



ORIENT DISPLAY
MAKE THINGS POSSIBLE

**SPECIFICATION
FOR
EPC**

**MODULE NO: APV1280800A0-10.1CS-R3881
REVISION NO: A**

Customer's Approval:

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	SIGNATURE	DATE
PREPARED BY (RD ENGINEER)		
CHECKED BY		
APPROVED BY		

REVISION RECORD

[illegible]

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1.MODULE DESCRIPTION

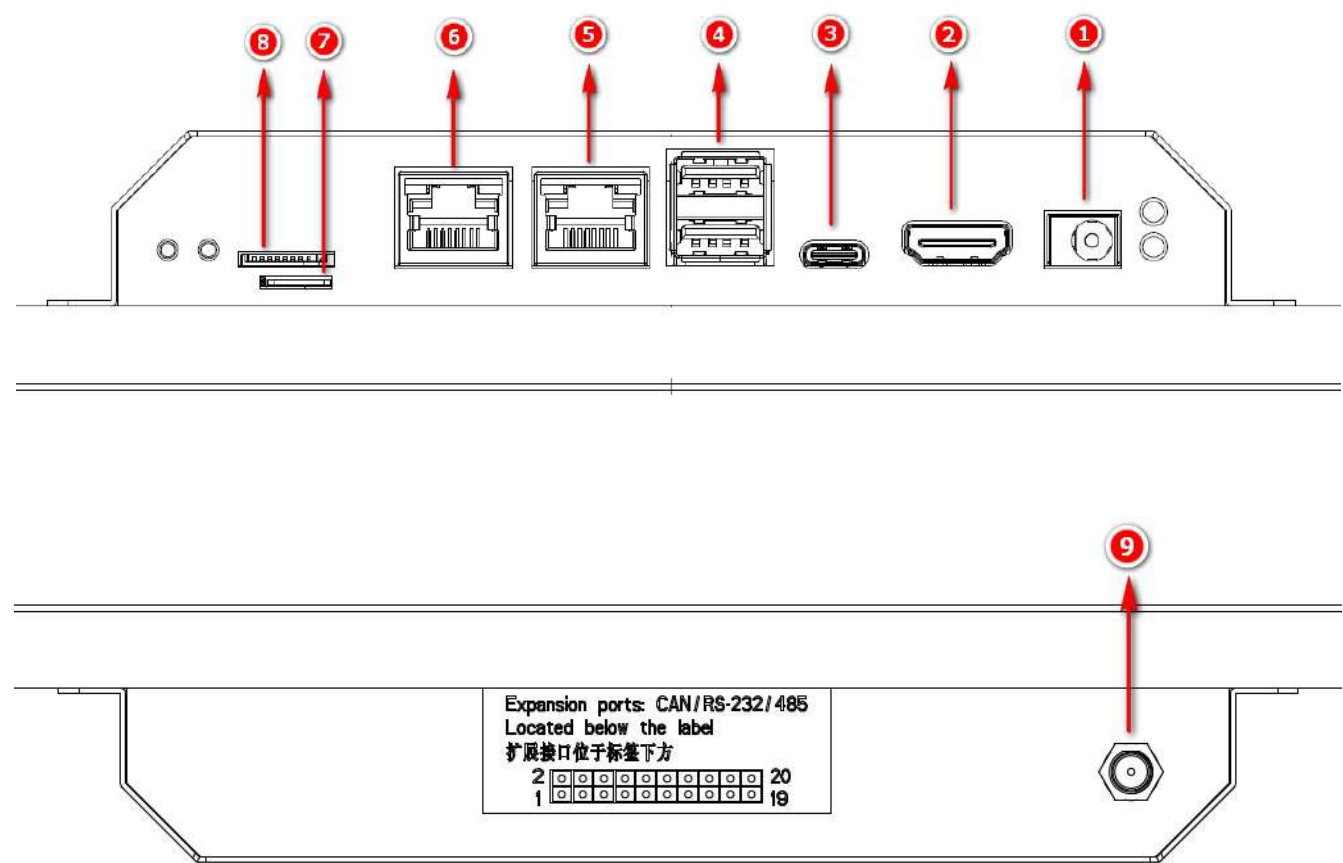
APV1280800A0-10.1CS-R3881 is an embedded industrial PC.It features a 10.1-inch 10-point PCAP touchscreen with high brightness display and runs Android /Linux operating system. It offers rich interfaces for connection of different peripherals and displays. It is very suitable to be applied kiosks, gaming 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	9.6W(Static desktop with default brightness)
System upgrade	Support local USB upgrade
System Language	Multilingualism
Mechanical	260.4*177.4*37.00 mm
Weight	1211g(Typ.)
DISPLAY DESCRIPTION	
Size	10.1 inch
LCD type	IPS/Normally black
Viewing Direction	Free
Resolution	1280*800 Pixels
Pixel Pitch	0.1695*0.1695mm
Active Area	216.96*135.60 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

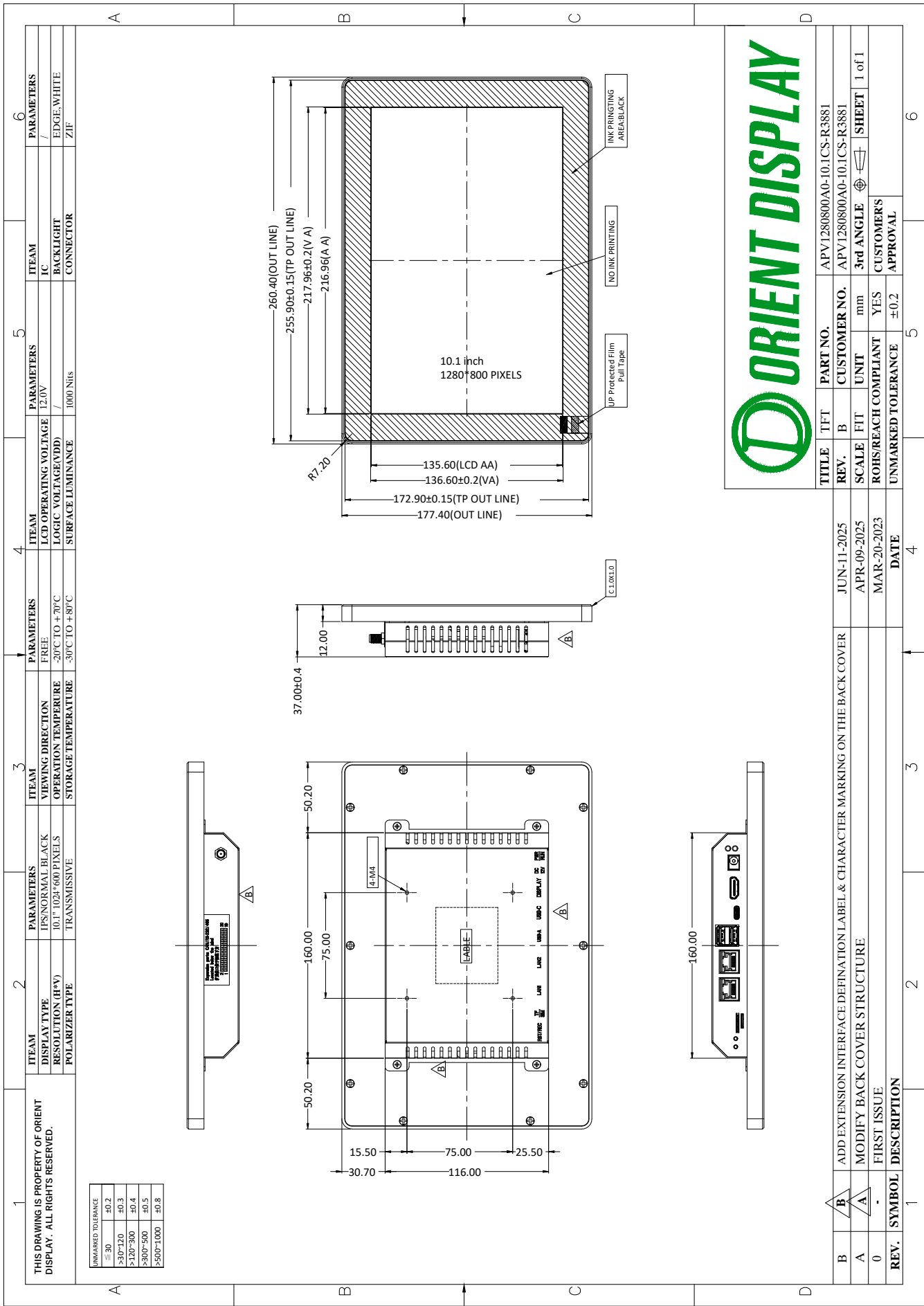


No.	Item	Symbol
1	DC	Power DC 12V
2	HDMI	HDMI1.4
3	USB*1	TYPE-C OTG*1
4	USB*2	USB TYPE-A*2
5、 6	LAN	LAN*2 10/100/1000M
7	SIM CARD	4G LTE
8	TF CARD	TF card slot
9	Antenna	WIFI Antenna interface

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.