SINOVO

MQTT Server

RFID support

Built-in voice, microphone and speaker

A Series SmartLink HMI

11 Highlights

- Enable simple connection betweenHMI, mobile phone, tablet, computer,TV,camera and other HMIs in local areanetwork.
- Enable simple connection betweenHMI, 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, video surveillance, RFID/NFCrecognition 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.
- Improve the positioning accuracy by using BeiDou or GPS.
- Use innovative design including HD screen, narrow bezel and optional features like eSIM, microphone, speaker and RFID reader.

Model List

Model	TFT Screen	Storage	LAN+COM	USB	intelligentize	Voice	RFID	GPS	WIFI	Wireless	Hole Size W×H(mm)	Dimension W×H×D(mm)
A7	7" 1024*600 HD	4G + 512M	1+3	1	speaker	Yes					187x114 Chamfer: (R9mm)	194x121x32
A7-G		4G + 512M	1+3	1	speaker	Yes				*Built in eSIM		
A7-W		4G + 512M	1+3	1	speaker	Yes			Yes			
A7-GP		4G + 512M	1+3	1	speaker	Yes		Yes		*Built in eSIM		
A7-GW		4G + 512M	1+3	1	speaker	Yes			Yes	*Built in eSIM		
A7-E		4G + 512M	1+3	1	speaker	Yes				Global 4G		
A7-EW		4G + 512M	1+3	1	speaker	Yes			Yes	Global 4G		
A7 Pro		4G + 1G	2+3	2	microphone speaker	Yes	Yes					
A7 Pro-G		4G + 1G	2+3	2	microphone speaker	Yes	Yes			*Built in eSIM		
A7 Pro-W		4G + 1G	2+3	2	microphone speaker	Yes	Yes		Yes			
A7 Pro-GP		4G + 1G	2+3	2	microphone speaker	Yes	Yes	Yes		*Built in eSIM		
A7 Pro-GW		4G + 1G	2+3	2	microphone speaker	Yes	Yes		Yes	*Built in eSIM		
A7 Pro-E		4G + 1G	2+3	2	microphone speaker	Yes	Yes			Global 4G		
A10	10.1" 1280*800 HD	4G + 512M	1+3	1	speaker	Yes					254x161 Chamfer: (R7mm)	261x168x33
A10-G		4G + 512M	1+3	1	speaker	Yes				*Built in eSIM		
A10-W		4G + 512M	1+3	1	speaker	Yes			Yes			
A10-GP		4G + 512M	1+3	1	speaker	Yes		Yes		*Built in eSIM		
A10-GW		4G + 512M	1+3	1	speaker	Yes			Yes	*Built in eSIM		
A10-E		4G + 512M	1+3	1	speaker	Yes				Global 4G		
A10-EW		4G + 512M	1+3	1	speaker	Yes			Yes	Global 4G		
A10 Pro		4G + 1G	2+3	2	microphone speaker	Yes	Yes					
A10 Pro-G		4G + 1G	2+3	2	microphone speaker	Yes	Yes			*Built in eSIM		
A10 Pro-W		4G + 1G	2+3	2	microphone speaker	Yes	Yes		Yes			
A10 Pro-GP		4G + 1G	2+3	2	microphone speaker	Yes	Yes	Yes		*Built in eSIM		
A10 Pro-GW		4G + 1G	2+3	2	microphone speaker	Yes	Yes		Yes	*Built in eSIM		
A10 Pro-E		4G + 1G	2+3	2	speaker	Yes	Yes			Global 4G		
A15	15.6" 1920x1080 HD Capacitive touch	4G + 1G	2+3	2	speaker	Yes					383x245 Chamfer: (R8mm)	294x256x43
A15-G		4G + 1G	2+3	2	speaker	Yes				*Built in eSIM		
A15-W		4G + 1G	2+3	2	speaker	Yes			Yes			
A15-GW		4G + 1G	2+3	2	speaker	Yes			Yes	*Built in eSIM		
A15-E		4G + 1G	2+3	2	speaker	Yes				Global 4G		
A15-EW		4G + 1G	2+3	2	speaker	Yes			Yes	Global 4G		

Features

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

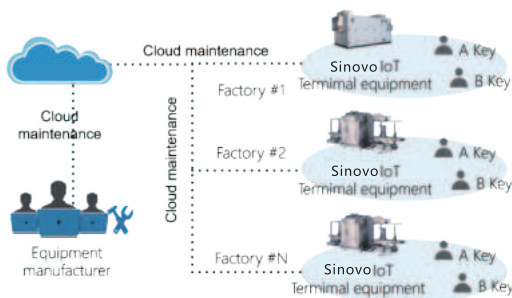### Cloud maintenance
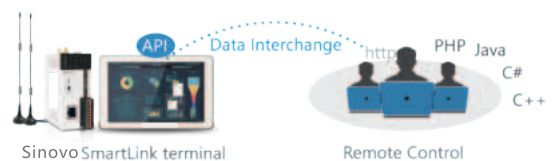It's easier for manufacturers to manage equipments by using remote maintenance function.

Data security
The user data is not stored in Sinovo 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 Sinovo, concurrent users can remotely access HMI 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 HMI.

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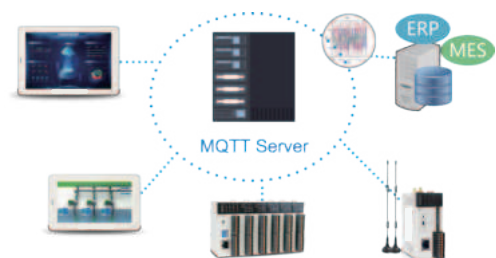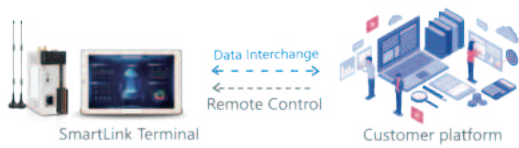MQTT protocol is supported and applied to the connection with ERP/MES/database.

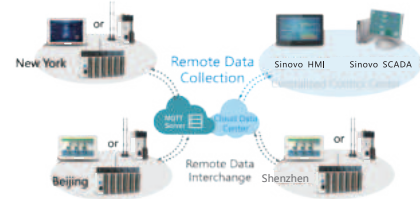## Display integration

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

SmartLink 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.

Text to speech

The english text can be converted into voice through built-in speaker. Audio files can also be played.

Voice intercom

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

Support text to speech

Support voice broadcast

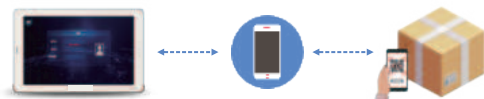Support voice intercom

built-in multimedia hardware

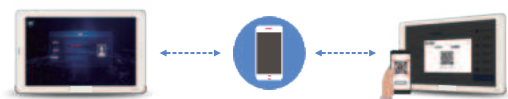Support remote intercom and broadcast with mobile phone

Mobile scanner

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

Mobile authentication

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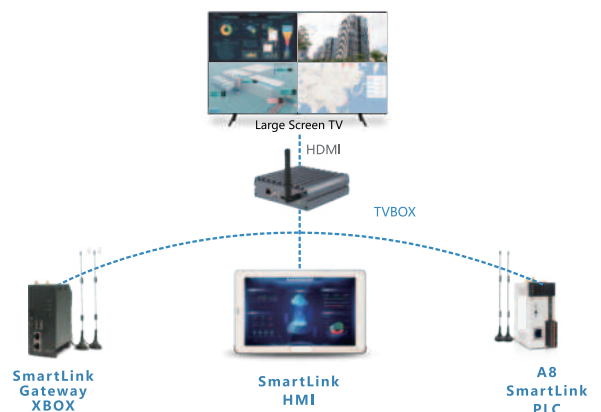

RFID/NFC

HMI supports reading RFID tags and NFC recognition, which can be applied to user login and access control.

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.

Large Screen TV

HDMI

TVBOX

SmartLink Gateway XBOX

SmartLink HMI

A8 SmartLink PLC

Satellite positioning

The positioning accuracy can be improved by using BeiDou or GPS. Users can check the real-timee position of devices.

Specification

Specification		A7	A7 Pro	A10	A10 Pro	A15
Software	Programming software	Sinovo Cloud SCADA				
Display	Screen size	7"TFT	7"TFT	10.1"TFT	10.1"TFT	15.6" TFT
	Resolution	1024x600 pixels		1280x800 pixels		1920x1080 pixels
	Display color	16.7M				262K
	Brightness	450 cd/m²		450 cd/m²		350cd/m²
	Viewing angle	85'/85'/85'/85'		85'/85'/85'/85'		85'/85'/85'/85
	Touch panel type	Analog resistive film				capacitive touch
Backlight	Type	LED				
	Life	50,000 hours				
	Auto sleep function	Yes				
Hardware	Flash	4G				
	RAM	512M	1G	512M	1G	1G
	Ethernet port	10/100 Base-T*1	10/100 Base-T*2	10/100 Base-T*1	10/100 Base-T*2	10/100 Base-T *1 10/100/1000 Base-T*1
	Serial port	COM1:RS232*1 COM2:RS485*1 COM3:RS485*1				COM1:RS232*1/485*1 COM2:RS485*1 COM3:RS232*1
	USB	USB 2.0 *1	USB 2.0 * 2	USB 2.0 *1	USB 2.0 * 2	USB2.0 * 2
	RTC	Yes				
Power	Rated input power	24V Dc±20%				
	Power consumption	10W@24V DC		13W@24V DC		15W@24V DC
	Power protection	Surge protection and anti-reverse protection				
	Withstand voltage	500V AC				
	Insulation resistance	50MΩ @500VDC or more				
	Vibration resistance	10 - 25Hz: 2G/30 minutes in each of X,Y or Z direction				
Enviroment	Cooling method	Natural air circulation				
	Protection grade	Front: Ip65				
	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	Material	ABS and PC (flame-retardant)				
	External dimensions	194x121x32mm		261x168x33mm		394x256x43mm
	Panel cut dimensions	187x114mm (R9mm)		254x161mm (R7mm)		383x245mm (R8mm)
	Weight	0.8kg		1.1kg		2.5kg
	Installation	Panel mounting				
Feature	WiFi	Optional (802.11b/g/n)				
	Wireless	Optional (4G)				
	RFID	No	Yes	No	Yes	No
	GPS	Optional				
	Microphone	External	Built-in	External	Built-in	External
	Speaker	Built-in	Built-in	Built-in	Built-in	Built-in

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The parameters of product are subject to changes without prior notice. (Ver I - 202402)