



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



# N Series Intelligent 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 display 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 information in HMI.
- Apply to data visualization or centralized control on large screen by TVBOX.
- Use innovative design including Full Viewing Angle 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	Speaker	RFID	Wireless	Hole Size	Dimension W*H*D
N4	4.3" 800*480 HD Full Viewing Angle Display	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 Full Viewing Angle Display	4G+512M	1+2	1	Yes		Optional	Optional		168×103mm	184×118×24mm
N7-G		4G+512M	1+2	1	Yes		Optional	Optional	China 4G		
N7-W		4G+512M	1+2	1	Yes	Yes	Optional	Optional			
N7-GW		4G+512M	1+2	1	Yes	Yes	Optional	Optional	China 4G		
N10	10.1" 1024*600 Full Viewing Angle Screen	4G+512M	1+2	1	Yes		Optional	Optional		238x146mm	248x160x23mm
N10-G		4G+512M	1+2	1	Yes		Optional	Optional	China 4G		
N10-W		4G+512M	1+2	1	Yes	Yes	Optional	Optional			
N10-GW		4G+512M	1+2	1	Yes	Yes	Optional	Optional	China 4G		

## Products Features



### Connection in LAN

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



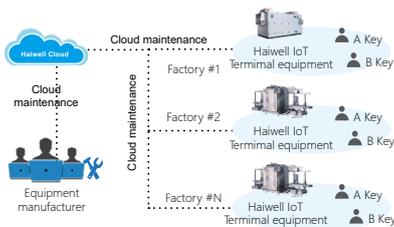
### Remote access

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.



### 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.



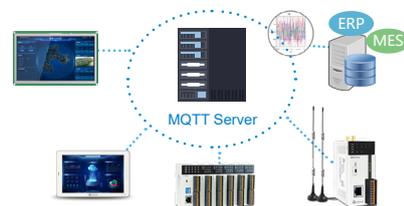
### IoT platform

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



### MQTT protocol

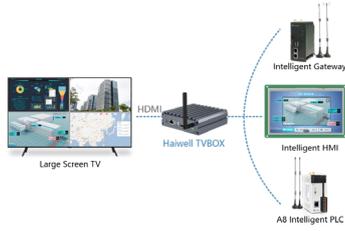
MQTT protocol is supported and applied to the connection with ERP/MES/database.





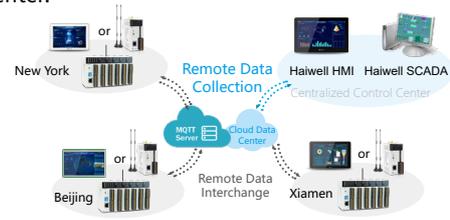
### Digital display board

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



Support text to speech

Support voice intercom



usb to audio adapter

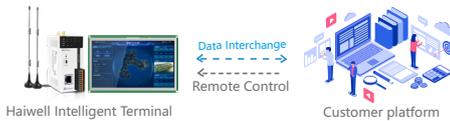
Support voice broadcast

Support remote intercom and broadcast with mobile phone



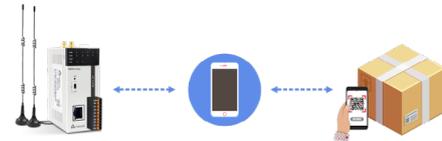
### Display integration

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.



### Mobile scanner

You can turn your mobile phone into a barcode scanner and enter information everywhere. It's more convenient 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	280 cd/m <sup>2</sup>	450 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>
	Viewing angle	80°/80°/80°/80°	85°/85°/85°/85°	
Backlight	Touch panel type	Resistance-type		
	Type	LED		
	Life	50,000 hours		
Hardware	Auto sleep function	Yes		
	Flash	4G		
	RAM	512M		
	Ethernet port	10/100 Base-T*1		
	Serial port	COM1:RS232*1 COM2:RS485*1		
Power	USB HOST	USB2.0 *1		
	RTC	Yes		
	Rated input power	24V DC±20%		
	Power consumption	6W@24V DC	7.5W@24V DC	9W@24V DC
	Power protection	Equipped with surge protection and anti reverse connection protection		
Environment	Withstand voltage	500VAC		
	Insulation resistance	50MΩ @500VDC or more		
	Cooling method	Natural wind cooling		
	Storage temperature	-20°C ~70°C		
	Operating temperature	-10°C ~ 60°C		
Structure	Relative humidity	10% ~ 90% RH (non-condensing)		
	Vibration resistance	10 - 25Hz (X.Y and Z axis 2G/30 minutes )		
	Operating environment	Dustproof,moisture proof,corrosion resistant,and protected from electric shock and external impact environments		
Function	External dimensions (WxHxD)	125x78x32mm	184x118x24mm	248x160x23mm
	Panel cut dimensions (WxH)	108x70mm	168x103mm	238x146mm
	Weight	0.3kg	0.45kg	0.75kg
Function	Installation	Installed by securing through fixed hole positions		
	WiFi	Optional (802.11b/g/n)		
	Wireless	China 4G	Optional (4G)	
	Speaker	External	Optional	
	RFID	No	Optional	



海纳百川  
诚信有为

**XIAMEN HAIWELL TECHNOLOGY CO., LTD.**

Headquarters: 13-14/F, C03 Building, Phase III Software Park,  
Jimei District, Xiamen, Fujian, China  
Factory: 4F, No. 336-2, Anbian Nan Road, Torch High-tech Zone  
(Xiang 'an) Industrial Zone, Xiang 'an District, Xiamen, Fujian,  
China. 361101  
Tel: +86-592-2230312    Hotline: +86-4000-360-362  
Email: [service@haiwell.com](mailto:service@haiwell.com)  
Website: [www.haiwell.com](http://www.haiwell.com)



Haiwell APP



Haiwell Wechat

The parameters of product are subject to changes without prior notice. (Ver 1 - 202601)