

PLC with a built-in HMI



Intelligent  
Gateway



Card-type PLC



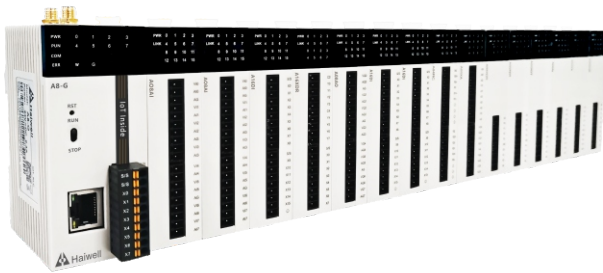
# A8 Intelligent PLC

## 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 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.
- 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	Local Camera	WIFI	Wireless Network	Dimension W×H×D(mm)
A8	4G+512M	15	8 DI	1	1+3		Yes	Yes		40×95×69mm
A8-G	4G+512M	15	8 DI	1	1+3		Yes	Yes	4G eSIM	
A8-E	4G+512M	15	8 DI	1	1+3		Yes	Yes	Global 4G	
A8-GP	4G+512M	15	8 DI	1	1+3	Yes	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.



### Use Mobile Phone As a Monitor

Users can use mobile phone, tablet and desktop as a monitor to control gateway.



### Connection In LAN

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



### Remote Access

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

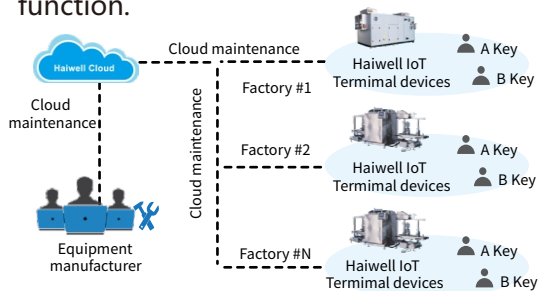






### Cloud Maintenance

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



### 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.



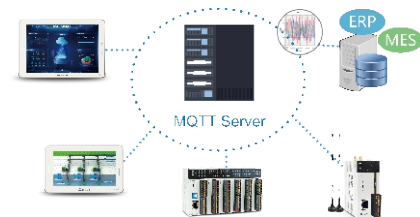
### Data Security

The user data is not stored in Haiwell cloud. All the data can be stored in private or public server assigned by users.



### MQTT Protocol

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



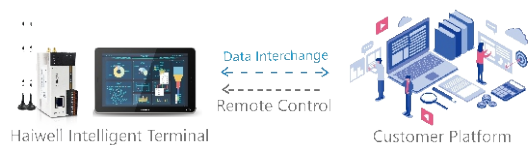
### IoT Platform

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



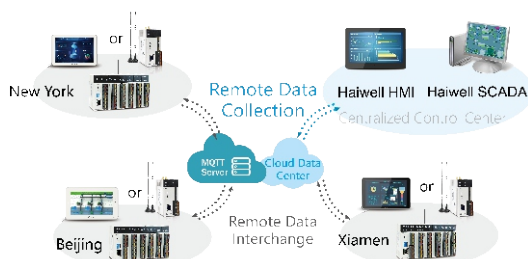
### Display Integration

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.



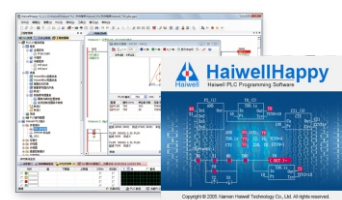
### Remote Centralized Control

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.



### Innovative PLC Instructions

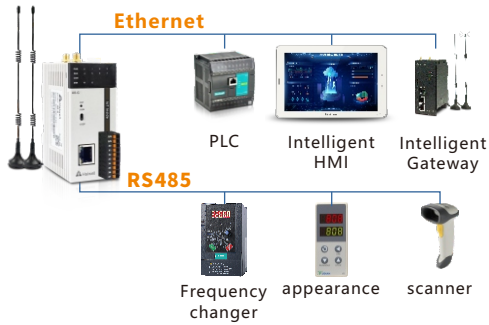
Users can apply just one instruction to complicated function.





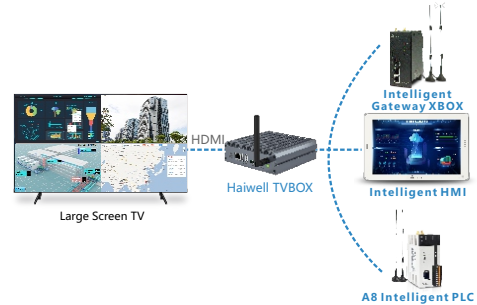
### Simple And Effective Communication

Users can use just one instruction to communicate with any other devices.



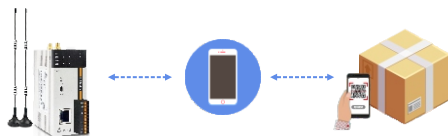
### Digital Display Board

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.



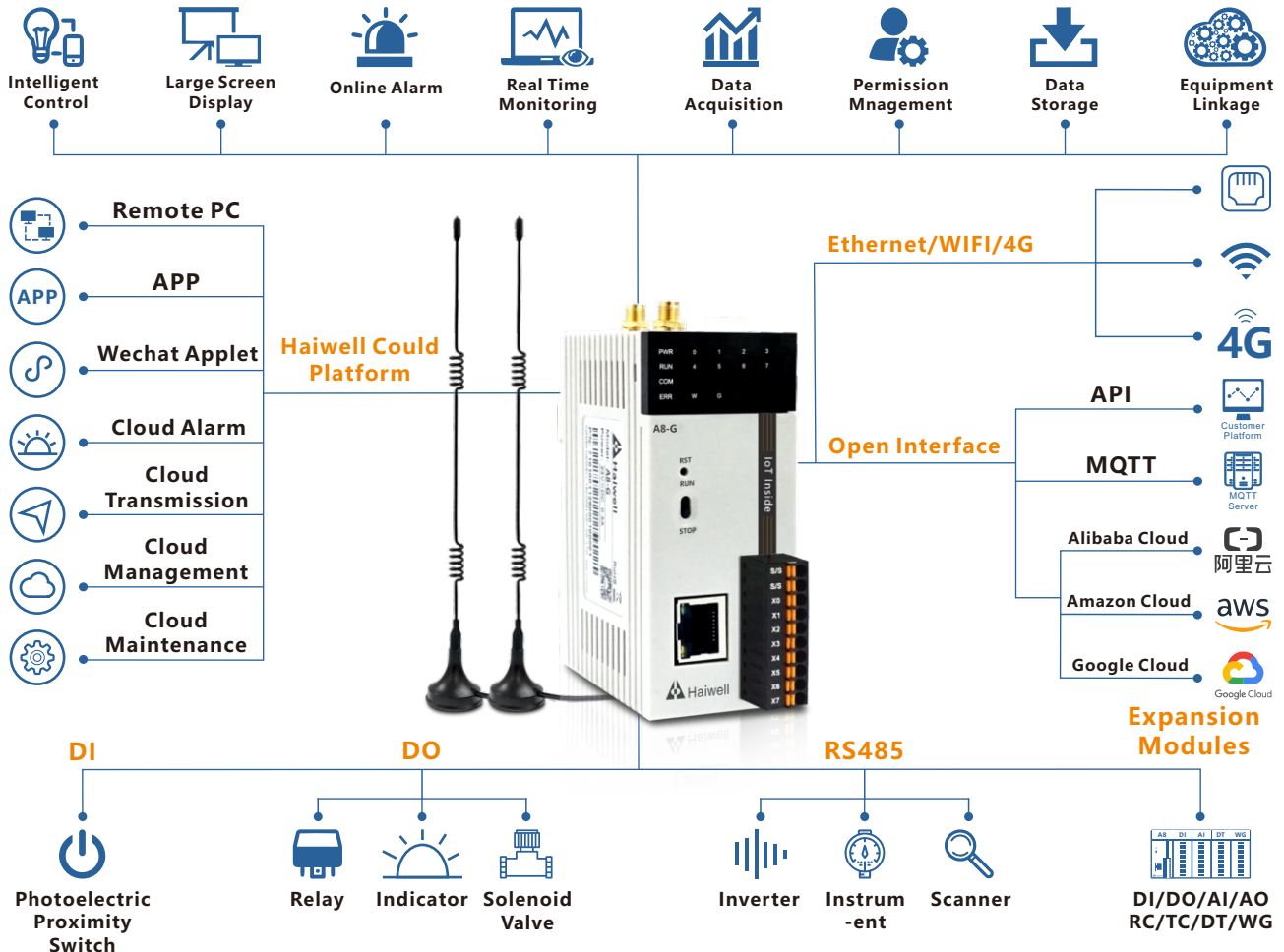
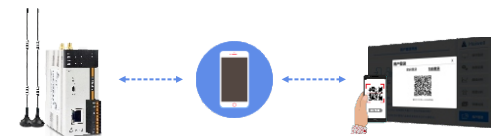
### Mobile Scanner

Users 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 recognition or scanning a QR code with mobile phone.

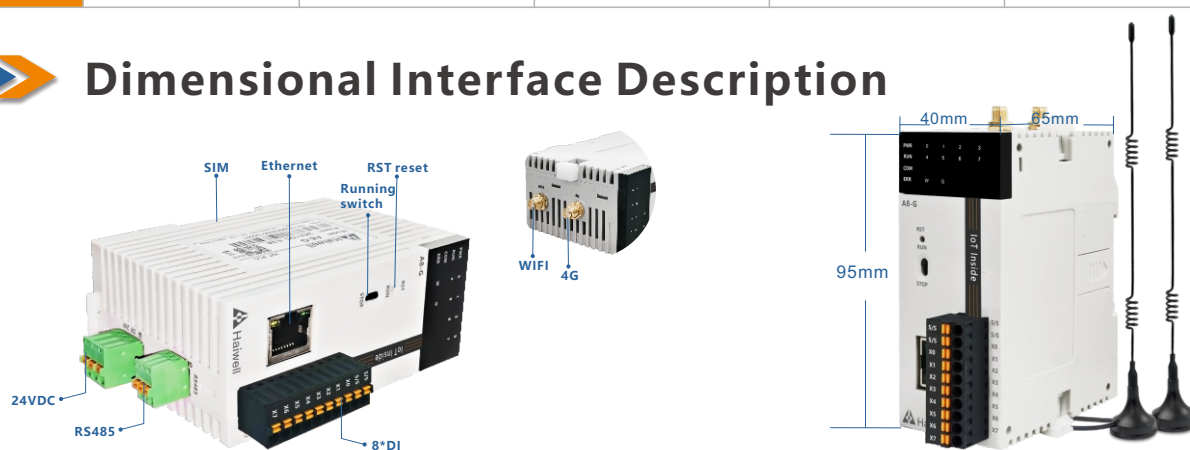




## Specification

	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			
	SIM port	No	Micro SIM port*1		
	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			
	Insulation resistance	50MΩ @500VDC or more			
Environment	Temperature & Humidity	Operating temperature: -10~+60 ℃ ; Storage temperature: -20~70+ ℃ , Relativehumidity: 10~90%RH (Non-condensing)			
	Vibration resistance	10 - 25Hz (X.Y and Z axis 2G/30 minutes )			
	Impact resistance	15G, 11ms, 6 times in each of X,Y or Z direction			
	Cooling method	Natural wind cooling			
Structure	External dimensions	40mm*95mm*69mm (W*H*D)			
	Material	Engineering plastic ABS + PC (flame retardant grade)			
Function	Satellite Positioning	No			Yes
	WIFI	Yes			No
	4G	No	China 4G (e-sim)	Global 4G	China 4G (e-sim)

## Dimensional Interface Description





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Haiwell APP



Haiwell Wechat

The parameters of product are subject to changes without prior notice. (Ver I - 202511)