H070R1W

7 Inch Android HMI

Product specification

（R818Series）

Product brief introduction

 H070R1W Series, for ARM A53An industry of architecture R&D and design Android touch display Smart terminal,Equipped with Android10.0 operating system,It is equipped with a 7-inch full-angle LCD screen and a capacitor touch screen to form a powerful human-computer interaction system. The product has a light and thin appearance, flat appearance, high overall fit, and convenient installation, which can be used in indoor and semi-outdoor environments.

Product advantages

☑ Android 10.0 operating system, compatible with 99% industry application software, supports independent design APK Program installation

☑ Support WIFI/4th generation/Ethernet and other networking methods can realize remote data transmission, upgrade and update

☑ Support multi-channel RS232, RS485, CAN and other different serial port communication to realize the exchange of communication with external devices.

☑ Hold out 1080P Language call, 2 million dual cameras

☑ Support voice playback and video playback

☑ The industrial-grade capacitor touch scheme is more resistant to dry and widely used in various complex industrial scenarios.

☑ Industrial embedded installation design, suitable for a variety of industries

☑ Through CE/ROHS and other testing and certification, the product is stable and reliable.

Industry Areas of application

Industrial control equipment	Power equipment	New energy Charge and exchange	Medical Instrument	Industrial handheld equipment
Security equipment	Vending equipment	Smart home	Vending equipment terminal	Access control system
Instrumentation	Robot	3D Printing		

Product illustration

Product diagram

Product parameters

| Screen and size parameters	Data	Explain
Screen size type	7 inches	Screen ratio 16:9
Resolution	1024*600 pixels	260,000 true color display
Color	260,000 colors	-
Display size (A.A.)	154.2 (Wide)*85.9 (H) mm	-
The size of the whole machine	190.5(Wide)*105 .2(High) *24(Thick) mm	Touch screen to the highest RJ45 Total height of network port
Backlight brightness	300 nit	The brightness can be adjusted.
Perspective (CR>10)	Full perspective	Panel type: IPS
Backlight life (hours)	30000Hrs	LED backlight

Motherboard core parameters	Data	Explain
CPU processor	Allwinner R818	4 cores A53 1.6GHz
Operating system	V10.0	Android
Running memory	1GB	2*512MB, DDR4
EMMC	8GB	EMMC5.1
Touch form	5-point capacitor and single-point optional	-
TP Surface hardness	7	Mohs hardness
TP Light transmittance	> 85□	-
Operating voltage and current	12V(Typical value)700mA	The smallest 8V, the largest 24V, recommended 12V 1A The above DC stabilized power supply
Power interface	DC044A;	

Interface parameters	Data	Explain
	Default No.Serial port all the way:RS485	Serial port 2, port number:ttyS2
	Default No.Serial port: RS232	Serial port0, port number:ttyS0
	Default second serial port RS232	Serial port3, port number:ttyS3
	Maximum baud rate 115200	
Universal serial bus	Route 2 HOST, Route 1 OTG	If the USB camera is connected, it can support 200W d silk
Audio frequency	1-channel mono MIC/bi channel HPO(3.5mmHeadphones), two mono channels SPK（4Rx3W）	
TF Calorie	1 road	The biggest 64G
Ethernet	1 road	10/100M Adaptive network interface
WIFI	1 road	IEEE 802.11Bb/G/n, 2.4G; *optional*
Blue tooth	1 road	V4.0
4th generation Module	All Net com	*Optional*
CAN	1The road, CANH, CANL	*Optional*

Environmental parameters

Type	Project	Specification and parameters
Working temperature test parameters	Storage temperature	-30 ~ 80°C
	Working temperature	-20 ~ 70°C
	Relative humidity	10~90% RH
Reliability parameters	EMC	Class B,EN55032
	ESD	Level 3

Hardware diagram Dissect
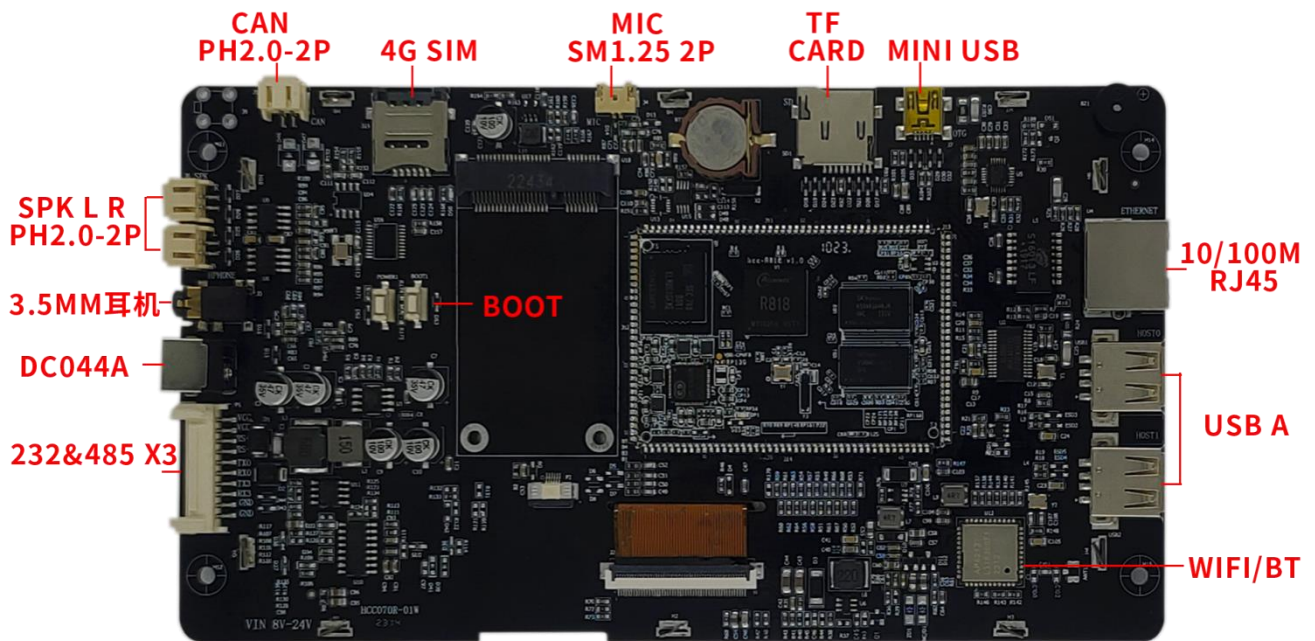
Interface Resource Diagram

Hardware Interface Description

Power supply and serial communication instructions

Terminal	Terminal screen	Definition	Explain	Remarks
DC005	DCIN	-	The smallest 8V, the largest 24V, typical 12V 700mA	
PH2.0-10P	VIN	VIN	12-24V Input	
	VIN	VIN	12-24V Input	
	RS485+	TX2	Software identification port:Ttys2	Default serial port 2RS485 The level output;
	RS485-	RX2		
	RS232-TX0	TX0	Software identification port:Ttys0	The default serial port 0 outputs at RS232 level;RS485The
	RS232-RX0	RX0		
	RS232-TX3	TX3	Software identification port:Ttys3	The default serial port 3 outputs at the RS232 level; it can also be changed to TTL The level
	RS232-RX3	RX3		
	GND	GND	External export12VEarth	
	GND	GND	External export12VEarth	
CAN terminal	CANH	CAN high		-
	CANL	CAN low		-
	GND	GND		

The audio part

Terminal	Terminal screen printing	Definition	Explain	Remarks
Horn left	Large size	The left horn is positive.	4 euros 3W Trumpet	PH2.0MM-2P Terminal
	Large size	The left horn is positive.		
Right of the horn	R	Right-handed horn	4 euros 3W Trumpet	PH2.0MM-2P Terminal
	R	Right-handed horn		

4th generation SIM card holder

Terminal	Terminal screen printing	Definition	Explain	Remarks
4th generation Card holder	-	Standard large card	Flip-over type	Can be supported

Burning key

| Terminal	Terminal screen printing	Definition	Explain
Burning key	BOOT	-	After installing the Phoenix tool on the computer and installing the driver with the 360 mobile phone assistant; press and hold the BOOT button, connect the power supply to power, and release the button after 3 seconds; plug in the MINI USB burning cable, you can burn the firmware;

MIC interface

Terminal	Terminal screen printing	Definition	Explain	Remarks
Microphone interface	Microphone	-	Capacitor electret Mi Head	SH1.25MM-2PTerminal

USB port

Terminal	Terminal screen printing	Definition	Explain	Remarks
Double-layer USB port	Universal serial bus	USB -A	USB 2.0 Port	-
		USB -A	USB 2.0 Port	-

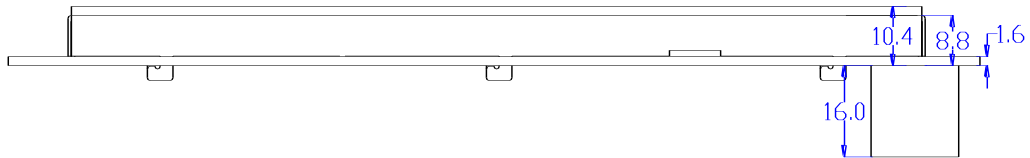## Product size diagram

Positive view
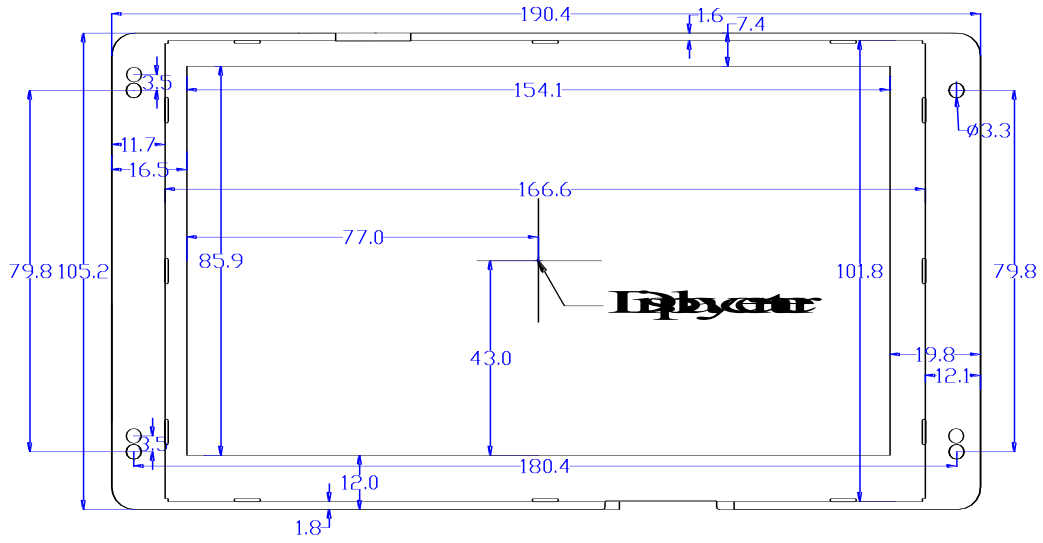
Back view
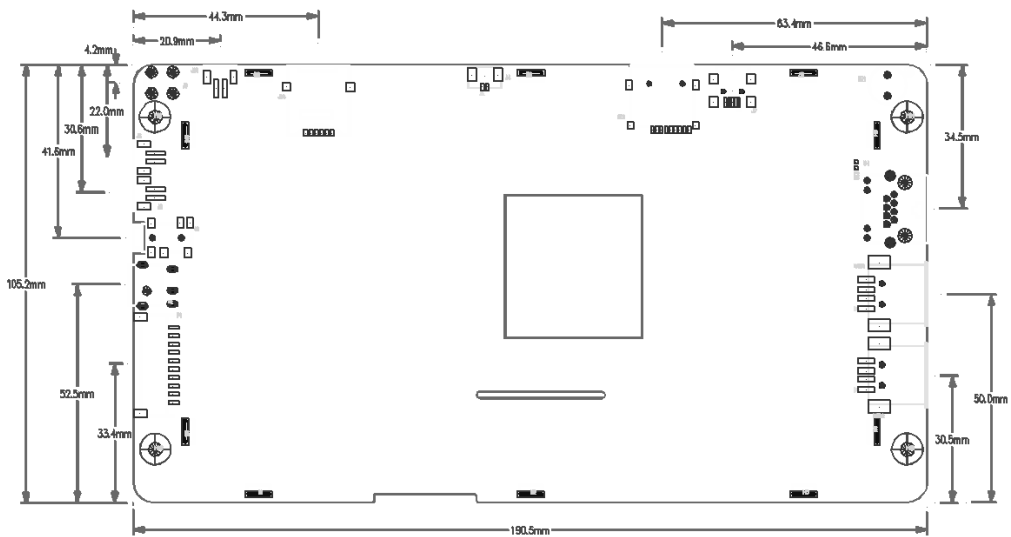
long side view

Technical support

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