

# DMG10768T150\_32WTC



● 系统硬件 System Hardware

参数 Properties	数据 Parameters
主板级别 Motherboard Level	工业级 Industrial-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	15.0 inch	-
显示屏类型 LCD Type	IPS TFT 液晶屏 IPS, TFT LCD	-
视角 Viewing Angle	85°/85°/85°/85°	视角宽, 对比度高、色彩还原好 Wide viewing angle, high contrast, and good color reproduction
有效显示区域 Active Area (AA)	304.13mm(W)×228.10mm (H)	-
可视区域 Viewing Area (VA)	305.50mm(W)×229.50mm (H)	-
分辨率 Resolution	1024×768	-
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	300nit	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	12.0	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.

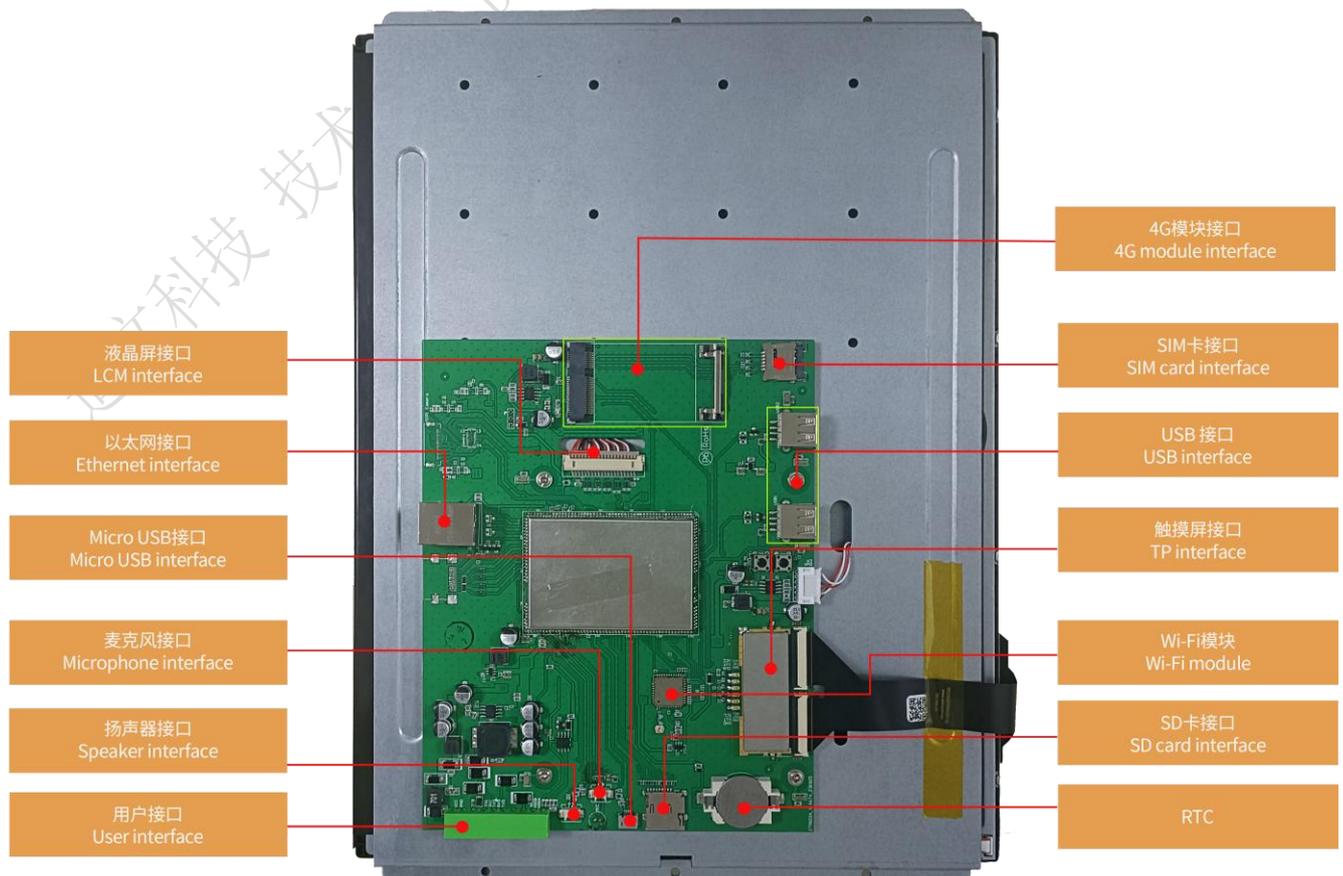
● 工作环境和可靠性参数 Environment & Reliability Test

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	-	-30	25	80	°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
EFT	群脉冲干扰±2KV Group pulse interference ±2KV
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 10Pin_3.81mm horizontal socket
COM	RS232*2 (COM5 & COM9), RS485*1, TTL*1 (COM0)
Wi-Fi	IEEE 802.11b/g/n, 2.4GHz, Wi-Fi 4
蓝牙版本 Bluetooth Version	BT4.2
USB	USB 2.0*2 (HOST), Micro USB*1 (OTG)
Speaker	2Pin_1.25mm interface *1
Microphone	2Pin_1.25mm interface *1
摄像头接口 Camera Interface	USB 2.0 接口 USB 2.0 interface
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
SD 卡 SD card	最大 64G Max. 64G
RTC	精度: ±20ppm @25°C Accuracy: ±20ppm @25°C
以太网 Ethernet	10/100Mbps

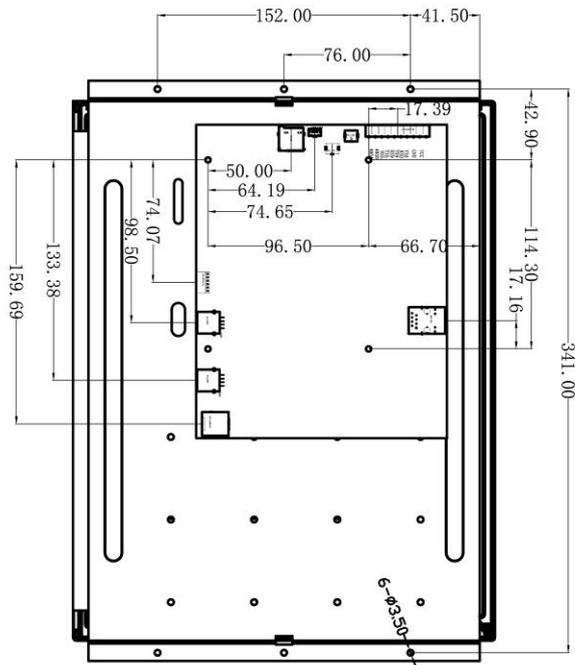
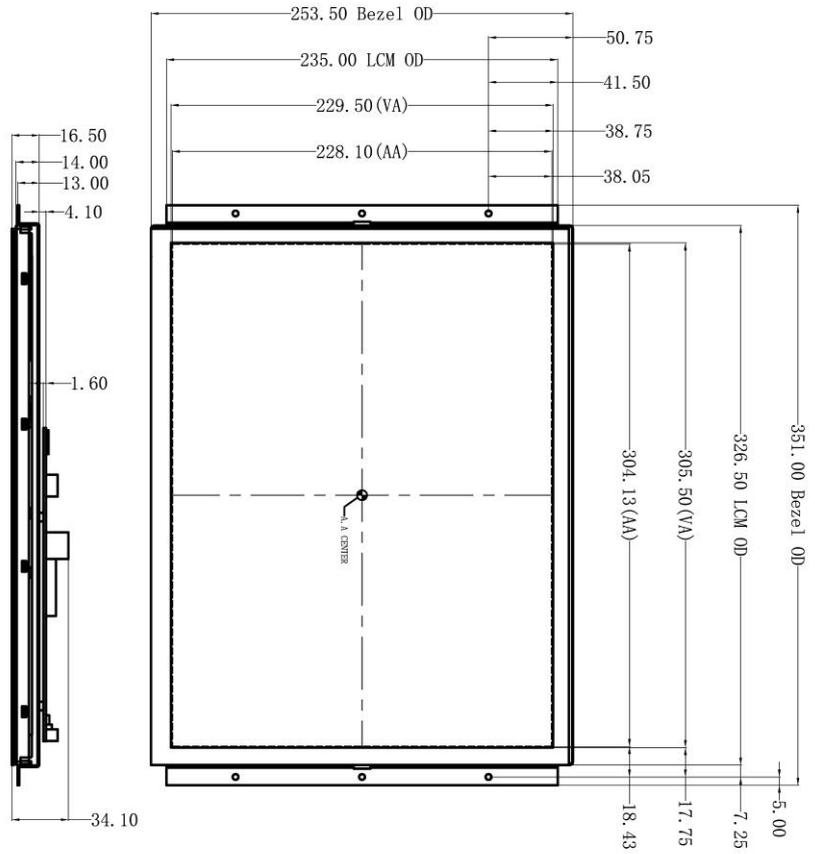


● 开发平台 Development Platform

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	351.00(W)×253.50(H)×34.10(T)mm			
净重量 Net Weight	1430g			
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	10	10



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

定义/Definition	序号/Pin#	类型/IO	说明/Description
VCC	1	P	电源输入 Power Input
GND	2	P	公共接地 GND
TX0	3	0	串口0输出 Output
RX0	4	I	串口0输入 Input
TX9	5	0	串口9输出 Output
RX9	6	I	串口9输入 Input
TX5	7	0	串口5输出 Output
RX5	8	I	串口5输入 Input
485B	9	B	RS485-
485A	10	A	RS485+

型号/Model	DMG10768T150_32WTC		
图框/Drawing	A 4	绘制/Drawn	DWIN
比例/Scale	1:1	审核/Review	
单位/Unit	MM	批准/Approval	
日期/Date	2023.10.26	日期/Date	

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● **修订记录 Revision Records**

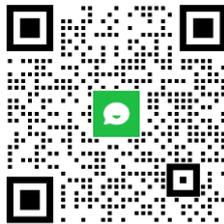
版本 Rev.	日期 Revise Date	描述 Content	编辑人 Editor
00	2023-10-26	首次发布 Initial release	郑运佳
01	2025-01-03	增加开发平台的描述 Add the description of development platform	陈艳
02	2025-02-05	更新电压范围 Update the current value range	陈艳
03	2025-03-05	新增蓝牙描述 Add the description of Bluetooth	陈艳
04	2025-04-18	更新温度范围 Update the rang of temperature	陈艳
05	2025-05-15	更新 Wi-Fi 模块描述 Update the description of Wi-Fi module	陈艳

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