Haiwell海为®

Intelligent Gateway

CBOX



11 Highlights

- Download HMI program in gateway and use mobile phone as a monitor.
- Enable simple connection between gateway, HMI, mobile phone, tablet, computer, TV and camera over the Internet.
- 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.
- Include intelligent functions such as TTS output, intercom, audio playing, video surveillance 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.
- Support Beidou positioning and trajectory tracking.
- Enable simple connection between gateway, HMI, mobile phone, tablet, computer, TV and camera in local area network.

Model List

Model	Storage	LAN	USB	COM	Voice	Local Camera	Satellite Positioning	WIFI	Wireless Network	Dimension
CBOX	4G + 512M	2	2	2	Yes	Yes		Yes		40×95×69mm
CBOX-G	4G + 512M	2	2	2	Yes	Yes		Yes	China 4G	
CBOX-GP	4G + 512M	2	2	2	Yes	Yes	Yes		China 4G	
CBOX-E	4G + 512M	2	2	2	Yes	Yes		Yes	Global 4G	
CBOX-EP	4G + 512M	2	2	2	Yes	Yes	Yes		Global 4G	

Ethernet Interface

WIFI Network

USB Interface

Cloud Function

Voice Function

Edge Computing

4G Network

Product Features

Use Mobile Phone as a Monitor

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

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



Configuration

A/B Key

Remote Monitoring

Realtime Alarm

Connection In LAN

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



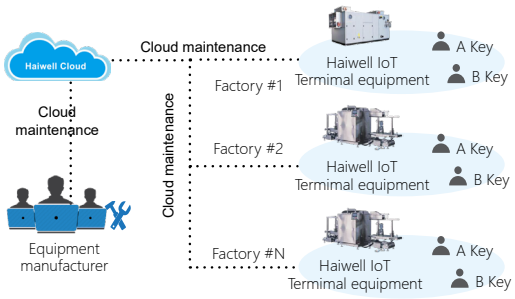
Remote Access

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



Cloud Maintenance

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



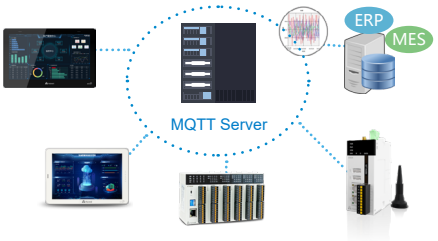
Secure Access

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



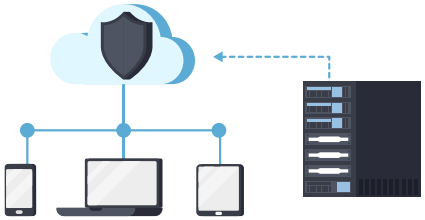
MQTT Protocol

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



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

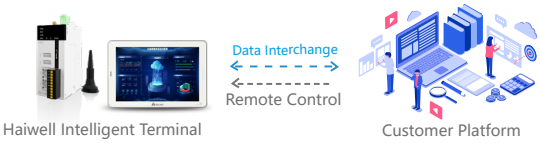
All models support the connection to Alibaba Cloud IoT, AWS IoT and Google Cloud IoT Core.

aws Google Cloud 阿里云

Currently suppored IOT platforms. Keep updating...

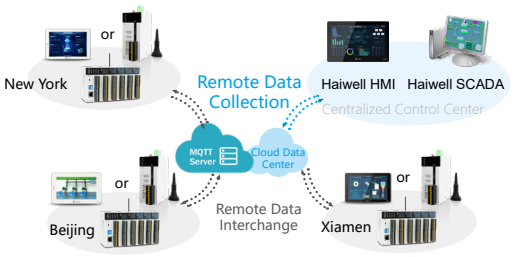
Display Integration

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



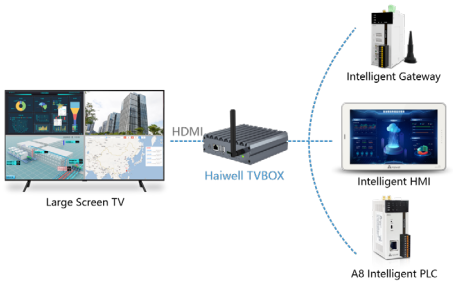
Remote Centralized Contro

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.



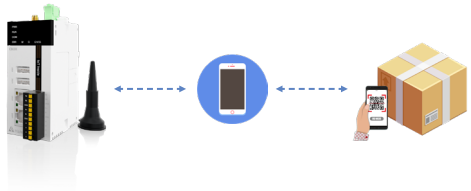
Digital Display Board

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

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



Satellite Positioning

Support Beidou positioning and trajectory tracking. Users can check the realtime position of devices.



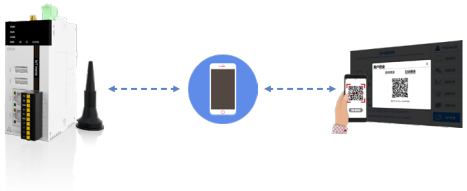
Voice Broadcast

All models can connect with microphone and speaker by USB to audio adapter and support text to speech, playing audio files, voice intercom, voice broadcast and remote intercom with APP.

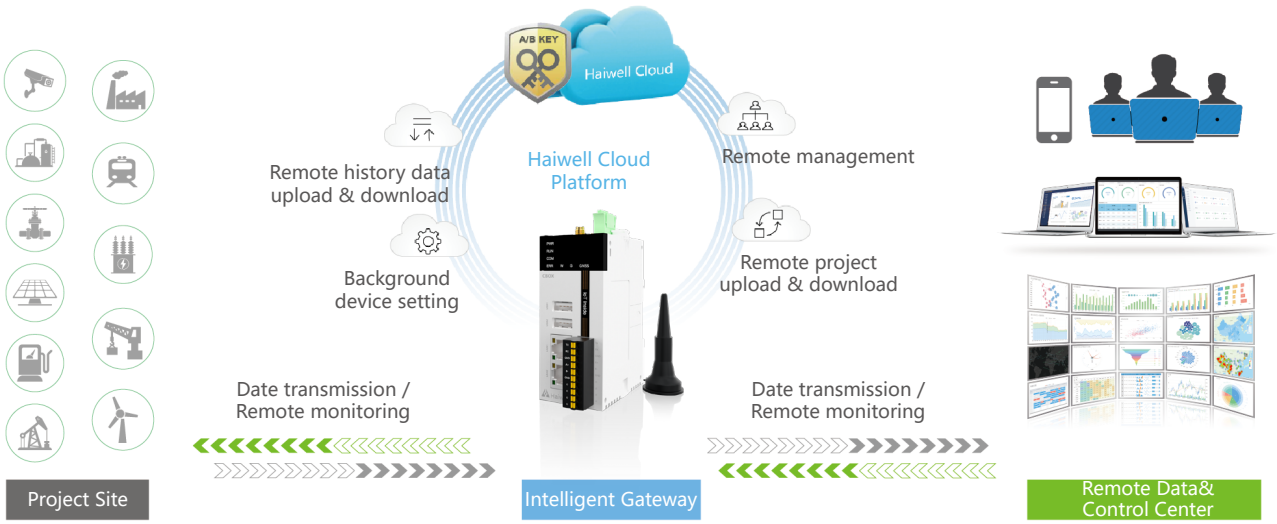


Mobile Authentication

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



Architecture Diagram



Specification

Specification		CBOX	CBOX-G	CBOX-E	CBOX-EP	CBOX-GP
Software		Haiwell Cloud SCADA				
Display	Flash	4GB				
	RAM	512MB				
	Serial port	COM1:RS232*1 COM2:RS485*1				
	Ethernet	10/100 Base-T*2				
	USB	USB 2.0*2				
	RTC	Yes				
Power	Rated input voltage	24V DC±20%				
	Power Consumption	5W@24V DC				
	Power protection	Equipped with surge protection and anti reverse connection protection				
	Withstand voltage	500V AC				
	Insulation resistance	Exceed 50MΩ @500VDC				
Enviroment	Storage temperature	-20℃ ~70℃				
	Operating temperature	-10℃ ~60℃				
	Relative humidity	10%~90%RH (non-condensing)				
	Cooling method	Natural wind cooling				
	Vibration Endurance	10 - 25Hz (X.Y and Z axis 2G/30 minutes)				
	Impact resistance	15G, 11ms, 6 times in each of X,Y or Z direction				
Structure	External dimensions	40mm*95mm*69mm				
	Material	Engineering plastic ABS + PC (flame retardant grade)				
	Installation	Guide rail				
Function	WIFI	Yes			No	No
	Satellite positioning	No			Yes	Yes
	Wireless	No	China 4G	Global 4G	Global 4G	China 4G

海纳百川

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Haiwell APP

Haiwell Wechat

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