



# SmartLink 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 in local area network.
- 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 display 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 information in HMI.
- Apply to data visualization or centralized control on large screen by TVBOX.
- Support Beidou positioning and trajectory tracking.



## Model List

Model	Storage	LAN	USB	COM	Voice	GPS	WiFi	Wireless Network	Dimension
CBOX	4G + 512M	2	2	2	Yes		Yes		50×120×85mm
CBOX-G	4G + 512M	2	2	2	Yes		Yes	China 4G	
CBOX-GP	4G + 512M	2	2	2	Yes	Yes		China 4G	
CBOX-E	4G + 512M	2	2	2	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.



Config



AB Key



Remote Monitoring



Realtime alarm



### Connection in LAN

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



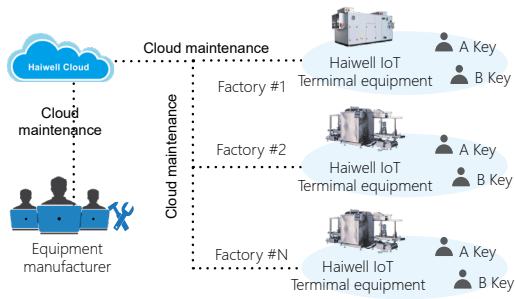
### Remote access

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.



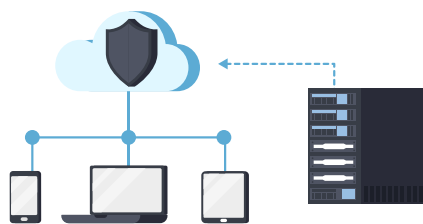
### Secure access

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.



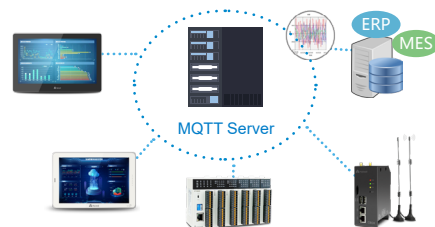
### Data security

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.

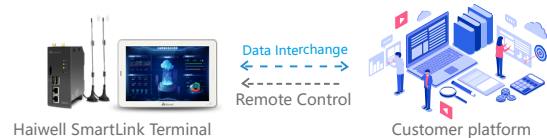


Currently supported IOT platforms. Keep updating...



### Display integration

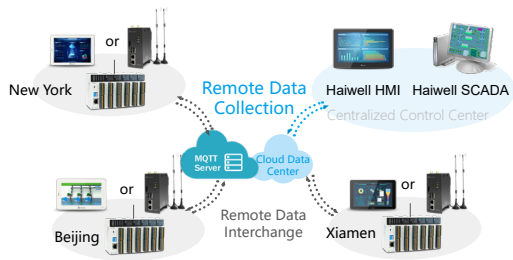
The display of gateway can be embedded in other applications such as software, website, APP and etc so that they have remote access to gateway.





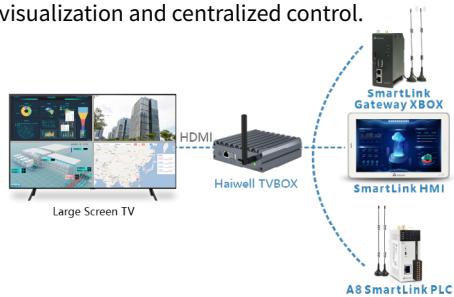
### Remote centralized contro

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.



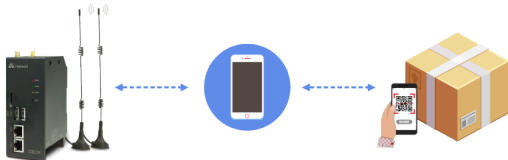
### Digital display board

The production data, device state and video surveillance can be viewed on large screen by connecting with TVBOX. It can be applie 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.



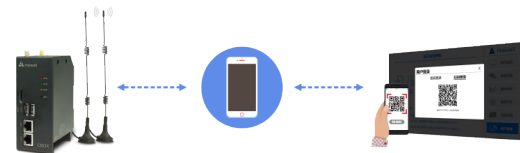
### Voice broadcast

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.

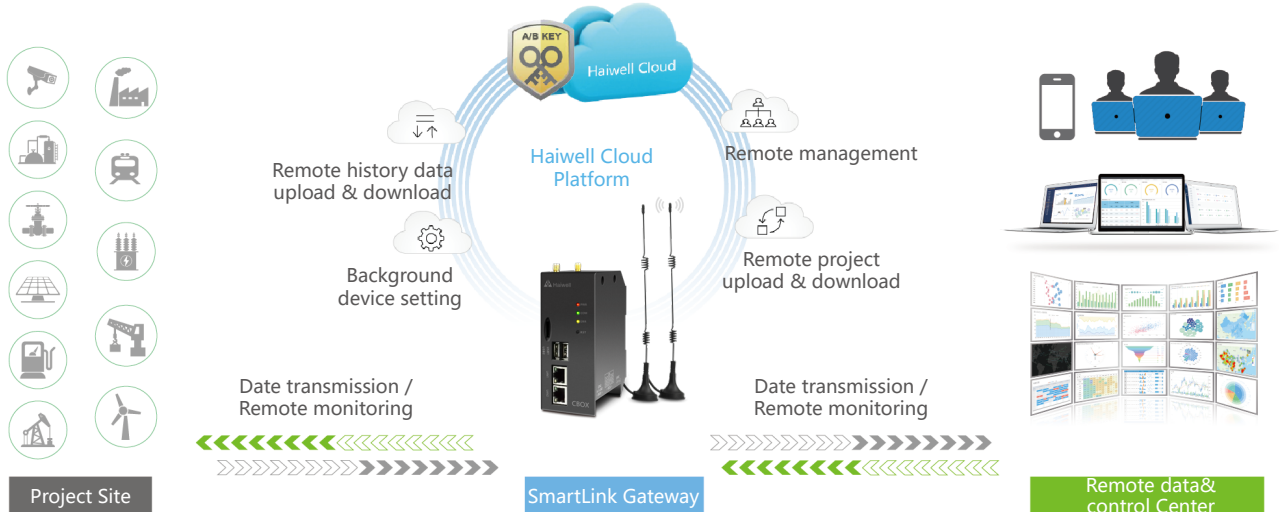


### Mobile authentication

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

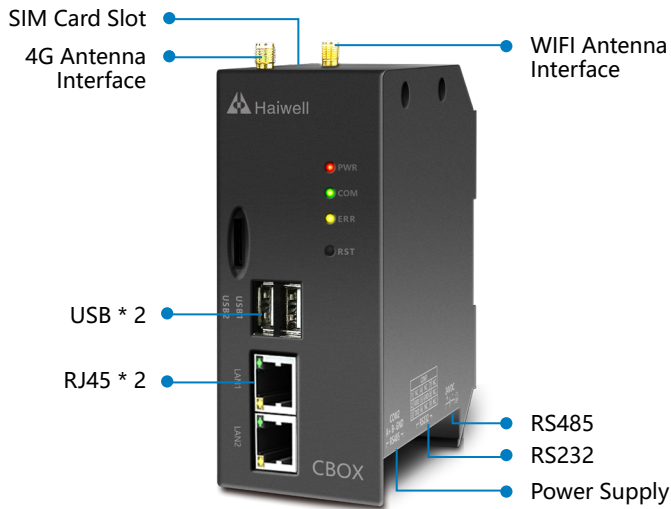


## Architecture Diagram





## Interface Description



### 4G Networking

In the case of outdoor work such as mining, or limited networking conditions, 4G networking will be very helpful.



### Fearless from the wind and the sun

Strong housing protection design, even in harsh outdoor environments, no need to worry about hardware damage caused by exposed to the sun.



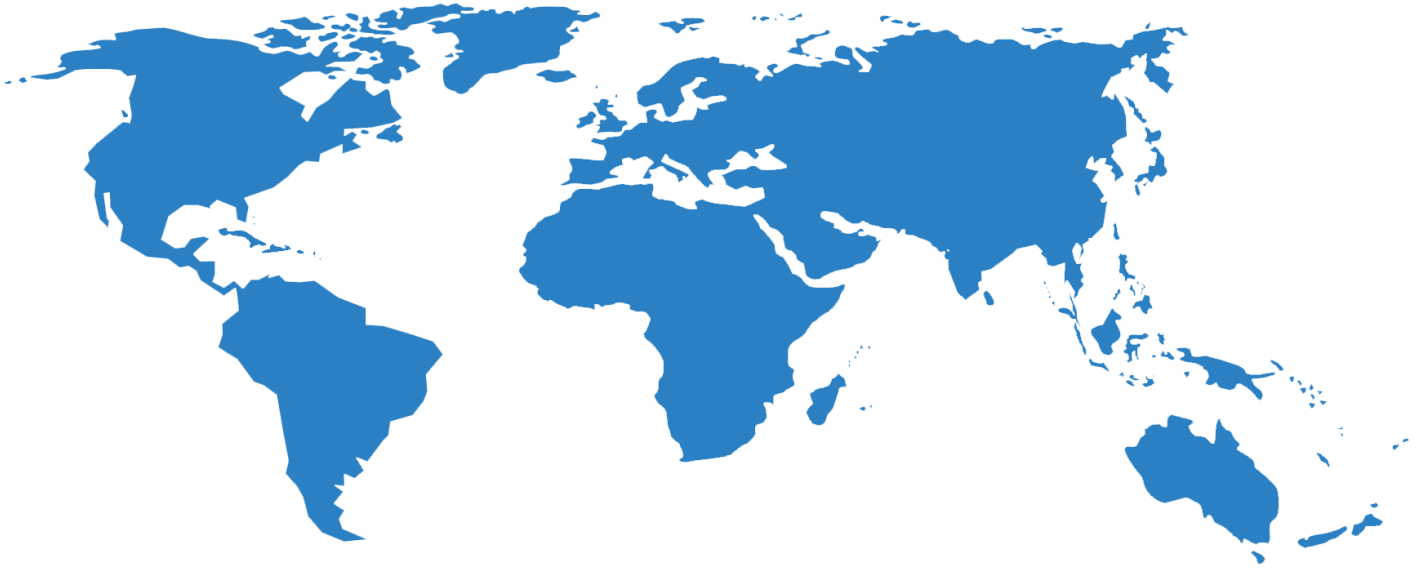
### Inside or outside cabinet installation

No additional cabinet protection required, can be installed inside or outside the cabinet, saving costs.



## Specification

Specification		CBOX
Software		Haiwell Cloud SCADA
Display	Flash	4GB
	RAM	512MB
	Serial port	COM1:RS232*1 COM2:RS485*1
	Ethernet	10/100 Base-T*2
Power	USB	USB 2.0*2
	RTC	Yes
	Rated input voltage	24V DC±20%
	Power Consumption	7W@24V DC
	Power protection	Surge protection and anti-reverse protection
	Withstand voltage	500V AC
	Insulation resistance	Exceed 50MΩ @500VDC
Environment	Storage temperature	-20~70°C
	Operating temperature	-10~60°C
	Relative humidity	5~95%RH, (non-condensing)
	Cooling method	Natural air circulation
	Vibration Endurance	10 ~ 25 Hz X, Y, Z direction 2G/30 min
	Impact resistance	15G, 11ms, 6 times in each of X,Y or Z direction
	Operating environment	Prevention of dust, moisture, corrosion,electric shock and external
Structure	External dimensions	50mm*120mm*88mm
	Material	ABS and PC (flame-retardant)
	Installation	DIN rail mounting
Feature	WiFi	Optional (802.11b/g/n)
	GPS	Optional
	Wireless	Optional (4G)



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Haiwell APP



Haiwell Wechat

The parameters of product are subject to changes without prior notice. (Ver I - 202407)