Haiwell 海为®

MQTT Server

PLC with a built-in HMI

Haiwell Cloud

SmartLink Gateway

Card-type PLC

PWR   0   1   2   3
RUN   4   5   6   7
COM
ERR   W   G

A8-G

Model A8-G
Haiwell
24V DC   0.3A
P/N 710100112600010000.1

RST
RUN
STOP

IoT Inside

S/S
S/S
X0
X1
X2
X3
X4
X5
X6
X7

Haiwell

A8 SmartLink PLC

10 Highlights

- Support the full function of PLC and gateway.
- Download HMI program in gateway and use mobile phone as a monitor.
- 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 diaplay of HMI in other applications like software, APP 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.
- 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.

Model List

| Model	Storage (Flash+RAM)	Max Exp	I/O	LAN	COM	Satellite positioning	WIFI	Wireless Network	Dimension W×H×D(mm)
A8	4G+512M	15	8 DI	1	1+3		Yes		
A8-G	4G+512M	15	8 DI	1	1+3		Yes	4G eSIM	40×95×69mm
A8-E	4G+512M	15	8 DI	1	1+3		Yes	Global 4G	
A8-GP	4G+512M	15	8 DI	1	1+3	Yes		4G eSIM	
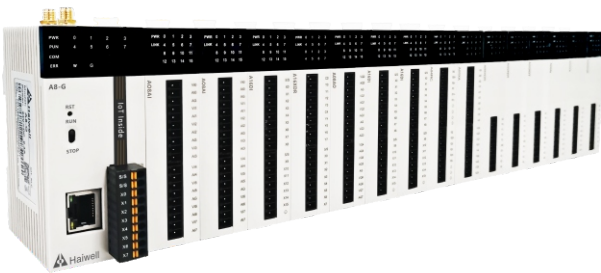
Features

All-in-One design
A8 support the full function of PLC and gateway. A8 provides 8 DI and can expand 15 modules.

SmartLink Gateway
Card-Type PLC
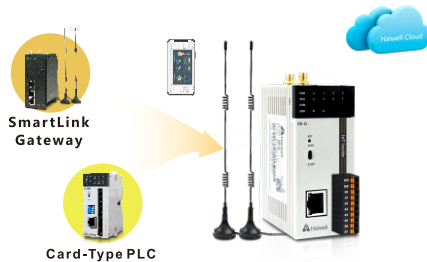
Use mobile phone as a monitor
Users can use mobile phone, tablet and desktop as a monitor to control gateway.

Using local mobile, iPads and computers as the control interface to realize local operations

Connection in LAN
All models have built-in IIoT technology which enables local access and open interface without internet.
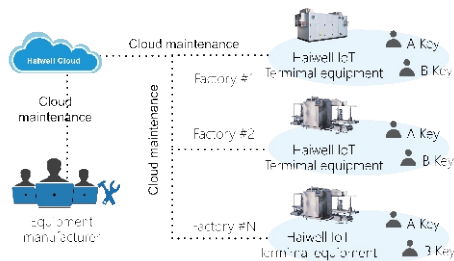

ERP
MES

Remote access
With the real-time control solution developed by Haiwell, concurrent users can remotely access HMI by APP and desktop.

SCAN QR

Cloud maintenance

It's easier for manufacturers to manage equipments by using remote maintenance function.

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.

IoT platform

All models support the connection to Alibaba Cloud IoT, AWS IoT and Google Cloud IoT Core.

Currently suppored IOT platforms. Keep updating...

Remote centralized control

All the data of remote devices can be acquired through MQTT broker for centralized control. Users don't even need to deploy server if using cloud data center.

Secure access

The remote access needs to be identified by the A/B key security mechanism. The remote control can be configured to be authorized on HMI.
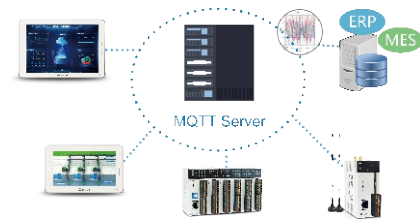

MQTT protocol

MQTT protocol is supported and applied to the connection with ERP/MES/database.
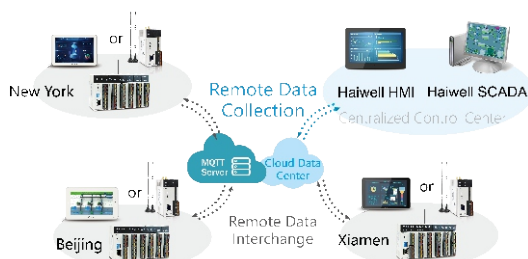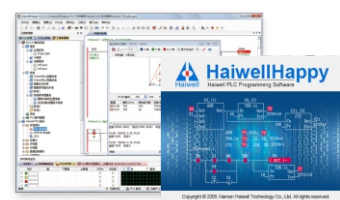

Display integration

The display of HMI can be embedded in other applications such as software, website, APP and etc so that they have remote access to HMI.
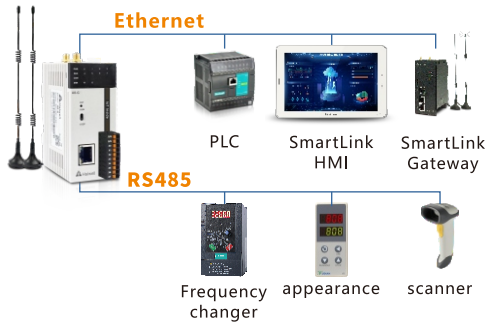

Innovative PLC instructions

Users can apply just one instruction to complicated function.

Simple and effective communication
You can use just one instruction to communicate with any other devices.

Ethernet

RS485

PLC | SmartLink HMI | SmartLink Gateway

Frequency changer | appearance | scanner

Digital display board
The production data, device state and video surveillance can be viewed on large screen by connecting with TVBOX. It can be applied to data visualization and centralized control.
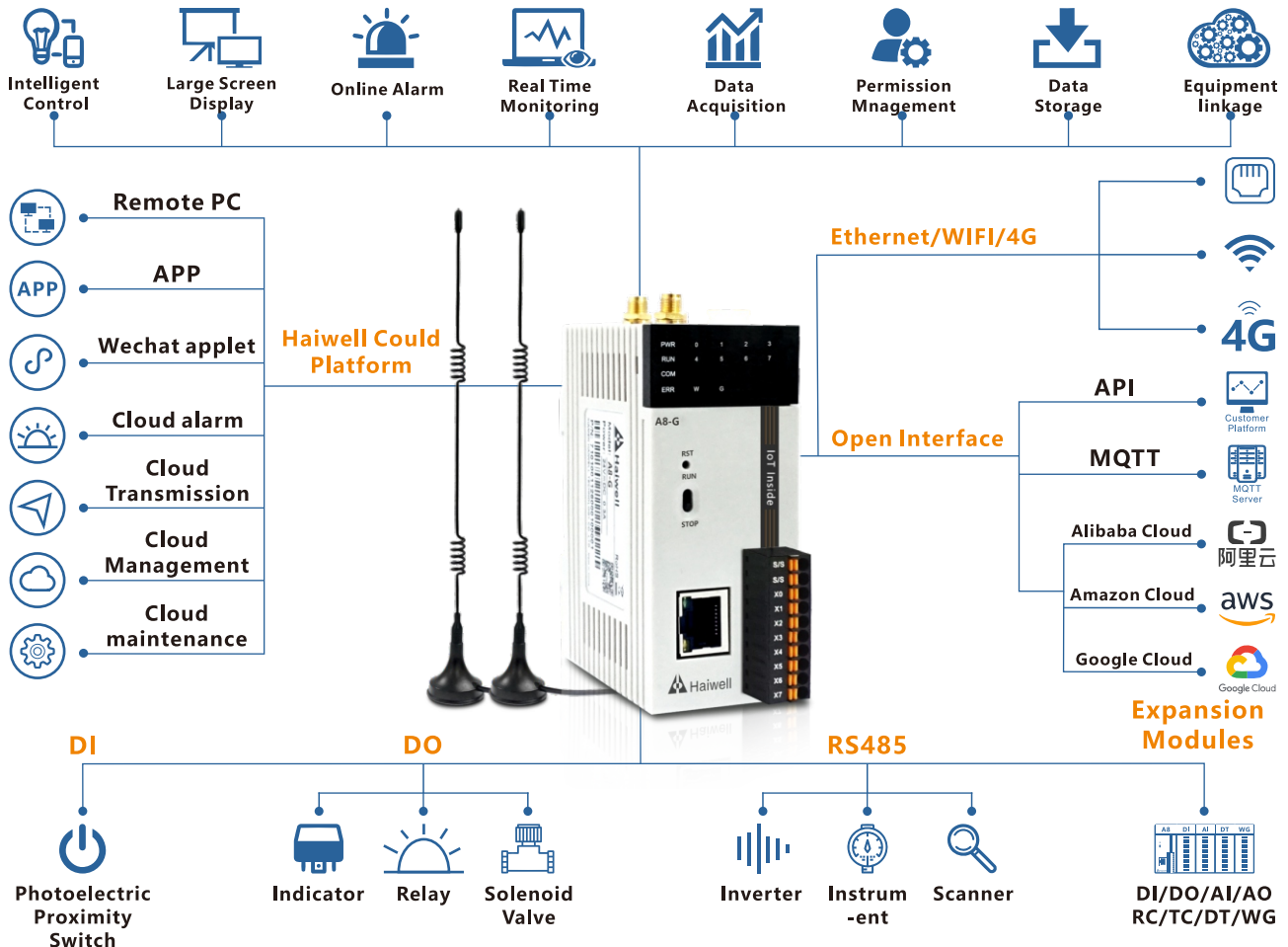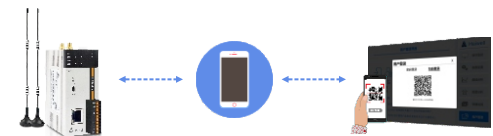
HDMI

Large Screen TV | Haiwell TVBOX

SmartLink Gateway XBOX

SmartLink HMI

A8 SmartLink PLC
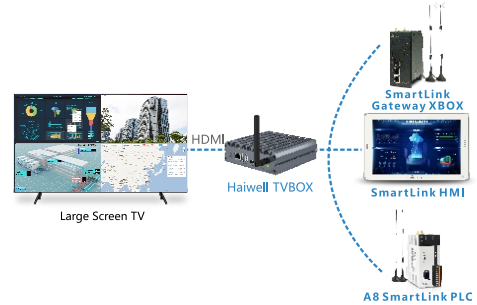
Mobile scanner
You can turn your mobile phone into a barcode scanner and enter information everywhere. It's more convenient than external scanner.

Mobile authentication
The identity of operator can be verified by using NFC recognition or scanning a QR code with mobile phone.

Intelligent Control | Large Screen Display | Online Alarm | Real Time Monitoring | Data Acquisition | Permission Mnagement | Data Storage | Equipment linkage

Remote PC

APP

Wechat applet

Haiwell Could Platform

Cloud alarm

Cloud Transmission

Cloud Management

Cloud maintenance

Ethernet/WIFI/4G

4G

Open Interface

API

MQTT

Customer Platform

MQTT Server

Alibaba Cloud | 阿里云

Amazon Cloud | aws

Google Cloud | Google Cloud

A8-G

IoT Inside

RST
RUN
STOP

Expansion Modules

DI | DO | RS485

Photoelectric Proximity Switch | Indicator | Relay | Solenoid Valve | Inverter | Instrum -ent | Scanner | DI/DO/AI/AO RC/TC/DT/WG

Specification

Model		A8	A8-G	A8-E	A8-GP
Software	Programming software	HaiwellHappy, Haiwell Cloud SCADA			
PLC parameters	Working mode	Periodic cyclic scanning			
	I/O updating	Update in each scan cycle or immediately			
	Processing speed	0.05μs / instruction			
	Programming language	LD+FBD+IL			
	Program capacity	48K			
	Storage	Permanent storage on Flash ROM without batter			
	Expansion	Support up to 15 modules			
I/O interface	Storage	Flash 4GB, RAM 512MB			
	Serial port	Isolated RS485 port * 1			
	Ethernet port	10/100 Base-T * 1			
	Factory reset	Yes			
	Switch S0	Single pole double throw			
	WIFI	Yes			
	4G	No	China 4G (e-sim)	Global 4G	China 4G (e-sim)
	SIM port	No	Micro SIM port		
	I/O port	8 photoelectric isolated digital inputs			
Power	Rated input power	24VDC±20%			
	Power consumption	< 8W			
	Power protection	Surge protection			
	Withstand voltage	500V AC			
Environment	Temperature & Humidity	Operating temperature: -10~+60℃ ; Storage temperature: -20~70+℃ , Relativehumidity: 10~90%RH (Non-condensing)			
	Vibration resistance	10 - 57Hz: 0.075mm, 1G, 10 times in each of X,Y or Z direction			
	Impact resistance	15G, 11ms, 6 times in each of X,Y or Z direction			
	Insulation resistance	50MΩ @500VDC or more			
	Protection grade	Pass 48-hour salt spray test			
	Cooling method	Natural air circulation			
Structure	External dimensions	40mm*95mm*69mm (W*H*D)			
	Material	ABS and PC (flame-retardant)			

Dimensional interface description
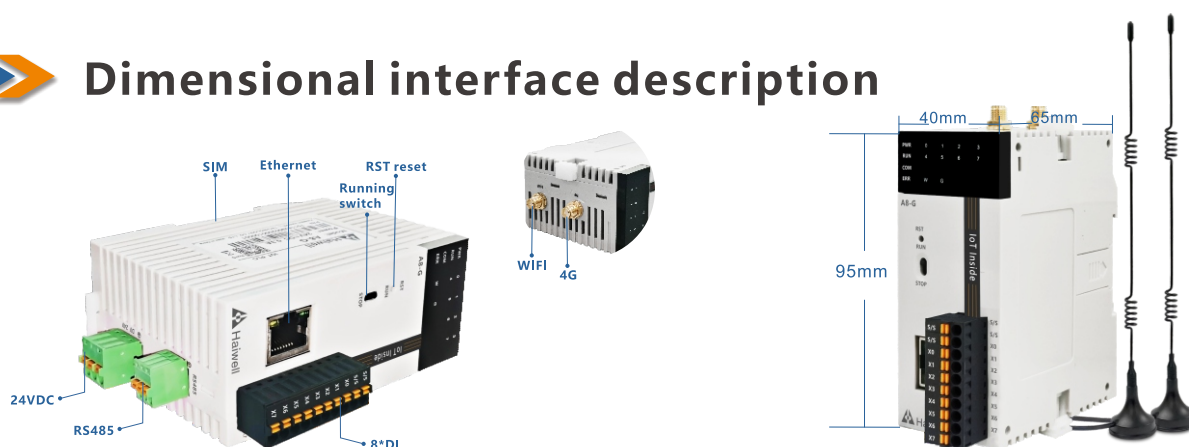
海纳百川
诚信有为

XIAMEN HAIWELL TECHNOLOGY CO., LTD.

CE FC ISO
ISO9001:2015

Haiwell APP   Haiwell Wechat

The parameters of product are subject to changes without prior notice. (Ver I - 202412)