

APOLLO 7 user guide

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1. Model Appearances



Front and back view of APOLLO 7inch

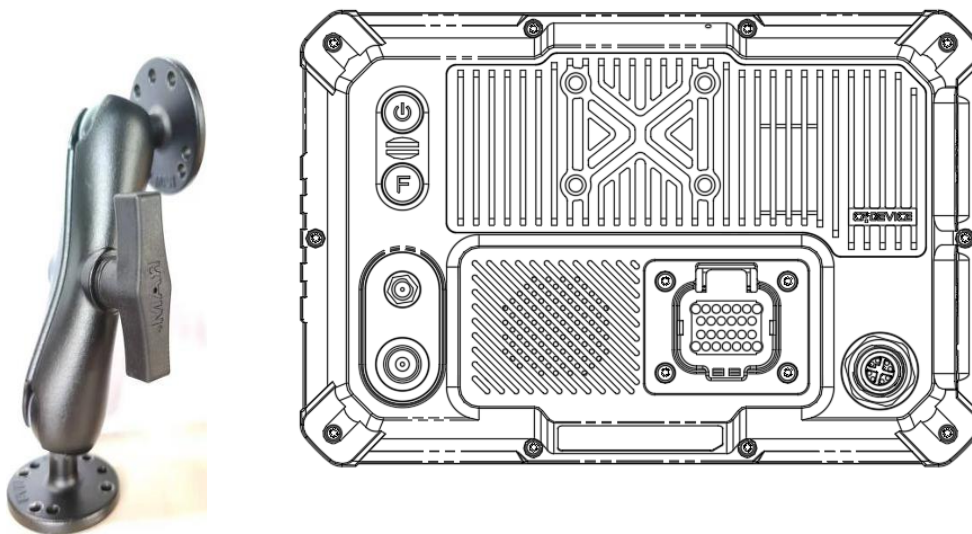
2. Packages & AccessoriesPlease note that when you receive our product, you will be packaged as shown in the picture. In addition to tablets, 4G and WIFI antennas come standard. All accessories, such as high-precision antennas, connecting cables, and mounting brackets, are optional and must be purchased separately.



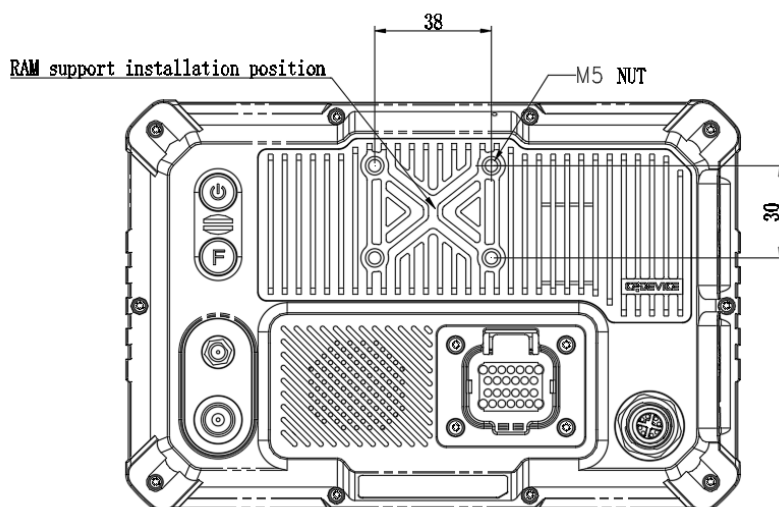
Individual Packaging

3. Installation Method

There are standard RAM bracket installation holes in the bottom shell of the Apollo2 series products. RAM-101U is the recommended RAM model, and the RAM bracket is installed as follows:

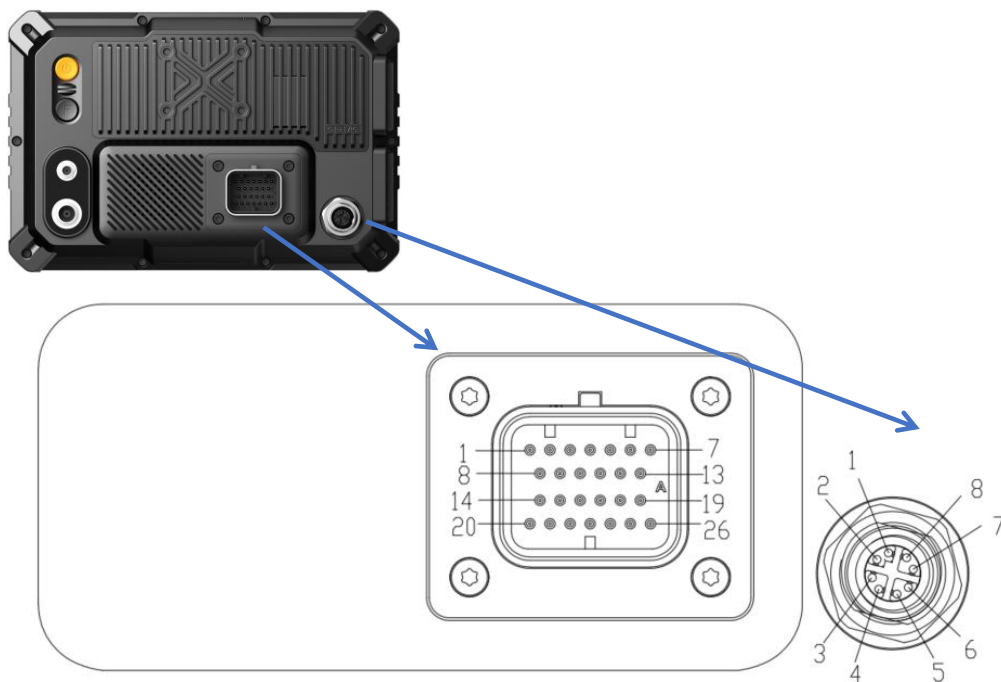


If you wish to select or customize the bracket on your own, please refer to the following installation dimension diagram:



Installation Dimensions

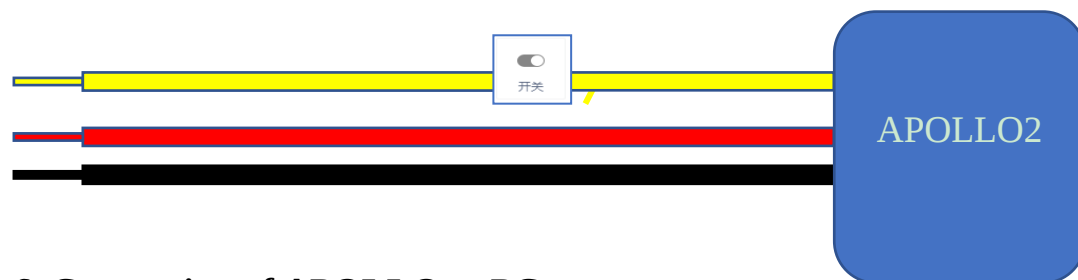
4. Definitions of Connector Interface



安费诺-26P	PIN 脚定义	安费诺-26P	PIN 脚定义
1	CAN1_H	14	B-
2	CAN1_L	15	ACC
3	CAN3-H_FD	16	ADC_IN1
4	CAN3-L_FD	17	ADC_IN2
5	CAN2_H	18	RS232_TX/RS485_A
6	CAN2_L	19	RS232_RX/RS485_B
7	OUTPUT1	20	GND
8	GND	21	AHD_PWR
9	RS232_A_TX	22	AHD1
10	RS232_A_RX	23	AHD2
11	RS232_B_TX	24	AHD3/INPUT1
12	RS232_B_RX	25	AHD4/INPUT2
13	B+	26	OUTPUT2
8PIN 航空头	PIN 脚定义	8PIN 航空头	PIN 脚定义
1	PHY_MDI_0+	5	PHY_MDI_3+
2	PHY_MDI_0-	6	PHY_MDI_3-
3	PHY_MDI_1+	7	PHY_MDI_2-
4	PHY_MDI_1-	8	PHY_MDI_2+

5. Power On Method

All CP products are powered on and start up in the same manner. For taking power, three signal lines are used: B+, B-, and ACC. During startup, connect B+ and ACC to the positive stage of the power supply, and B- to the negative stage. There is a wide-voltage input on the tablet of 7-36V, and a power supply of at least 2A is recommended. Following is a diagram of the recommended power supply. Using the above method of taking power is beneficial in controlling the standby current of the entire machine, reducing the risk of data loss caused by sudden power failure of the tablet, and reducing the risk of the machine being burned out due to poor contact of the physical switch during booting.



6. Connection of APOLLO to PC

The APOLLO series support USB3.0 and USB2.0, thus a USB2.0/3.0 cable will be required to connect the PC and tablet. The USB3.0/2.0 male-to-male debugging cable is recommended.



[illegible]

8. Product Specs

(Size: L: 3.0cm x W: 4.0cm)

System	CPU Quad-Core 64 Bit Cortex-A55, 2.0GHz CPU ARM G52 2EE, Support OpenGL ES1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1, High-Performance 2D Acceleration Hardware 1 TOPS (NPU Supports 0.8 TOPS) Support Android 11.0 Support Linux 5.10, Qt 5.15.7 Support 2G RAM LPDDR4, Up to 8G Support 16G ROM EMMC, Up to 256G	Display	7"/12.1" 5-Point Capacitive Touch Screen Above 750 Nits Resolution: 7" 1024*600P/12.1" 1280*800P Anti-Glare Display under Strong Sunlight
Communication & Sensor	MIC *1 Built-in Speaker *1 External Speakers USB3.0 Interface *1 Gigabit Ethernet *1 G-Sensor *1 LTE 4G/5G Communication Module WiFi 802.11b/g/n, 2.4G Bluetooth 4.2 MXT9068 & UM980 & P2DE	Power	7~36V DC Input ACC Ignition Detection Power Supply Voltage Detection Under and Over Voltage Protection Reverse Voltage Protection
Rugged Feature	Protection Level: IP66 Vibration: MIL-STD-810 Road Vehicle Standard: ISO16750 Operation Temperature: -20°C ~ +70°C, Humidity: 0% ~ 90%RH; Storage Temperature: -30°C ~ +85°C, Humidity: 30% ~ 95%RH; Salt spray: 48 Hours of Salt Spray Test	I/O Interface	CAN *3 (CAN *2, CAN FD *1) Up to RS232 *3 RS485 *1 ADC_IN Detection *2, Max. INPUT 12V DC_OUTPUT 12V *2 IO_INPUT *2 Up to AHD Camera *4
Button	2 Buttons: Turning On/Off, Firmware Management, Function Customization	Connector	26PIN Connector *1 M12 X-Code Aviation Plug *1 SMA Female Connector *1 TNC Female Connector *1
		Light Bar	LED Light Bar, LED Lights *16 (12.1" Optional)
		Mechanical Spec	7" : 200*134*32.52mm, 0.685kg 12.1" : 317.8*219.6*34.5mm, 1.75kg
		Installation	Easy to Install with Vehicle RAM Mount on the Console or Any Other Surface of Farming Machines and Engineering Machines, etc.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 25cm between the radiator and your body.