

Non-Screen IoT HMI with IO Points

Small Box, Great Ability



# IoT Cloud Box - XBOX

3in1 = IoT Gateway + RTU + HMI



Built-in IO points, integrated RTU functions.  
Standard 8 digital point. Support user-defined DI/DO



Built-in Web API function, can control  
and obtain the device data through  
HTTP protocol



Support configuration screen integration.  
Device screen can be integrated into various  
personalized scenes



Local mobile, iPads and computers  
can be used as the control interface to  
realize local operations

## Model List

Model	Storage	I/O	LAN	COM	WIFI	Wireless Network	Dimension (mm) w×h×d
XBOX	4G + 512M	8 DI	1	1	Yes		40×95×65
XBOX-G	4G + 512M	8 DI	1	1	Yes	China 4G	
XBOX-E	4G + 512M	8 DI	1	1	Yes	Global 4G	
XBOX Pro	4G + 512M	8 DI/DO, User-defined	1	1	Yes		40×95×65
XBOX-G Pro	4G + 512M	8 DI/DO, User-defined	1	1	Yes	China 4G	
XBOX-E Pro	4G + 512M	8 DI/DO, User-defined	1	1	Yes	Global 4G	

- Built-in 8 digital points. User can customize DI/DO. Design for flexible application is more and cost-effective.
- Built-in Web API function, can control and obtain the device data through HTTP protocol.
- Support configuration screen integration. Device screen can be integrated into various personalized scenes.
- Support access to third-party IoT platforms such as Alibaba Cloud, Amazon, Google, etc.
- Integrated HMI+RTU+IoT Gateway functions all in one. Supports accessing through mobile APP/PC etc.
- Management by Cloud SCADA. Built-in Haiwell Cloud engine, integrated Haiwell Cloud service
- Support base station positioning, IP positioning, device map viewing. Real-time device status can be viewed through mobile APP or large monitor screen.

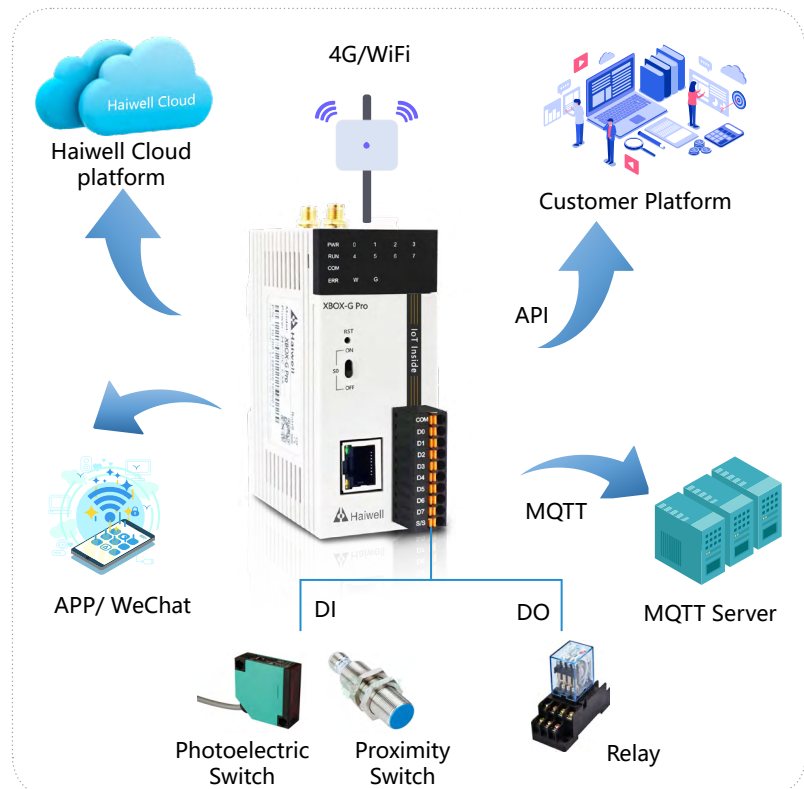
## Application

More than having serial port / Ethernet communication, and HMI+PLC mode, the XBOX comes with configurable IO points, realize real-time data collection and transmission.

XBOX can connect to Haiwell IoT Cloud platform through WiFi/Ethernet/4G multiple ways to push data to the Cloud server, and realize remote configuration, diagnosis and management through the platform.

By Haiwell APP and WeChat applet, you can remotely monitor it, view historical data, and receive alarm information.

XBOX supports data query by connecting to the customer's self-developed platform through the API interface. Support connect to MQTT server to realize data transmission and storage.



## Features

- I/O** **Built-in IO points, integrated RTU functions**  
 Built-in 8 digital points. User can customize DI/DO. More flexible for applications.
- API** **Web API Interface**  
 Third-party software and platforms can easily and securely obtain device data and control devices through the built-in Web API function using HTTP protocol, support real-time data push, support PHP, Java, C#, C++ languages. Support Internet and LAN network.
- Configuration Screen Integration**  
 Innovatively opened the integration function of the device configuration screen to third parties. Device screen can be integrated into a variety of personalized scenarios such as third-party software, websites, APPs, and applets. Let third-party applications immediately have the remote control capabilities of the device.



#### Multiple security protection mechanisms

Higher safety level with A/B Key + local confirmation safety mechanism, ensure the safe and stable operation of equipments.



#### Connect to database

Real-time&history data can be stored to MySQL、SQL Server etc. Support data distribution, and cooperate to generate various real-time data reports.



#### Real-time alarm notification

Alarm information can be pushed to designated management personnel by APP, WeChat, etc.



#### MQTT protocol & Built-in MQTT server

Support MQTT protocol. Can be connected to database server/ERP/MES etc. Actively report, supports millions of terminal concurrent networks. Built-in MQTT server.



#### Equipment manufacturer maintains identity

Exclusive maintenance identities and enterprise platform for equipment manufacturers, convenient for administrator management



#### Cloud transparent transmission

Support remote programming, uploading and downloading, firmware upgrade, diagnosis, monitoring and debugging of PLC etc.



#### Remote data interaction

Supports remote device data interaction through MQTT server, and invocation of the remote device data by Haiwell Cloud SCADA.



#### Supports multiple protocols

Supports for multiple third party protocols. Built-in a variety of industrial equipment drivers



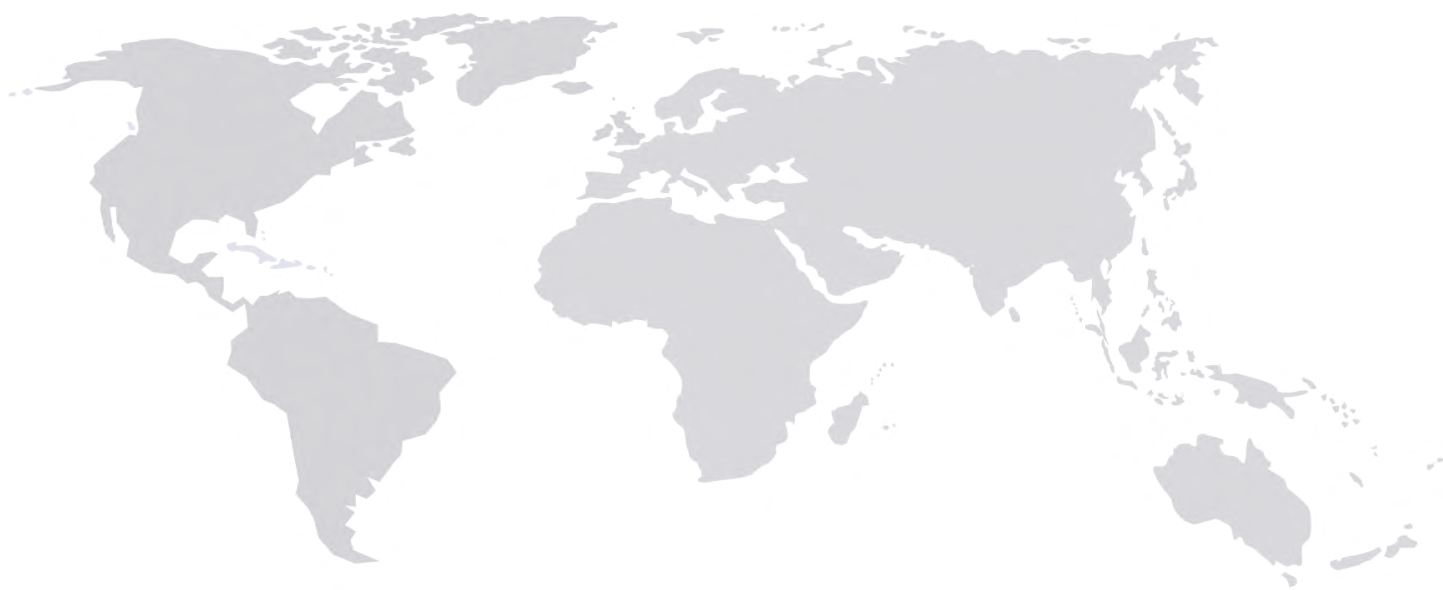
Currently supported IOT platforms. Keep updating...



Using local mobile, iPads and computers as the control interface to realize local operations

## Specification

Specification		XBOX	XBOX-G	XBOX-E	XBOX Pro	XBOX-G Pro	XBOX-E Pro
Software		Haiwell Cloud SCADA					
Power	Input power	24VDC±20%					
	Power Consumption	< 5W					
	Power Protection	Surge protection					
	Voltage Resistance	500V AC					
Enviroment Parameters	Environmental temperature & humidity	Working temperature: 0 ~ + 55 °C , storage temperature: - 25 ~ 70 +°C , humidity: 5 ~ 95% RH, no condensation.					
	Vibration resistance	10~57HZ amplitude 0.075mm, 57HZ 150HZ acceleration 1G, X, Y, Z 10 times in triaxial direction					
	Impact resistance	15G, 11 Ms, X, Y, Z, 6 times in the triaxial direction					
	Insulation impedance	500V DC between AC terminal and GND terminals, 5M Ω or more (all input / output points to ground 500V DC)					
	Using environment	Anti-dust, moisture-proof, corrosion-proof, protection from electric shock and external force impact, etc.					
	Protection Level	The complete machine is subjected to a salt spray test of 48 hours					
	Cooling Type	Natural air Cooling					
Hardware Parameters	Storage	Flash 4G, RAM 512MB					
	COM port	Support 1 isolated communication (RS232/RS485)					
	Ethernet Port	Ethernet port: 1 * 10/ 100 Base-Tx					
	Hardware system reset	Support					
	Switch S0	Single-pole double-throw					
	WIFI	Support					
	4G	/	China 4G	Global 4G	/	China 4G	Global 4G
	SIM	/	1 self-elastic Micro SIM card interface		/	1 self-elastic Micro SIM card interface	
	IO port	8 way optoelectronic isolation digital point input			8 way optoelectronic isolation digital point input		
	Dimension	40mm*95mm*65mm (W*H*D)					
	Shell material	Engineering plastics ABC PC (flame retardant requirements: 94V0 grade, in line with ROHS requirements.					
	RoHS	Yes					



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Haiwell APP



Haiwell Wechat

The parameters of product are subject to changes without prior notice. (Ver 1 - 202207)