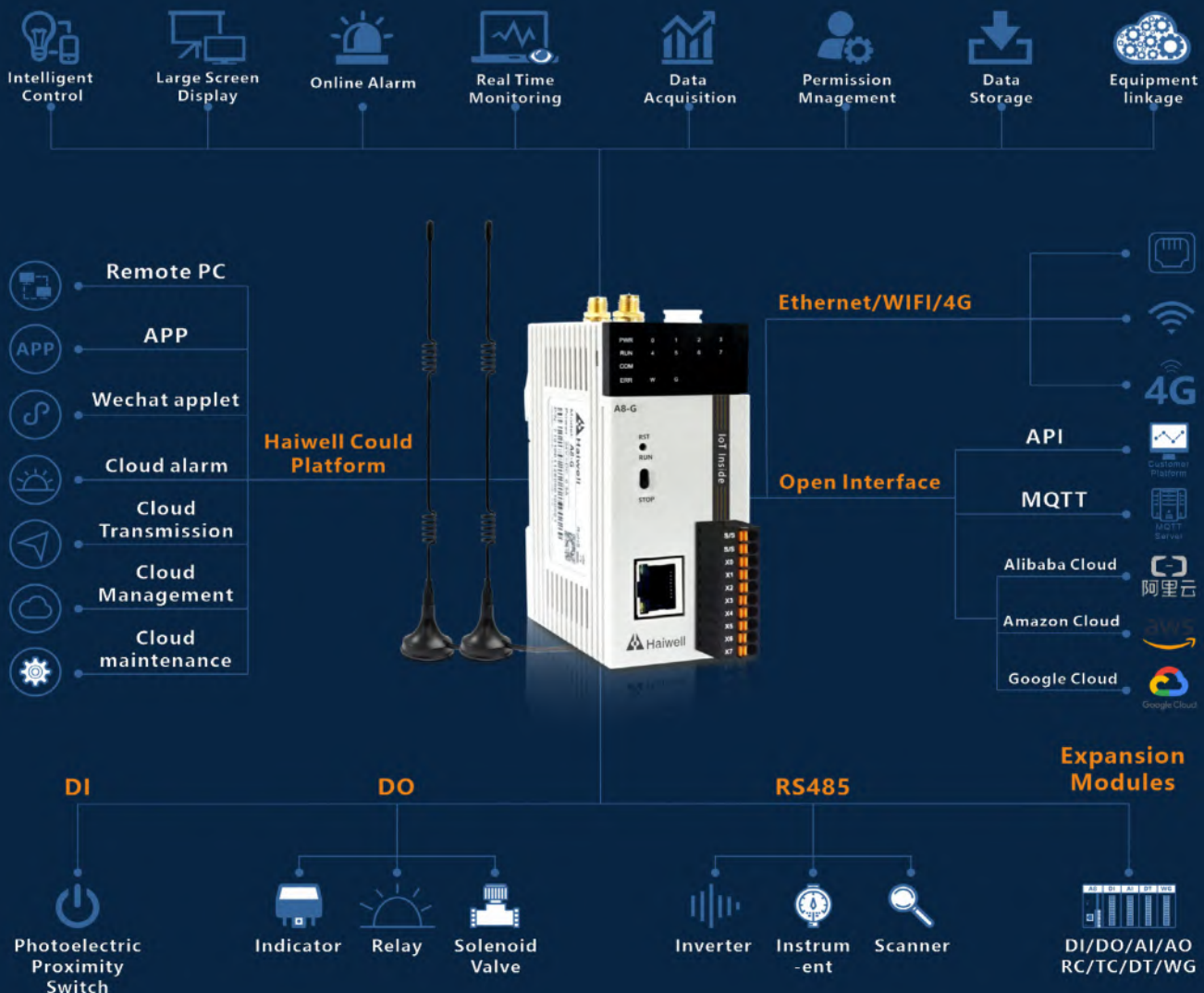
Product Features

- 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.



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.



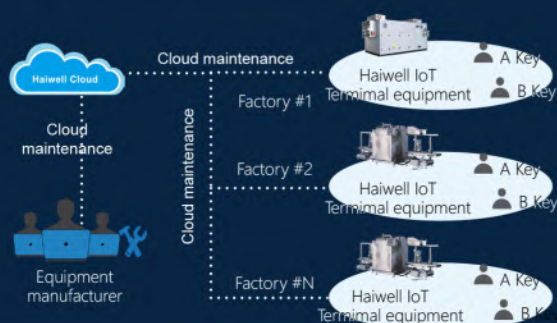
Data visualization system & WEB SCADA

- 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



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.



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

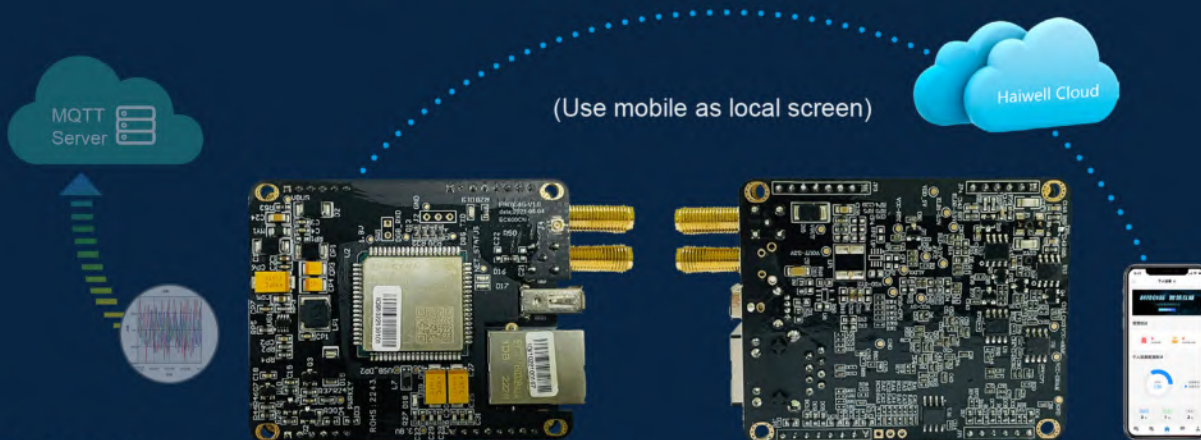


Mobile phone control large screen
Provide various and beautiful data visualization templates

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.

Embedded SmartLink gateway EBOX



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.

SmartLink Gateway CBOX

"Non-Screen Haiwell SmartLink HMI"

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.
- Support Beidou positioning and trajectory tracking.



SmartLink Gateway XBOX

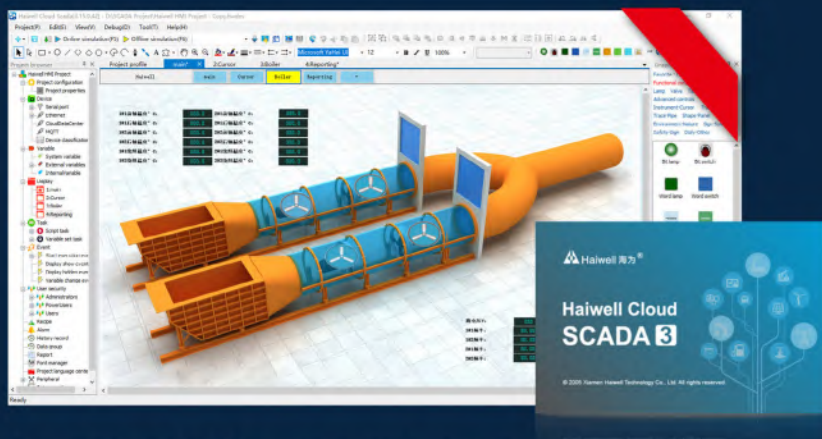
"Non-Screen SmartLink HMI with IO Points"

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.



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.

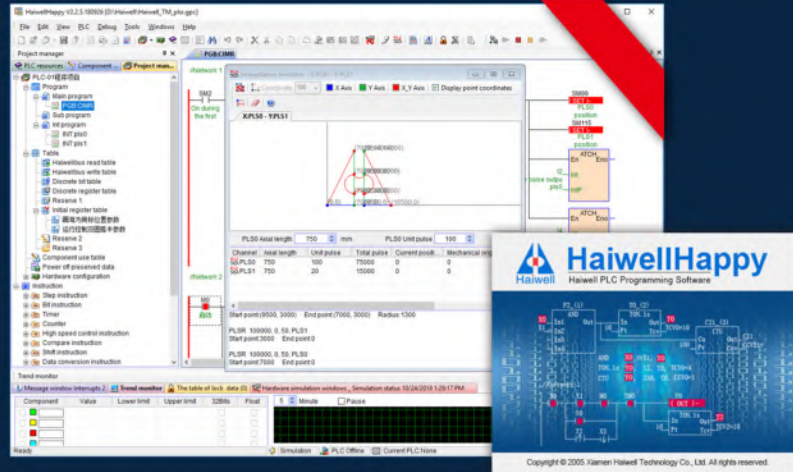
Product Features

- 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...

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 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.

Temperature Controller

TX4 Series

TX4 Series Economical 4-Digit Dual Display PID Temperature Controller

TX4 Temperature Controller, economical 4-digit dual-display PID temperature controller with 50ms high-speed sampling period and $\pm 0.5\%$ display accuracy. 50mm depth, exquisite design supports more installation environments and ideal temperature control in various applications.



TX2 Series

Machine Develop PID Temperature Controller

TX2 temperature controller, simple type PID temperature controller, excellent performance and cost-effective, with 50ms high-speed sampling period and $\pm 0.5\%$ display accuracy. Space-saving design with 50mm diameter depth for easy installation in limited space.



TC3 Series

3-Digit Double Display PID Temperature Controller

TC3 temperature controller adopts a large character LED display, with a 100ms high-speed sampling cycle and $\pm 0.5\%$ display accuracy, 100-240VAC wide voltage, supports universal input, the output can switch Relay/SSR, and can be customized analog output to meet the needs of different working conditions.



One Stop Solution



Training Programs



Testing



Repairing

Projects & Exhibitions



Our Clients





OUR PARTNERS

Whatsapp



Website



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