Haiwell 海为®

MQTT Server

PLC with a built-in HMI

Haiwell Cloud



Intelligent Gateway



Card-type PLC



A8 Intelligent PLC

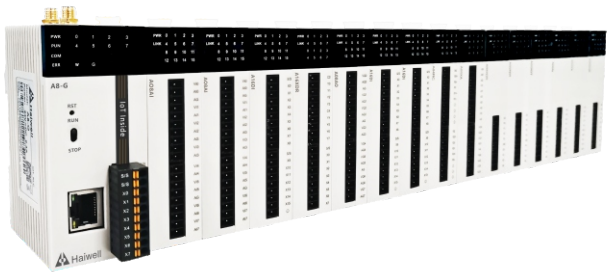
10 Highlights

- 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 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	Local Camera	Satellite Positioning	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-EP	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	

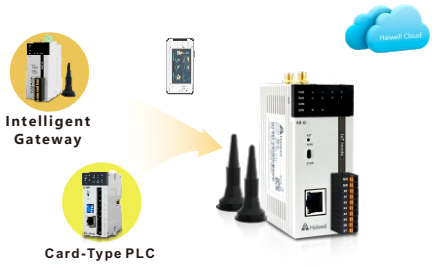




Features

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

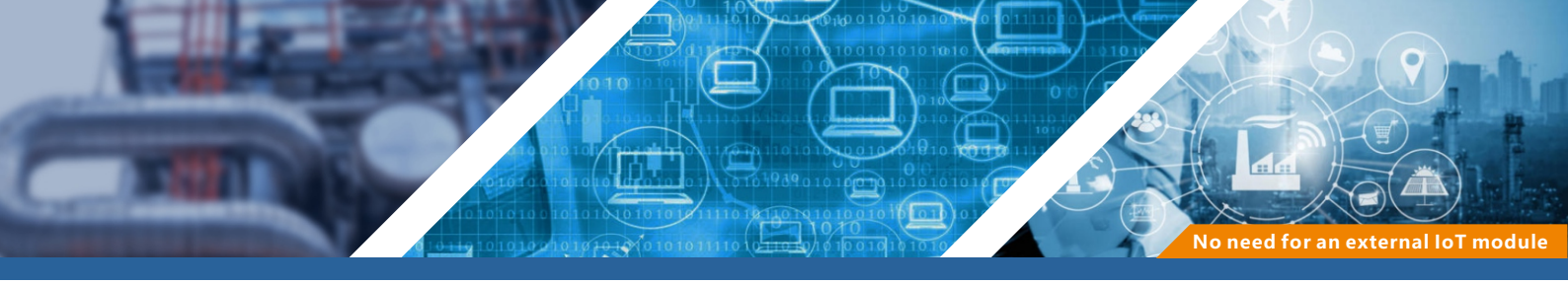
All models have built-in IIoT technology which enables local access and open interface without internet.



Remote Access

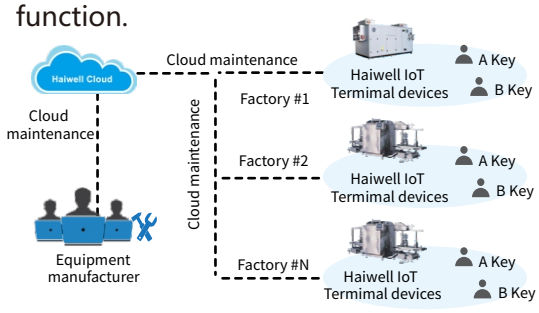
With the real-time control solution developed by Haiwell, concurrent users can remotely access HMI by APP and desktop.





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.



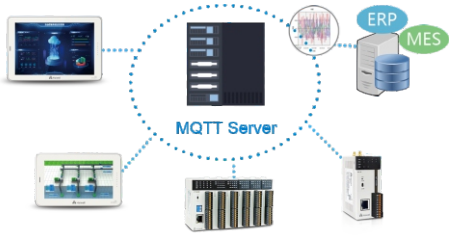
Data Security

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

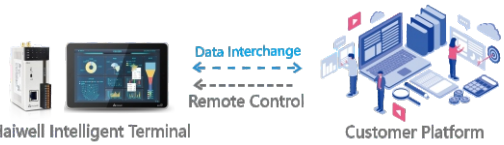
All models support the connection to Alibaba Cloud IoT, AWS IoT and Google Cloud IoT Core.



Currently suppored IOT platforms. Keep updating...

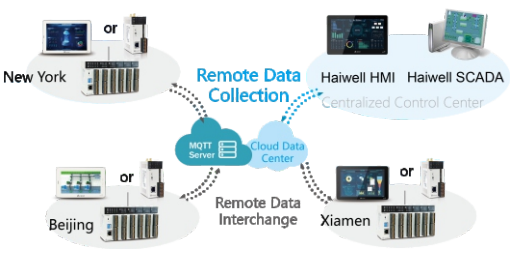
Display Integration

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.



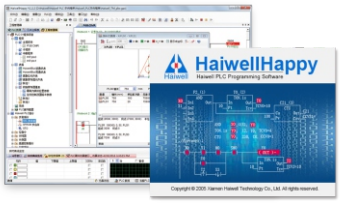
Remote Centralized Control

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

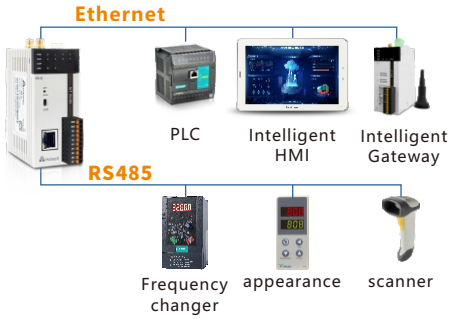
Users can apply just one instruction to complicated function.





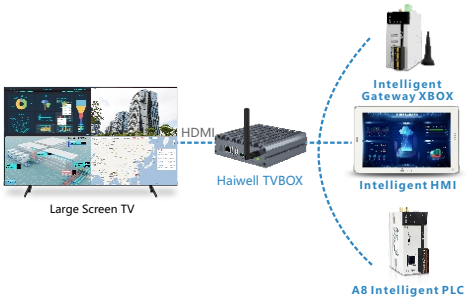
Simple And Effective Communication

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.



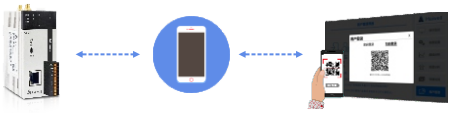
Mobile Scanner

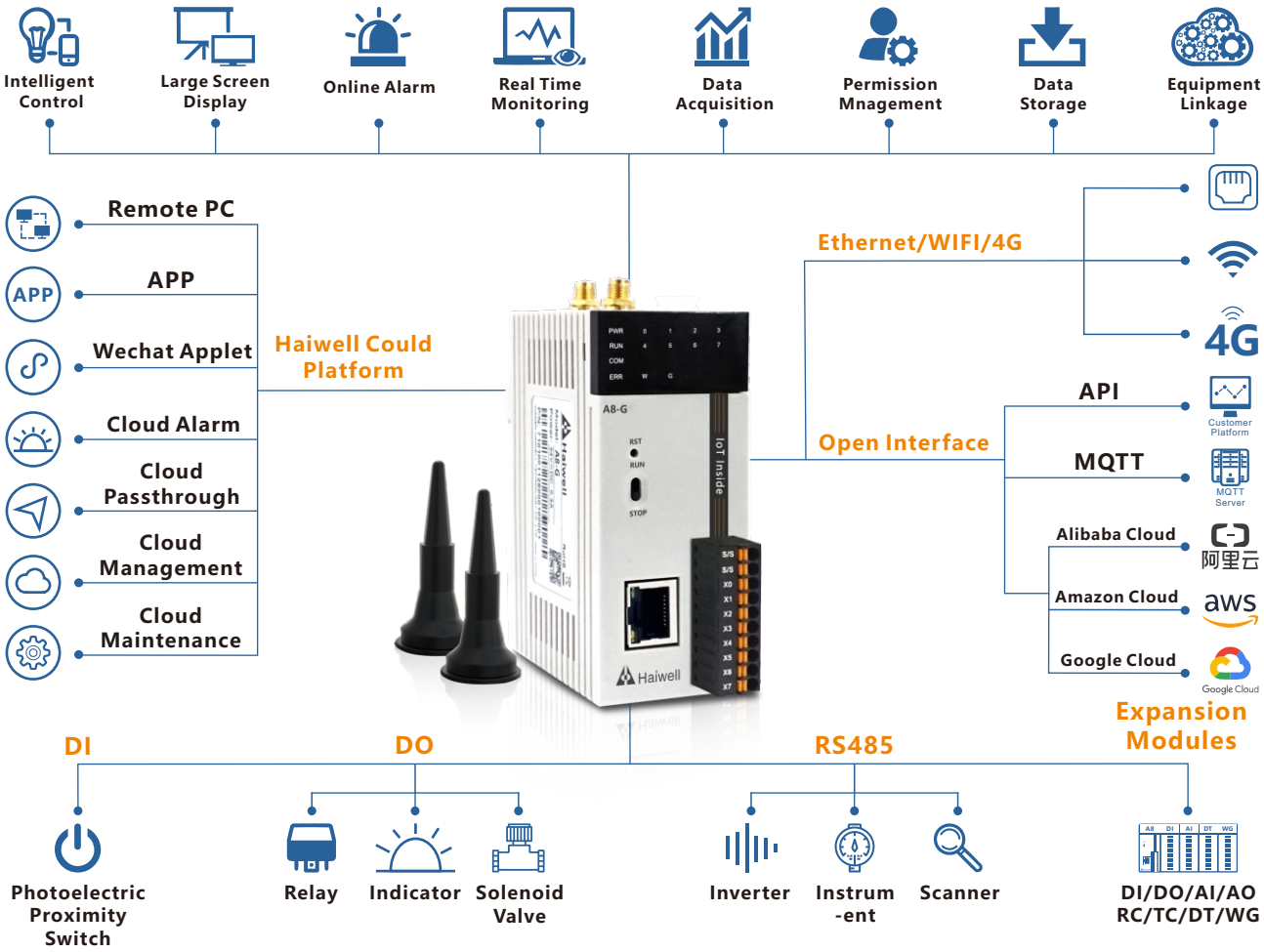
Users can turn your mobile phone into a barcode scanner and enter information everywhere. It's more convenient than external scanner.



Mobile Authentication

The identity of operator can be verified recognition or scanning a QR code with mobile phone.



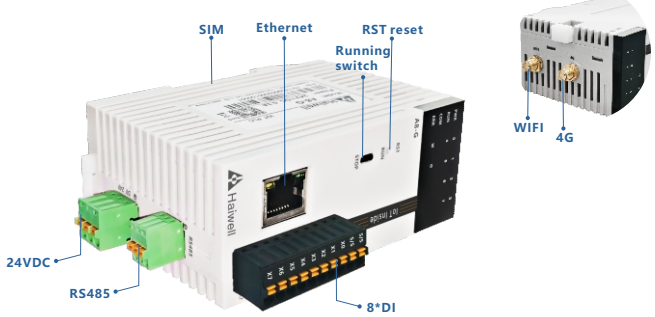


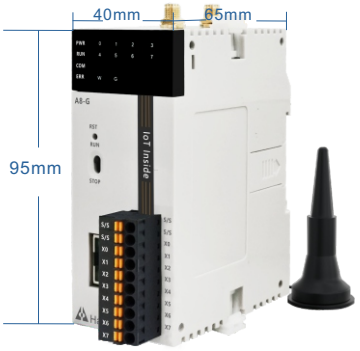


Specification

Model		A8	A8-G	A8-E	A8-EP	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	Yes
	WIFI	Yes			No	No
	4G	No	China 4G (e-sim)	Global 4G	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 - 202605)