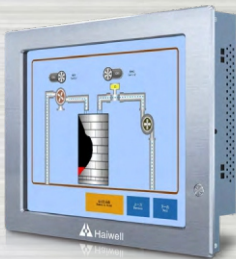


Drive & Automation Solutions

IKON
drive
POWER TO YOU

INVERTER | PLC | HMI | SERVO DRIVE



IKON TECHNOLOGIES CO

www.ikondrives.com



Company Profile

The company strength is a competitive team of more than 10 experienced professionals consisting management, finance, engineering ITS is the matter of pleasure for us introduce our selves that the IKON TECHNOLOGIES CO. was founded in 2005 by the hard work and enthusiasm of our director. These days where industrial sector has lack of services in the prospect of electrical and electronic services. We endeavor to go one step ahead by the Grace of GOD.

Our company enjoyed good reputation as in 2006 started automation business with latest available state of the art technology for modification of old machines and locally developed new machinery having good experience of different automation equipment IKON TECHNOLOGIES CO. collaborated ZIRI ELECTRICAL TECHNOLOGY CO., LTD in 2009 & HAIWELL 2019 as exclusive distributor of industrial automation equipment as PLC s, HMI, SERVO DRIVE and variable Frequency and technical staff as well as two OFFICES LAHORE and RAWALPINDI, and multiple dealer country wide, who provide sales and support from Karachi to Khyber, Currently company is providing support for local machines manufacturers and running industry by supplying equipment and services as equipment installation, software development according to customer application with IKON INVERTER, Temperature controller, Panel meters, HAIWELL PLC s and HMI as well as trouble shooting of other brand automation equipment, Also supplying IKON standards and others hard to find spare parts which are not available easily, We believe in moving ahead with current technological demand by providing our customers with material reliability of recent research and development. One of the most important characteristics of us is our best flexibility and dynamism,

IKON TECHNOLOGIES CO. is able to meet all of our customers' requirements, This is how we believe in working and strives for nothing less than the best, We are at your disposal for any other information that you may require.

Looking forward to hear from you soon.



“

**We are unique in
our ideas and
solutions to
our customer**

Take another look!

Simplicity-Precision, Flexibility-Standardization 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.

ZVF 300H Series

High Performance Vector Control Frequency Inverter

ZVF300H Series frequency inverter has the good effect energy conservation, fine speed adjustment performance, stable operations, stable operation, electrical machinery soft start, protect function and self diagnostics fault and other advantages.



IKN-GE 100/300 General Purpose Series

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.





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



ZVF300H Series frequency inverter are high performance open loop vector inverters for controlling asynchronous AC induction motors and permanent synchronous motors.

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.



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

ZVF300H 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



Single phase 200v Class 0.4kW~4.0kW
Three phase 400v Class 4.0kW~500kW



IKN-GE Series General Purpose Inverters Product Introduction

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



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

ZVF330 Series Mini Type AC 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. ZVF330 Series AC 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 :0-600Hz.
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-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.





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



INVERTER



PLC Controller

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

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

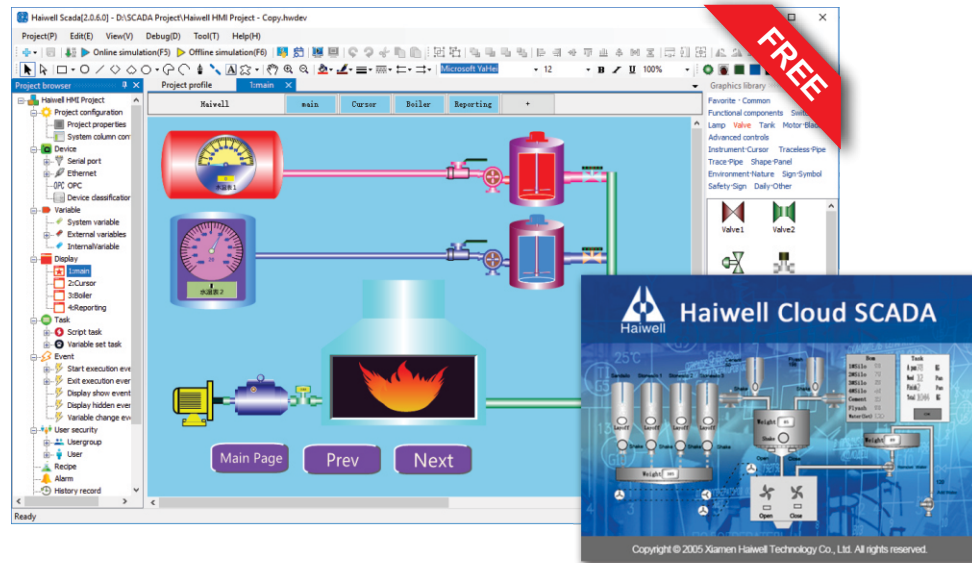


A Series Card-type PLC Controller



- Ultra-thin design, humanized peripheral port design, saving installation space
- Single Machine integrated digital & analog IO, small size, large application
- Support Haiwell Cloud, remotely program and monitor the PLC through Haiwell Cloud
- Single machine can expand up to 15 modules, maximum expansion I/O up to 256 points
- Support Ethernet + RS485 + 3 RS232/RS485 communication ports to work at the same time, strong communication networking capabilities
- Supports 2 channels A/B phase (4 points) 200 kHz high-speed pulse input and output

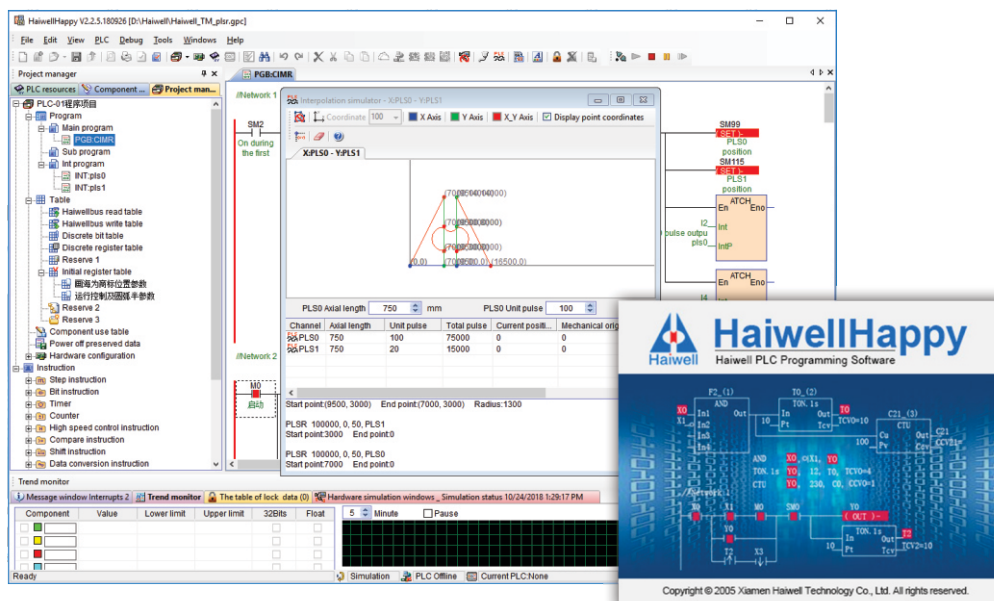
Cloud SCADA



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

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

HaiwellHappy





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.

BS Series IoT Cloud HMI



IoT Cloud HMI = HMI + IoT Gateway + DTU Economical & Convenient Networking IoT Solution

Model	TFT Screen	Storage	LAN	USB	COM	WiFi	Wireless	Hole Size	Dimension W*H*D
B7S	7" 800*480	2GB + 512M	1	2	2			193×138mm	 200×146×37mm
B7S-G	7" 800*480	2GB + 512M	1	2	2		China 4G		
B7S-W	7" 800*480	2GB + 512M	1	2	2	Yes			
B7S-E	7" 800*480	2GB + 512M	1	2	2		Global 4G		
B10S	10.1" 1024*600	2GB + 512M	1	2	2			260×202mm	 270×212×35mm
B10S-G	10.1" 1024*600	2GB + 512M	1	2	2		China 4G		
B10S-W	10.1" 1024*600	2GB + 512M	1	2	2	Yes			
B10S-E	10.1" 1024*600	2GB + 512M	1	2	2		Global 4G		

Product Features

- Integrate HMI, IoT gateway and DTU all functions into one
- 7"/ 10.1" size optional, 16.7M TFT true color, LED backlight
- Built-in Haiwell Cloud service, and Haiwell Cloud engine
- Supports remote accessing and control by Cloud and mobile
- Supports program download by U disk, SD card, Ethernet and Cloud
- Support MQTT protocol. Can be connected to database server/ERP/MES etc.
- Supports multi-screen networking, multi-screen interactive management
- Supports remote programming, download, firmware upgrade, debugging etc.
- Management by Haiwell Cloud SCADA



Third party IoT Platform

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



Support Cloud maintenance for equipment manufacturers

Provide exclusive maintain identity for equipment manufacturers, as well as exclusive enterprise platforms. More convenient for equipment vendors.



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

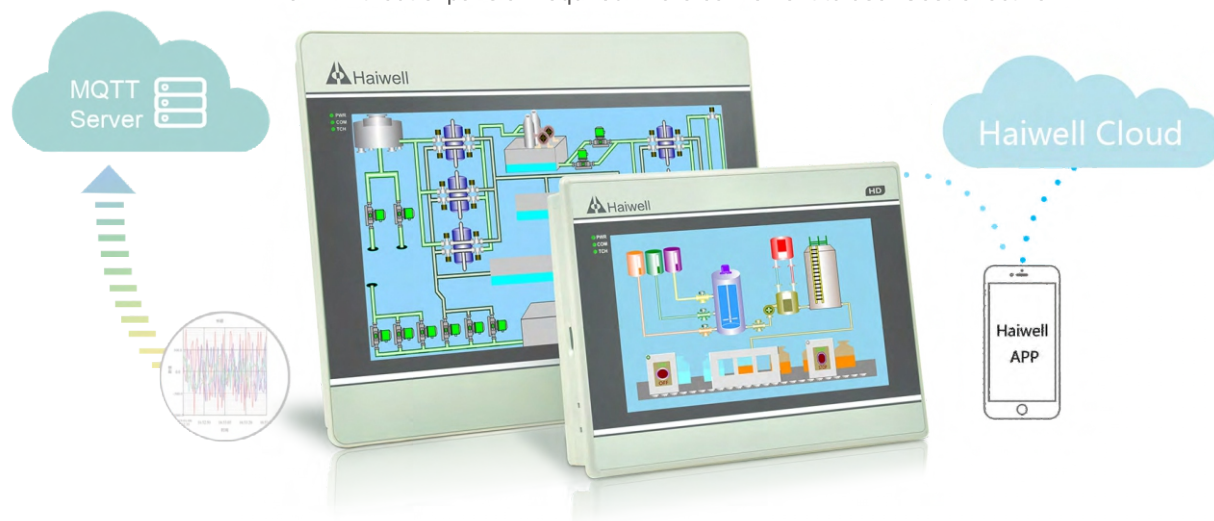
Haiwell has innovatively opened the integration function of the device configuration screen to third parties. Through a safe and easy-to-use interface, the device screen can be integrated into a variety of personalized scenarios such as third-party software, websites, APPs, and applets. Let third-party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



CS Series IoT Cloud HMI

IoT Cloud HMI = HMI + IoT Gateway + DTU


3in1 without expansion required. More convenient to use. Cost-effective.




7" IoT Cloud HMI——High Speed

Model	TFT screen	Storage	LAN	USB	COM	WIFI	Wireless	Hole Size	Dimension W*H*D
C7S	7" 800*480	4G + 512M + SD	1	2	3			193x138mm	 200x146x37mm
C7S-E	7" 800*480	4G + 512M + SD	1	2	2		Global 4G/3G/2G		
C7S-W	7" 800*480	4G + 512M + SD	1	2	3	Yes			
C7S-EW	7" 800*480	4G + 512M + SD	1	2	2	Yes	Global 4G/3G/2G		
C7S-G	7" 800*480	4G + 512M + SD	1	2	2		China 4G/3G/2G		
C7S-GW	7" 800*480	4G + 512M + SD	1	2	2	Yes	China 4G/3G/2G		

7" IoT Cloud HMI——HD

Model	TFT screen	Storage	LAN	USB	COM	WIFI	Wireless	Hole Size	Dimension W*H*D
C7H	7" 1024x600	4G + 512M + SD	1	2	3			193x138mm	 200x146x37mm
C7H-E	7" 1024x600	4G + 512M + SD	1	2	2		Global 4G/3G/2G		
C7H-W	7" 1024x600	4G + 512M + SD	1	2	3	Yes			
C7H-G	7" 1024x600	4G + 512M + SD	1	2	2		China 4G/3G/2G		





10.1" IoT Cloud HMI——High Speed

Model	TFT screen	Storage	LAN	USB	COM	WIFI	Wireless	Hole Size	Dimension W*H*D
C10S	10.1" 1024x600	4G + 512M + SD	1	2	3			260x202mm	 270x212x35mm
C10S-E	10.1" 1024x600	4G + 512M + SD	1	2	2		Global 4G/3G/2G		
C10S-W	10.1" 1024x600	4G + 512M + SD	1	2	3	Yes			
C10S-EW	10.1" 1024x600	4G + 512M + SD	1	2	2	Yes	Global 4G/3G/2G		
C10S-G	10.1" 1024x600	4G + 512M + SD	1	2	2		China 4G/3G/2G		
C10S-GW	10.1" 1024x600	4G + 512M + SD	1	2	2	Yes	China 4G/3G/2G		





Industrial Panel PC



Q Series Industrial Panel PC ----5 wire resistance Touch Screen

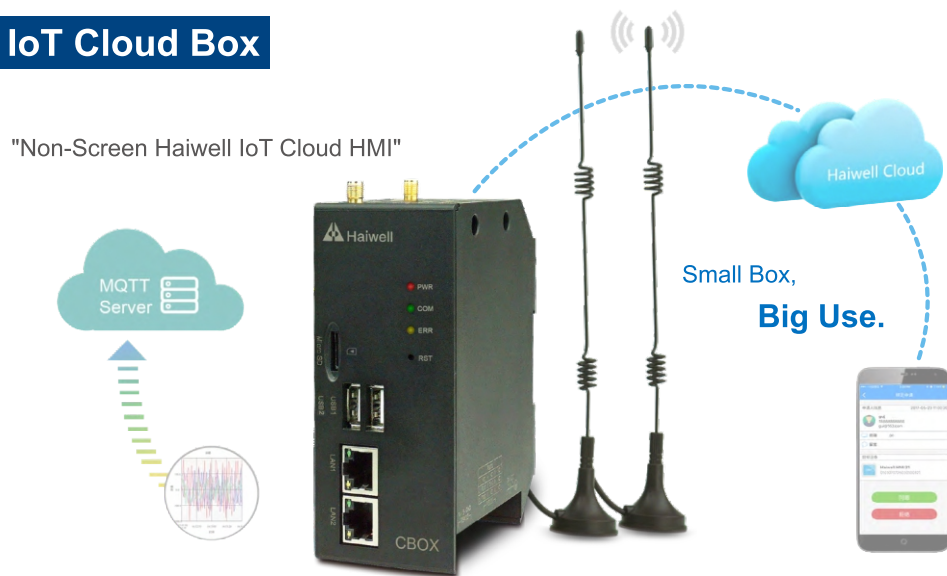
Model	TFT Screen	CPU	LAN	USB	Storage	Interface	WIFI	COM	Casing	Hole Size WxH(mm)	Dimension WxHxD(mm)
Q15	15" 1024×768	Intel 3855U	1000M	4	4G DDR3 32G SSD	HDMI VGA	Optional	3*RS232 1*RS485	Al Alloy	365x275	 380x290x55
Q17	17" 1280×1024	Intel 3855U	1000M	4	4G DDR3 32G SSD	HDMI VGA	Optional	3*RS232 1*RS485	Al Alloy	397×316	 413×333×55
Q19	19" 1280×1024	Intel 3855U	1000M	4	4G DDR3 32G SSD	HDMI VGA	Optional	3*RS232 1*RS485	Al Alloy	440×354	 453×369×55
Q22	21.5" 1920×1080	Intel 3855U	1000M	4	4G DDR3 32G SSD	HDMI VGA	Optional	3*RS232 1*RS485	Al Alloy	532×316	 548×331×55

R Series Industrial Panel PC --- Full flat glass capacitive screen

Model	TFT Screen	CPU	LAN	USB	Storage	Interface	WIFI	COM	Casing	Hole Size WxH(mm)	Dimension WxHxD(mm)
R15	15" 1024×768	Intel 3855U	1000M	4	4G DDR3 32G SSD	HDMI VGA	Optional	3*RS232 1*RS485	Al Alloy	347x270	 355x283x58
R17	17" 1280×1024	Intel 3855U	1000M	4	4G DDR3 32G SSD	HDMI VGA	Optional	3*RS232 1*RS485	Al Alloy	379×316	 387x322x58
R19	19" 1280×1024	Intel 3855U	1000M	4	4G DDR3 32G SSD	HDMI VGA	Optional	3*RS232 1*RS485	Al Alloy	420×342	 430x355x58
R22	21.5" 1920×1080	Intel 3855U	1000M	4	4G DDR3 32G SSD	HDMI VGA	Optional	3*RS232 1*RS485	Al Alloy	520×318	 530x328x58


* All series IPC support Linux and Windows systems, 3855U CPU can be upgraded to Intel i3/i5. Maximum 512G SSD.

CBOX IoT Cloud Box



CBOX = IoT Gateway + DTU + HMI (Use mobile as local screen)

- Integrated IoT gateway+DTU+HMI all in one, saving cost and space. Small box, big application.
- Built-in Web API function, can control and obtain the device data through HTTP protocol.
- Support configuration screen integration. Device screen can be integrated into various personalized scenes
- Support access to third-party IoT platforms such as Alibaba Cloud, Amazon, Google, etc.
- Innovative A/B Key security mechanism. Supports multi-unit networking, database, multi-screen interaction etc.
- All projects are developed at one time, what you see is what you get. Can be directly monitored through mobile APP/PC terminal instead of the HMI screen.
- Support MQTT protocol. Can connect to database server/ERP/MES systems to easily realize data collection&reporting.
- Built-in Haiwell Cloud engine, integrated Haiwell Cloud service. Supports Cloud and mobile accessing control.
- Supports edge calculations, Cloud transparent transmission.
- Supports multiple third party protocols. Built-in a variety of industrial equipment drivers.

Model	Storage	LAN	USB	COM	WIFI	Wireless	Dimension
CBOX	4G + 512M + SD	2	2	2	Yes		 50x120x85
CBOX-E	4G + 512M + SD	2	2	2	Yes	Global 4G/3G/2G	
CBOX-G	4G + 512M + SD	2	2	2	Yes	China 4G/3G/2G	

Application Features

- **4G Networking**
In the case of outdoor work such as mining, or limited networking conditions, 4G networking will be very helpful.
- **Fearless from the wind and the sun**
Strong housing protection design, even in harsh outdoor environments, no need to worry about hardware damage caused by exposed to the sun.
- **Inside or outside cabinet installation**
No additional cabinet protection required, can be installed inside or outside the cabinet, saving costs.



Use local mobile or iPad as monitor screen, achieve local operations.



Config



AB Key



Remote
Monitoring



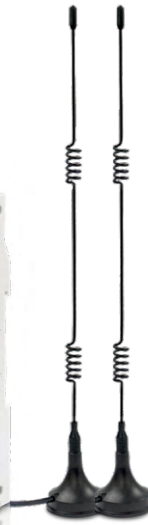
Realtime
alarm

XBOX IoT Cloud Box

"Non-Screen IoT HMI with IO Points"




3in1 Cost-Effective



XBOX= IoT Gateway + RTU + HMI (Built-in IO points. Use mobile as local screen)

- Built-in 8 digital points. User can customize DI/DO. Design for flexible application is more and cost-effective.
- Built-in Web API function, can control and obtain the device data through HTTP protocol.
- Support configuration screen integration. Device screen can be integrated into various personalized scenes.
- Support access to third-party IoT platforms such as Alibaba Cloud, Amazon, Google, etc.
- Integrated HMI+RTU+IoT Gateway functions all in one. Supports accessing through mobile APP/PC etc.
- Management by Cloud SCADA. Built-in Haiwell Cloud engine, integrated Haiwell Cloud service
- Support base station positioning, IP positioning, device map viewing. Real-time device status can be viewed through mobile APP or large monitor screen.

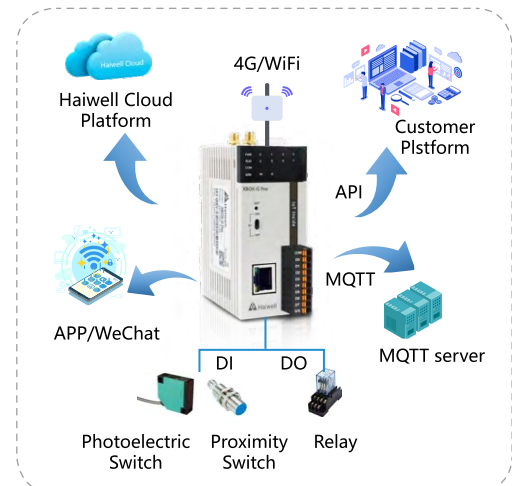
Model	Storage	I/O	LAN	COM	WIFI	Wireless Network	Dimension (mm) w×h×d
XBOX	2G+256M	8 DI	1	1	Yes		 40×95×65
XBOX-G	2G+256M	8 DI	1	1	Yes	China 4G	
XBOX-E	2G+256M	8 DI	1	1	Yes	Global 4G	
XBOX Pro	2G+256M	8 DI/DO, User-defined	1	1	Yes		
XBOX-G Pro	2G+256M	8 DI/DO, User-defined	1	1	Yes	China 4G	
XBOX-E Pro	2G+256M	8 DI/DO, User-defined	1	1	Yes	Global 4G	

More than having serial port / Ethernet communication, and HMI+PLC mode, the XBOX comes with configurable IO points, realize real-time data collection and transmission.

XBOX can connect to Haiwell IoT Cloud platform through WiFi/Ethernet/4G multiple ways to push data to the Cloud server, and realize remote configuration, diagnosis and management through the platform.

By Haiwell APP and WeChat applet, you can remotely monitor it, view historical data, and receive alarm information.

XBOX supports data query by connecting to the customer's self-developed platform through the API interface. Support connect to MQTT server to realize data transmission and storage.



SDV3 Series Servo System General Purpose



**0.4kw - 7.5kw Single / 3 Phase 400v
with Break / without Break**

Technology Interaction Vitality



**SDAP Series servo system
0.4kw - 3.0kw
Single / 3 Phase 220v**

LS ELECTRIC

**MITSUBISHI
ELECTRIC**
FACTORY AUTOMATION

SIEMENS



Also We Provide Hardware & Software Solution



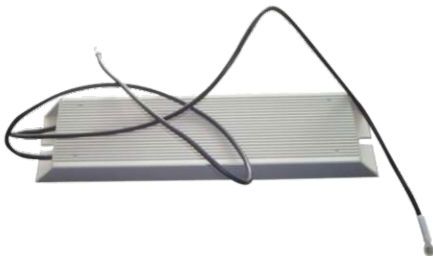
Remote Control Cable

Main Features

IKON TECHNOLOGIES CO. can provide a range of extended shielding remote control cables with different specifications such as 1m, 1.5., 2m,3m, 5m and 10m. If there is any special requirement on cable length, Just place an order with the company.



Other Optional Parts For Inverters



Aluminum Power Resistor



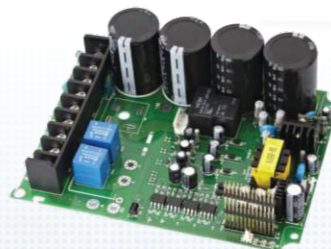
RS485-USB Converter



ZVF 300H Inverter Keypad



Inverter Control Board



Inverter Drive Board

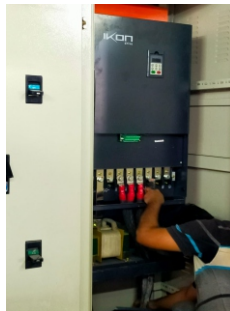


ZVF 330 Inverter Keypad

One Stop Solutions



Projects & Exhibitions



Our Clients





OUR PARTNERS

CHZIRI



YASKAWA
INVERTER

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