

DMG12800T121_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	12.1 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)	261.12mm(W)×163.20mm(H)	-
分辨率 Resolution	1280×800	-
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	600nit	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
触摸屏结构 Structure	G+G 结构, 表层为钢化玻璃 G+G structure with tempered glass surface

● 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.

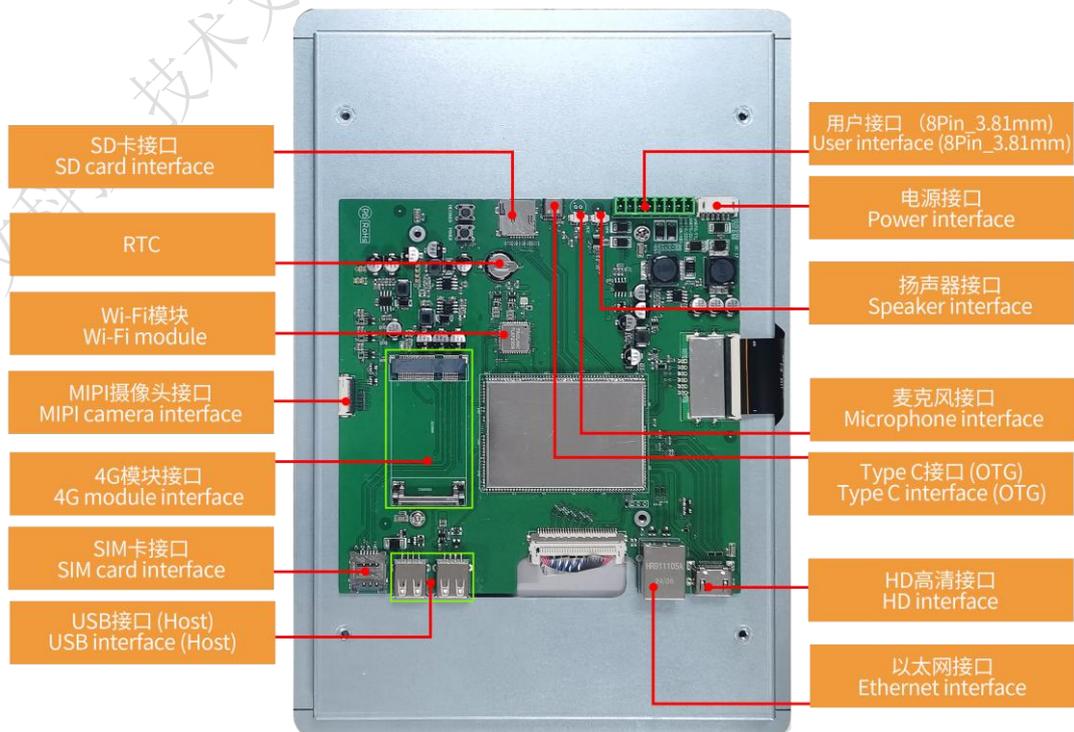
● 工作环境和可靠性参数 Environment & Reliability Test

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	-	-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
EFT	群脉冲干扰±2kV Group pulse interference ±2kV
RE	Class B
CE 认证 CE Certification	有 Y
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	8Pin_3.81mm 立式插座*1, 6Pin_2.0mm 卧式插座*1 8Pin_3.81mm vertical socket*1, 6Pin_2.0mm horizontal socket*1
COM	RS232*2 (COM5 & COM9), RS485*1 (COM8), TTL*1 (COM0)
Wi-Fi	IEEE 802.11b/g/n, 2.4 GHz, Wi-Fi 4
蓝牙版本 Bluetooth Version	BT4.2
USB	USB 2.0*2 (HOST), Type C*1 (OTG)
Speaker	2Pin_1.25mm interface*1
Microphone	2Pin_1.25mm interface*1
摄像头接口 Camera Interface	MIPI*1
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
HD Interface	Output only



● 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	303.70(W)×205.80(H)×32.10(T)mm			
净重量 Net Weight	1300g			
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	2	1	2
4号箱 Carton4:	450mm(L)×350mm(W)×300mm	-	-	-
5号箱 Carton5:	600mm(L)×450mm(W)×300mm	1	10	10

● **修订记录 Revision Records**

版本 Rev.	日期 Revise Date	描述 Content	编辑人 Editor
00	2025-01-07	首次发布 First edition	陈艳
01	2025-03-05	新增蓝牙描述 Add the description of Bluetooth	陈艳
02	2025-04-18	更新温度范围 Update the rang of temperature	陈艳
03	2025-05-15	更新 Wi-Fi 模块描述 Update the description of Wi-Fi module	陈艳

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