Haiwell海为®

# Haiwell PLC

Programmable Logic Controller




## Classic PLC

## 8 Highlights

- Follow IEC-61131 standard and compliant with CE standards and ISO certification.
- Possess proprietary intellectual property rights and allow to customize PLC.
- Use expansion module as remote IO through RS485 or Ethernet port.
- Provide remote access to connect PLCs by Haiwell cloud.
- Allow Ethernet port and up to five RS232/RS485 serial ports to work togather.
- 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.
- Innovative programming software which provides comprehensive simulation including Interpolation and communication.

## C Series PLC MPU

| 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 | |

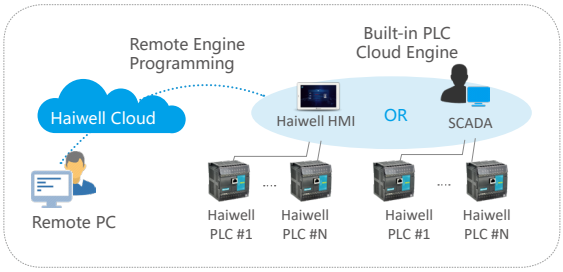
## T Series PLC MPU

| 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 |  131×95×82mm |
| T20M0T-e | T20M2T-e | T20M0T | T20M2T | 8 | 6 Transistor NPN | 4 | 2 | | | RS232 + RS485, Max 5 ports | 7 | |
| 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 | |

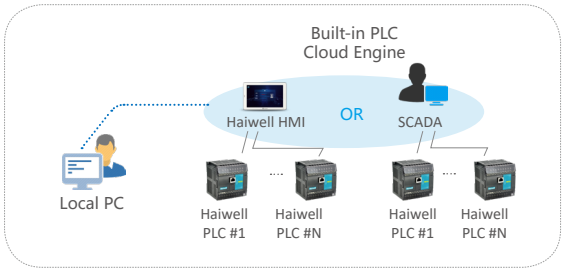
# H Series PLC MPU

| 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, 12points 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 | |

* Support linear interpolation, ARC interpolation, Synchronism pulse output
* Support absolute address, relative address, Support backlash compensation
* Support electric original point redefine etc.



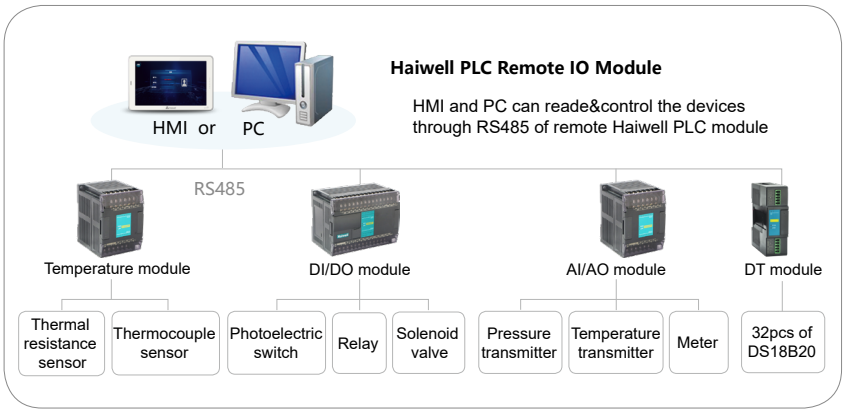

Remote Programming




Local Programming

**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 insatalled independently without PLC system points limitation.
- Long distance. Fexible configuration. Low cost.




## Digital I/O Modules

| Ethernet Model | Model | Specification | | | Dimension WxHxD |
|---|---|---|---|---|---|
| 24V DC | 24V DC | DI | DO | Communication | |
| | H08DI | 8 | | | 30×95×82mm |
| | H08DOR | | 8 Relay | | |
| | H08DOT | | 8 Transistor NPN | | |
| | H08DOP | | 8 Transistor PNP | | |
| | H08XDR | 4 | 4 Relay | | |
| | H08XDT | 4 | 4 Transistor NPN | | |
| | H08XDP | 4 | 4 Transistor PNP | | |
| | H16DI | 16 | | RS485, supports remote IO function | 70×95×82mm |
| | H16DOR | | 16 Relay | RS485, supports remote IO function | |
| | H16DOT | | 16 Transistor NPN | RS485, supports remote IO function | |
| | H16DOP | | 16 Transistor PNP | RS485, supports remote IO function | |
| | H16XDR | 8 | 8 Relay | RS485, supports remote IO function | |
| | H16XDT | 8 | 8 Transistor NPN | RS485, supports remote IO function | |
| | H16XDP | 8 | 8 Transistor PNP | RS485, supports remote IO function | |
| H24DI-e | H24DI | 24 | | RS485, supports remote IO function | 93×95×82mm |
| H24XDR-e | H24XDR | 12 | 12 Relay | RS485, supports remote IO function | |
| H24XDT-e | H24XDT | 12 | 12 Transistor NPN | RS485, supports remote IO function | |
| H24XDP-e | H24XDP | 12 | 12 Transistor PNP | RS485, supports remote IO function | |
| H40DI-e | H40DI | 40 | | RS485, supports remote IO function | 131×95×82mm |
| H36DOR-e | H36DOR | | 36 Relay | RS485, supports remote IO function | |
| H36DOT-e | H36DOT | | 36 Transistor NPN | RS485, supports remote IO function | |
| H36DOP-e | H36DOP | | 36 Transistor PNP | RS485, supports remote IO function | |
| H40XDR-e | H40XDR | 20 | 20 Relay | RS485, supports remote IO function | |
| H40XDT-e | H40XDT | 20 | 20 Transistor NPN | RS485, supports remote IO function | |
| H40XDP-e | H40XDP | 20 | 20 Transistor PNP | RS485, supports remote IO function | |
| H64XDR-e | H64XDR | 32 | 32 Relay | RS485, supports remote IO function | 177×95×82mm |
| H64XDT-e | H64XDT | 32 | 32 Transistor NPN | RS485, supports remote IO function | |
| H64XDP-e | H64XDP | 32 | 32 Transistor PNP | RS485, supports remote IO function | |

## Analog I/O Modules

| 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

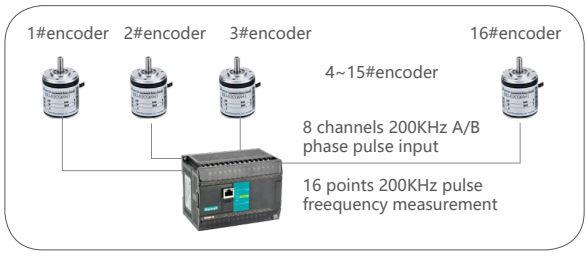
| Ethernet Model | Model | Specification | | | Dimension WxHxD |
|---|---|---|---|---|---|
| 24V DC | 24V DC | Sensor | Conversion ccuracy | Communication | |
| | H04DT | 4 Channels DS18B20, RW1820 temperature sensor, DS1990 sensor or SHT1x, SHT7x temperature & humidity sensor | 9~12 bits | / |  30×95×82mm |
| | 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

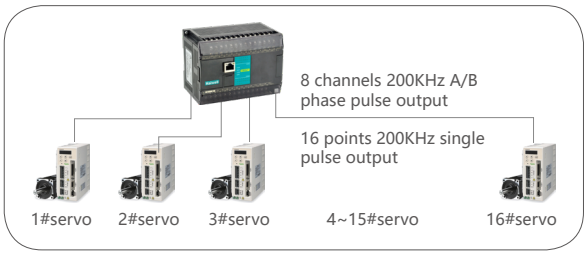
| Model | Specification | | | Dimension WxHxD |
|---|---|---|---|---|
| 24V DC | Specification | Conversion Accuracy | Communication | |
| H01WG | 1 channel weighing | 24 bits | RS485, supports remote IO function |  30×95×82mm |
| H02WG | 2 channels weighing | 24 bits | / | |

## Communication Modules

| Model | Specification | Dimension WxHxD |
|---|---|---|
| H01RS | With isolation ,1 RS232/RS485 communication port, Modbus RTU/ASCII protocol, freedom communication protocol, Haiwellbus, Baud rate 1200~115200bps,Supports 8,N,1 |  30×95×82mm |




Haiwell PLC with 16 encoders




Haiwell PLC with 16 servos


177×95×82mm


131×95×82mm


93×95×82mm


70×95×82mm


30×95×82mm



海纳百川

诚信有为


**XIAMEN HAIWELL TECHNOLOGY CO., LTD.**

Headquarters: 13-14/F, C03 Building, Phase III Software Park, Jimei District, Xiamen, Fujian, China
Factory: 4F, No. 336-2, Anbian Nan Road, Torch High-tech Zone (Xiang 'an) Industrial Zone, Xiang 'an District, Xiamen, Fujian, China. 361101
Tel: +86-592-2230312 Hotline: +86-4000-360-362
Email: service@haiwell.com
Website: www.haiwell.com


Haiwell APP

Haiwell Wechat


The parameters of product are subject to changes without prior notice. (Ver I - 202609)