



秋田微电子
AVDISPLAY

SPECIFICATION

MODULE NO. : EPC-R388070CS-A0-S

CUSTOMER NO. :

Rev No. : O

AVD	PREPARED BY	CHECKED BY	APPROVED BY
SIGNATURE		陈志超	
DATE	2025.06.18	2025.06.18	2025.06.18

CUSTOMER APPROVAL	SIGNATURE	DATE

Notes:

- 1.Please contact AVD before assigning your product based on this module specification.
- 2.To improve the quality of product,this product specification is subject to change without any notice.

REVISION RECORD

Rev No.	Rev date	Contents	Remarks
O	2025.06.18	First Release	Preliminary

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1. MODULE DESCRIPTION

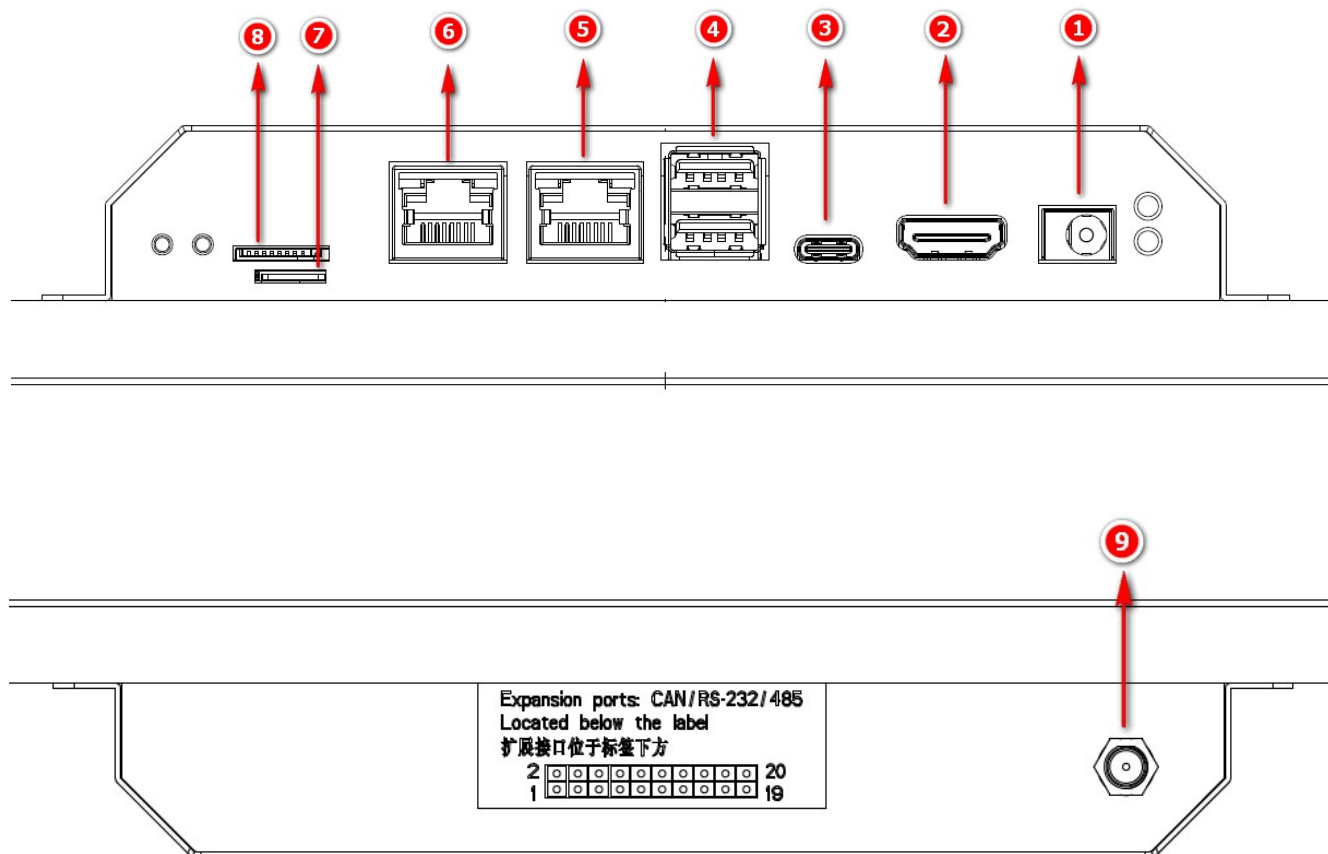
EPC-R388070CS-A0-S is an embedded industrial PC. It features a 7-inch 10-point PCAP touchscreen with high brightness display and runs Android /Linux operating system. It offers rich interfaces for connection of different peripherals and displays. It is very suitable to be applied in kiosks, gaming and amusement systems, retail self-service, and industrial automation environments. The VESA holes also allow users to flush mount the product into any suitable openings for industrial control.



2.GENERAL INFORMATION

Product Introduce	
Operating System	Linux/Android
CPU	RK3568 ARM quad-core ARM Cortex-A55, Highest frequency is 2.0GHz, Arm Mali-G52 GPU is embedded with High-performance 2D acceleration hardware, 4K H.265 and other decoding methods
RAM	2GB LPDDR4
Flash	32GB EMMC
TYPE-C USB	OTG
Display interface	HDMI*1 Support 1080P@120Hz OR 4K@60Hz
Ethernet	LAN*2
I/O interface	WIFI, BT, SIM card (nano) , TF card, USB TYPE-A*2
Power Supply	DC in 12V
Power Consumption	9W(Static desktop with default brightness)
System upgrade	Support local USB upgrade
System Language	Multilingualism
Mechanical	210.40*140.40*37.00 mm
Weight	852g(Typ.)
DISPLAY DESCRIPTION	
Size	7 inch
LCD type	IPS/Normally black
Viewing Direction	Free
Resolution	1024*600 Pixels
Pixel Pitch	0.1506*0.1432mm
Active Area	154.21*85.92 mm
Surface Luminance	1000 cd/² m (Typ.)
LED Life-time	30000H (Min.)
TOUCH DESCRIPTION	
Touch Type	CTP
Touch point number	Support multi-touch (up to 10 touch points)
Bonding Type	AIR bonding
Cover lens thickness	1.1mm
Surface hardness	≥6H
Surface treatment	N/A

3.INTERFACE DESCRIPTION

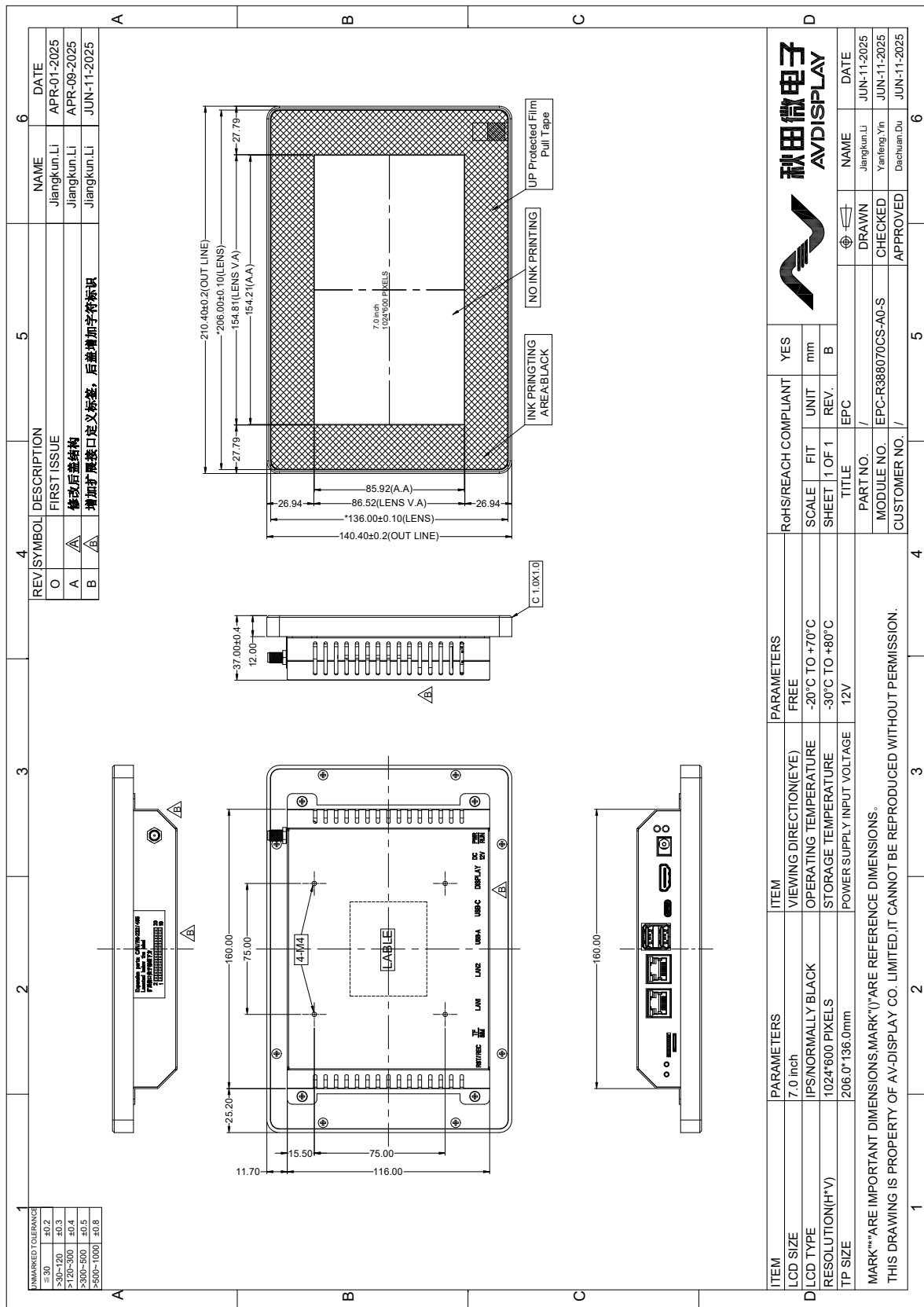


No.	Item	Symbol
1	DC	Power DC 12V
2	HDMI	HDMI1.4
3	USB*1	TYPE-C OTG*1
4	USB*2	USB TYPE-A*2
5、 6	LAN	LAN*2 10/100/1000M
7	SIM CARD	4G LTE
8	TF CARD	TF card slot
9	Antenna	WIFI Antenna interface

Expansion IO Port:

Expansion IO Port	Pin No.	Symbol
	1	CAN H0
	2	CAN H1
	3	CAN L0
	4	CAN L1
	5	VDD_CAN (3.3V)
	6	GND
	7	RS-232 TX0
	8	RS-232 TX1
	9	RS-232 RX0
	10	RS232 RX1
	11	VDD_RS-232 (3.3V)
	12	GND
	13	B0
	14	B1
	15	A0
	16	A1
	17	VDD_RS-485 (3.3V)
	18	GND
	19	VCC_5V
	20	GND

4. MOUDLE EXTERNAL DIMENSIONS



5.ENVIRONMENTAL CONDITIONS

Item	Symbol	Min.	Max.	Unit
Operation Temperature	Top	-20	+70	°C
Storage Temperature	Tst	-30	+80	°C
Humidity (At 60° C)	RH	-	90%	%RH

6.REMARK:

- Avoid any inappropriate external force or strong vibration in the assembly process.
- High temperature, high humidity or rapid temperature changes may affect performance. Store and use the product in an appropriate environment.
- Avoid dust, oil mist, acid, alkali and chloride damage to the product.
- Wear wrist straps, antistatic gloves and clothes during assembly to prevent electrostatic discharge (ESD).
- When assembling, use ionic fan to prevent electrostatic discharge (ESD).
- Turn off the power when connecting or disconnecting the circuit.
- Ensure that the housing is connected to the ground (PE) in the operating environment.