



"Non-screen Haiwell Intelligent HMI"

MQTT
Server

Haiwell Cloud



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 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.
- 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		50×120×85mm
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	



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



A/B Key



Remote Monitoring



Realtime Alarm



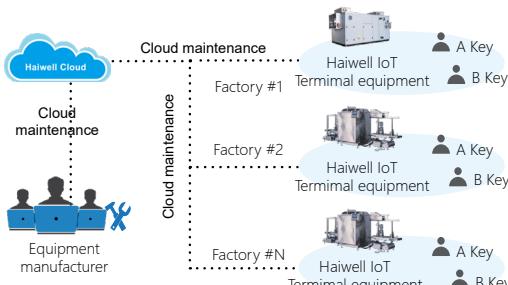
Connection In LAN

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



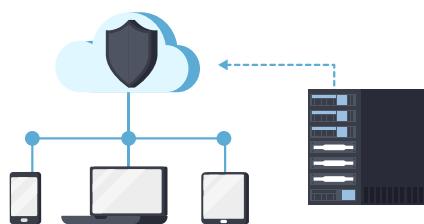
Cloud Maintenance

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 supported IOT platforms. Keep updating...



Remote Access

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



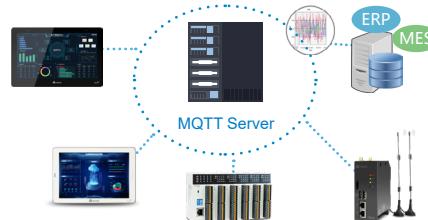
Secure Access

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.



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.



Haiwell Intelligent Terminal

Data Interchange
← →
← →
Remote Control

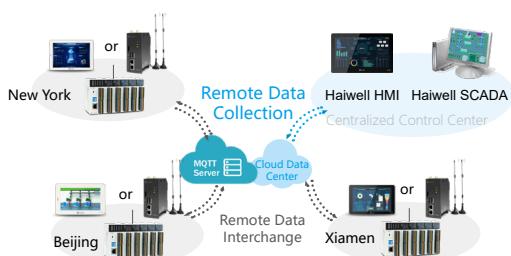


Customer Platform



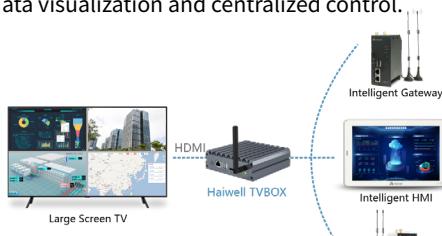
Remote Centralized Control

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.



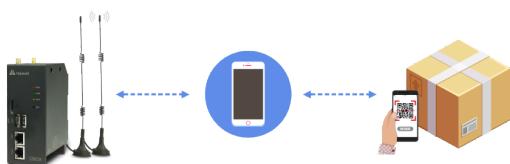
Digital Display Board

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 convenient than external scanner.



Satellite Positioning

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



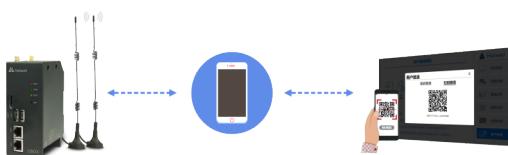
Voice Broadcast

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.

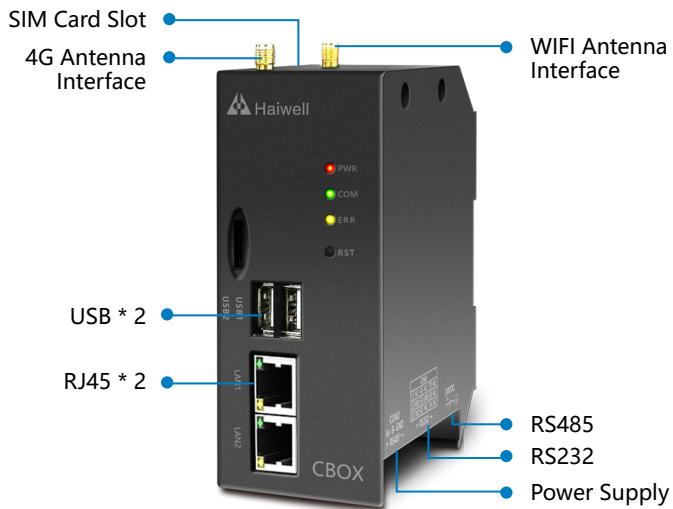


Architecture Diagram





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 exposure 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	CBOX-G	CBOX-E	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		7W@24V DC		
	Power protection		Equipped with surge protection and anti reverse connection protection		
	Withstand voltage		500V AC		
	Insulation resistance		Exceed 50MΩ @500VDC		
Environment	Storage temperature		-20°C ~70°C		
	Operating temperature		-10°C ~60°C		
	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		
	Operating environment		Dustproof, moisture proof, corrosion resistant, and protected from electric shock and external impact environments		
	External dimensions		50mm*120mm*88mm		
Structure	Material		Engineering plastic ABS + PC (flame retardant grade)		
	Installation		DIN rail mounting		
Function	WiFi		Yes		No
	Satellite Positioning		No		Yes
	Wireless	No	China 4G	Global 4G	China 4G



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Haiwell APP



Haiwell Wechat

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