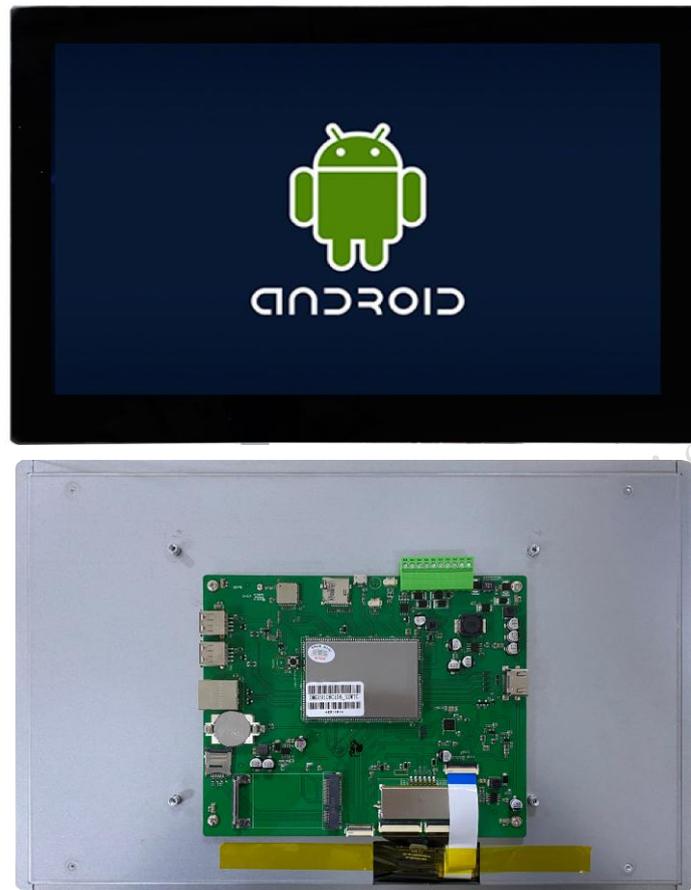


DMG19108C156_32WTC



● 系统硬件 System Hardware

参数 Properties	数据 Parameters
主板级别 Motherboard Level	商业级 Commercial-grade
CPU	RK3566, 四核 ARM Cortex-A55 1.8GHz 处理器 RK3566, Quad-core ARM Cortex-A55 1.8GHz Processor
操作系统 OS	Android 11
RAM	2Gbytes LPDDR4
存储器 Storage	8Gbytes eMMC

● 显示性能参数 Display Parameters

参数 Properties	数据 Parameters	说明 Description
尺寸 Size	15.6 inch	-
有效显示区域 Active Area (AA)	343.2mm (W)×192.6mm (H)	-
可视区域 Viewing Area (VA)	342.2mm (W)×191.6mm (H)	-
分辨率 Resolution	1920×1080	-
背光寿命 Backlight Service Life	>20000 Hrs	背光寿命: 指背光灯珠在测试条件下持续工作至亮度衰减为初始值 50%的时间 Backlight service life refers to the period the LED backlight operates under test conditions until brightness decreases to 50% of the initial level
亮度 Brightness	200nit	100 级亮度调节 (当亮度调节至最高亮度的 1%~30% 时, 可能出现闪烁现象, 不建议在此范围使用) 100-level brightness adjustment (Flickering may occur at 1%-30% of max brightness; not recommended for use in this range)
注: 长时间显示固定画面可能导致残影现象, 建议设置动态屏保进行规避。 Note: Use dynamic screen saver to prevent afterimages from prolonged fixed page display.		

● 触摸参数 Touch Parameter

参数 Properties	数据 Parameters
触摸屏类型 Touch Type	电容触摸屏 Capacitive touch panel

● 电源 Power Supply

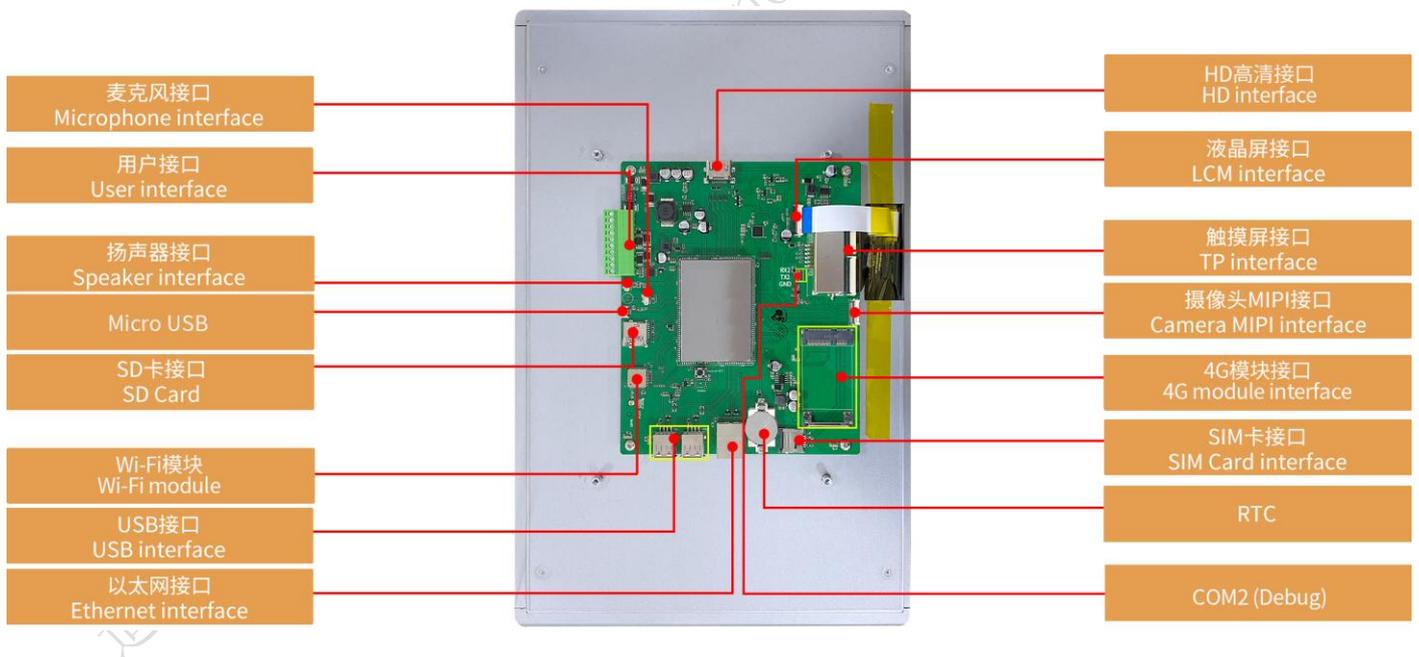
参数 Properties	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
工作电压 Power Voltage	9.0	12.0	36.0	V
推荐工作电源: 12V 1A 的直流稳压电源。 Recommended power supply: 12V 1A DC.				

● 工作环境和可靠性参数 Environment & Reliability Test

参数 Properties	测试条件 Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
工作温度 Working Temperature	12V 电压下, 湿度 60% 60%RH at 12V voltage	-20	25	65	°C
储存温度 Storage Temperature	-	-20	25	65	°C
工作湿度 Working Humidity	25°C	10%	60%	90%	RH
三防漆 Conformal Coating	有 Y				
ESD	空气放电 ±8kV, 接触放电 ±6kV Air: ±8kV, Contact: ±6kV				
如在高于 65 摄氏度温度下使用需要额外增加散热措施。 Additional cooling required for operation above 65°C.					

● 外设接口 Peripheral and Interfaces

参数 Properties	说明 Description
User Interface	10Pin_3.81mm 卧式插座*1 10Pin_3.81mm Horizontal socket*1
COM	RS232*2 (COM5 & COM9), RS485*1 (COM8), TTL*1 (COM0), TTL*1 (COM2, debug)
Ethernet	10/100Mbps
USB	USB 2.0*2 (HOST), Micro USB*1 (OTG)
SD Card	最大 64G Max 64G
Speaker	2Pin_1.25mm interface*1
Microphone	2Pin_1.25mm interface*1
Camera	USB*1/MIPI*1 (前后置可选) USB*1/MIPI*1 (front or rear optional)
Wi-Fi	IEEE 802.11b/g/n, 2.4 GHz, Wi-Fi 4
蓝牙版本 Bluetooth Version	BT4.2
RTC	精度 ±20ppm @25°C Accuracy: ±20ppm @25°C
HD Interface	Output only
4G 模块接口 4G module	出厂未配置 4G 模块, 可定制添加 Factory not configured, customizable to add

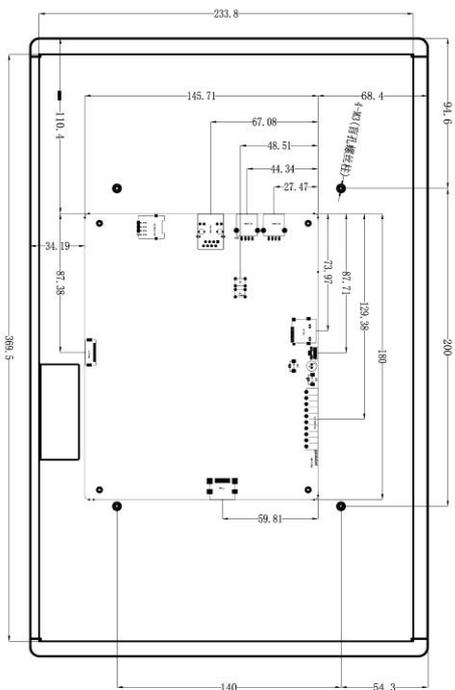
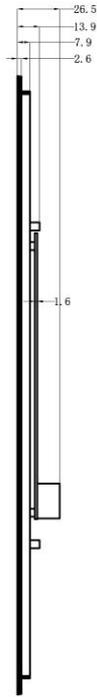
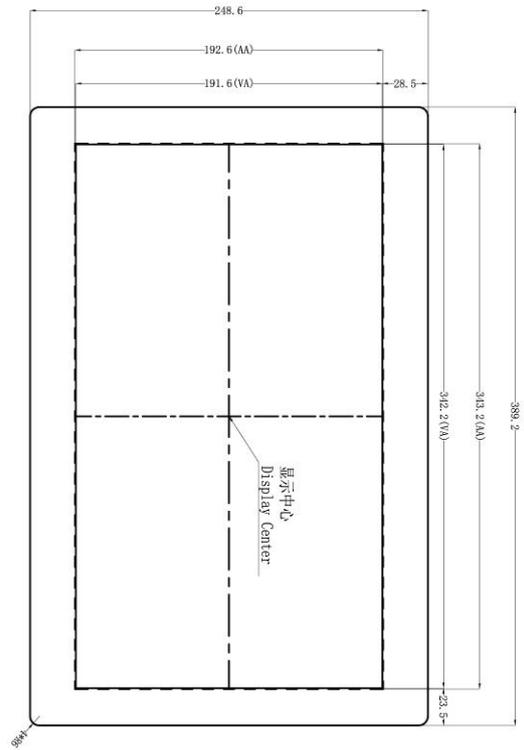


● 开发平台 Development Platform

开发方式 Development	
Android	Java, Kotlin, C++

● 包装和物理尺寸 Packing Capacity & Dimension

尺寸 Dimension				
外形尺寸 Dimension	389.2(W)×248.6(H)×26.5(T)mm			
净重量 Net Weight	-			
包装标准 Packing Capacity				
包装箱型号 Model	包装箱尺寸 Size	层数(层) Layer	数量/层(片) Quantity/Layer	总数量(片) Quantity (Pcs)
1号箱 Carton1:	220mm(L)×160mm(W)×47mm	-	-	-
2号箱 Carton2:	250mm(L)×200mm(W)×80mm	-	-	-
3号箱 Carton3:	320mm(L)×270mm(W)×80mm	-	-	-
4号箱 Carton4:	450mm(L)×350mm(W)×300mm	-	-	-
5号箱 Carton5:	600mm(L)×450mm(W)×300mm	1	5	5



定义Definition	序号Pin#	类型IO	说明Description
VIN	1	P	电源输入 Power input
GND	2	P	公共地 GND
TX0	3	0	串口0输出 DOUT
RX0	4	I	串口0输入 DIN
TX9	5	0	串口9输出 DOUT
RX9	6	I	串口9输入 DIN
TX5	7	0	串口5输出 DOUT
RX5	8	I	串口5输入 DIN
485A	9	A	RS485+
485B	10	B	RS485-

1. 尺寸定位基准为定位孔
Location hole is used as position reference.
 2. 未标注公差为 $\pm 0.3\text{mm}$
Unmarked Tolerance is $\pm 0.3\text{mm}$
- 注: 虚线标注为有效显示区域
Active area is marked in Dash lines

型号 Model	DMG19108C156_32WTC				
图例 Drawing	A 4	绘制 Drawn	G, Y	日期 Date	2026.01.22
比例 Scale	1:1	审核 Review		日期 Date	
单位 Unit	MM	批准 Approval		日期 Date	
迪文科技 DWIN Technology					

● **修订记录 Revision Records**

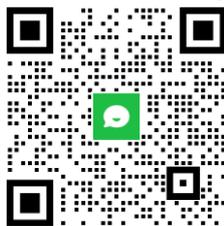
版本号 Rev.	日期 Revise Date	描述 Content	编辑人 Editor
00	2023-03-06	首次发布 First edition	郑运佳
01	2023-08-07	修改 Wi-Fi 模块信息 Modify the Wi-Fi module information	陈艳
02	2023-11-13	开放摄像头 MIPI 接口 Camera MIPI interface was available	陈艳
03	2024-01-23	修改电压范围和电流值 Modify voltage range and current	陈艳
04	2024-08-30	更新供电电压 Modify Power Voltage	赵方维
05	2024-10-24	增加操作系统与开发方式的描述 Add description of OS and development method	陈艳
06	2025-03-05	新增蓝牙描述 Add the description of Bluetooth	陈艳
07	2025-03-28	更新温度范围 Update the rang of temperature	陈艳
08	2025-05-15	更新 Wi-Fi 模块描述 Update the description of Wi-Fi module	陈艳
09	2026-01-22	更新尺寸图 Updated dimensional drawings	陈艳

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