Haiwell 海为®

Haiwell Cloud

MQTT Server

No front and rear enclosures
for easy installation and easy modular integration



N Series SmartLink HMI

10 Highlights

- Enable simple connection between HMI, mobile phone, tablet, computer,TV, camera and other HMIs 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 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.
- Use innovative design including HD screen, design without shell and eSIM.
- Enable simple connection between HMI, mobile phone, tablet, computer,TV,camera and other HMIs in local area network.

Model List

Model	TFT Screen	Storage	LAN+COM	USB	Voice	WiFi	Wireless	Hole Size	Dimension W*H*D
N4	4.3" 800*480 HD	4G+512M	1+2	1	Yes			108×70mm	125×78×32mm
N4-G		4G+512M	1+2	1	Yes		China 4G		
N4-W		4G+512M	1+2	1	Yes	Yes			
N7	7" 1024*600 HD	4G+512M	1+2	1	Yes			168×103mm	184×118×24mm
N7-G		4G+512M	1+2	1	Yes		*Built in eSIM		
N7-W		4G+512M	1+2	1	Yes	Yes			
N7-GW		4G+512M	1+2	1	Yes	Yes	*Built in eSIM		
N10	10.1" 1024*600 HD	4G+512M	1+2	1	Yes			238x146mm	248x160x23mm
N10-G		4G+512M	1+2	1	Yes		*Built in eSIM		
N10-W		4G+512M	1+2	1	Yes	Yes			
N10-GW		4G+512M	1+2	1	Yes	Yes	*Built in eSIM		

Products Features

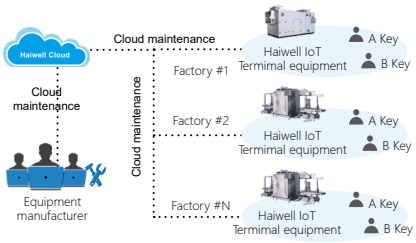
Connection in LAN

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



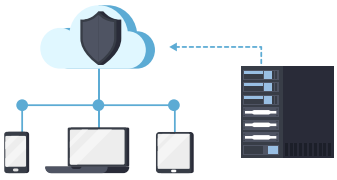
Cloud maintenance

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 suppored IOT platforms. Keep updating...

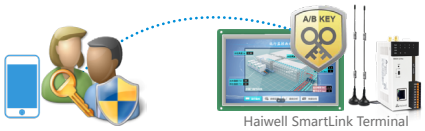
Remote access

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



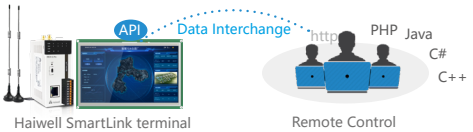
Secure access

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.



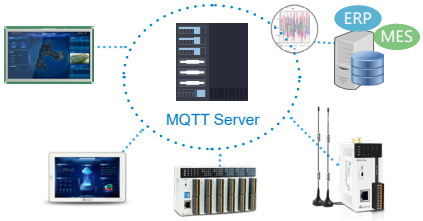
Web API

Users can get the data and control device on their own platform or software by Web API in local area network or over Internet.



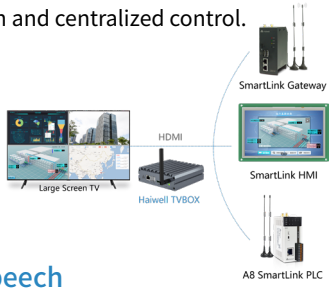
MQTT protoco

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



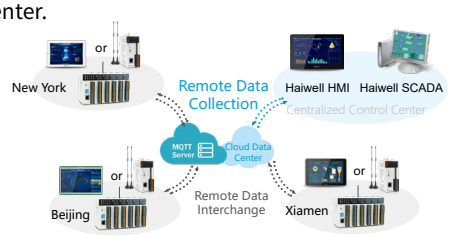
Digital display board

The production data, device state and video surveillance can be viewed on large screen by connecting with TVBOX. It can be appllie to data visualization and centralized control.



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.

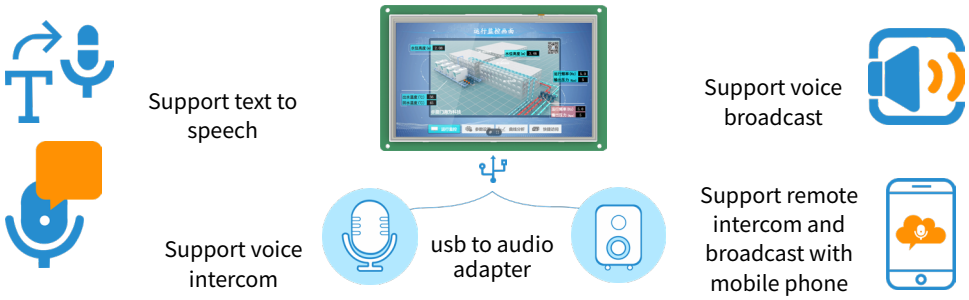


Text to speech

The english text can be converted into voice . Audio files can also be played.

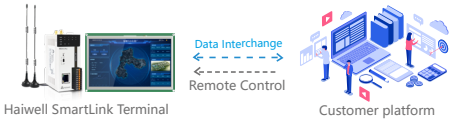
Voice intercom

All models support voice intercom, voice broadcast and remote intercom with APP.



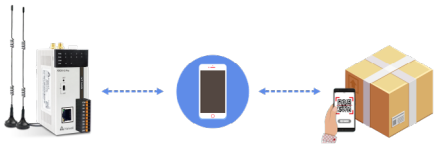
Display integration

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



Mobile scanner

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



Parameter

Parameter		N4"	N7"	N10"
Software	Programming software	Haiwell Cloud SCADA		
Display	Screen size	4.3 〃 TFT	7 〃 TFT	10.1 〃 TFT
	Resolution	800x480 pixels	1024x600 pixels	
	Color	16.7M		
	Brightness	450 cd/m²	250 cd/m²	
	Viewing angle	80'/80'/80'/80'	80'/80'/60'/70'	65'/65'/45'/55'
	Touch panel type	Analog resistive film		
Backlight	Type	LED		
	Life	50,000 hours		
	Auto sleep function	Yes		
Hardware	Flash	4GB		
	RAM	512M		
	Ethernet port	10/100 Base-T*1		
	Serial port	COM1:RS232*1 COM2:RS485*1		
	USB HOST	USB2.0 *1		
	RTC	Yes		
Power	Rated input power	24V DC±20%		
	Power consumption	6W@24V DC	7.5W@24V DC	9W@24V DC
	Power protection	Surge protection and anti-reverse protection		
	Withstand voltage	500VAC		
	Insulation resistance	50MΩ @500VDC or more		
	Vibration resistance	10 - 25Hz: 2G/30 minutes in each of X,Y or Z direction		
Environment	Cooling method	Natural air circulation		
	Storage temperature	-20 ~70℃		
	Operating temperature	-10℃ ~ 60℃		
	Relative humidity	10 ~ 90% RH (non-condensing)		
	Operating environment	Prevention of dust, moisture, corrosion, electric shock and external shock		
Structure	External dimensions (WxHxD)	125x78x32mm	184x118x24mm	248x160x23mm
	Panel cut dimensions (WxH)	108x70mm	168x103mm	238x146mm
	Weight	0.3kg	0.45kg	0.75kg
	Installation	Vacancy fixation		
Function	WiFi	Optional (802.11b/g/n)		
	Wireless	Optional (4G)	Optional (4G eSIM)	

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Haiwell APP

Haiwell Wechat

The parameters of product are subject to changes without prior notice. (Ver I - 202409)