DMG10768C080_32WTC





Features:

- Commercial Android intelligent display terminal based on RK3566, running Android 11 operating system.
- 8.0-inch, 1024*768 pixels resolution, 16.7M colors, IPS-TFT-LCD, wide viewing angle, Capacitive Touch.
- Compatible with WIFI, bluetooth, microphone, camera and other rich peripherals.
- Available for USB and SD card updates.
- Available for downloading Android general apps to realize functions such as WiFi ,wired internet , browsing, music and video playback, data copy, etc.
- Available for RS232, RS485 to connect and communicate with external devices.

Master Control Parameters

Properties	Parameters			
Motherboard level	Commercial			
СРИ	RK3566, Cortex-A55, quad-core			
os	Android 11			
FLASH	8Gbytes EMMC			
RAM	2Gbytes DDR4			

Display Parameters

Properties	Parameters	Description		
Color	16.7M(16777216)colors	24 bit color 8R8G8B		
Panel Type	IPS	IPS process, TFT LCM with wide viewing angle		
Viewing Angle	85/85/85/85 (L/R/U/D)	Best View: symmetrical		
Active Area (A.A.)	162.05mm (W)*121.54mm (H)	1024*768 Pixel		
View Area (V.A.)	162.60mm (W)*122.20mm (H)	1024*768 Pixel		
Resolution	1024*768 Pixel	Available for 0°/90°/180°/270°rotated display		
Backlight	LED	≥20000H(time of the brightness decaying to 50% of the condition of continuous working with the maximum brightness)		
Brightness	250nit	100 levels adjustment(It's not recommend to set brightness to 1%~30% of the maximum, which may lead to LCD flicker.)		

Note: You can use dynamic screen saver wallpapers to avoid afterimages caused by fixed page display for a long time.

Voltage & Current

Properties Conditions		Min	Тур.	Max	Unit
Power Voltage	(-0),	8.0	12.0	23	V
Operation Current	VCC = +12V, Backlight on	-	310	-	mA
	VCC = +12V, Backlight off	-	130	-	mA
Recommended power supply: 12V 1A DC					

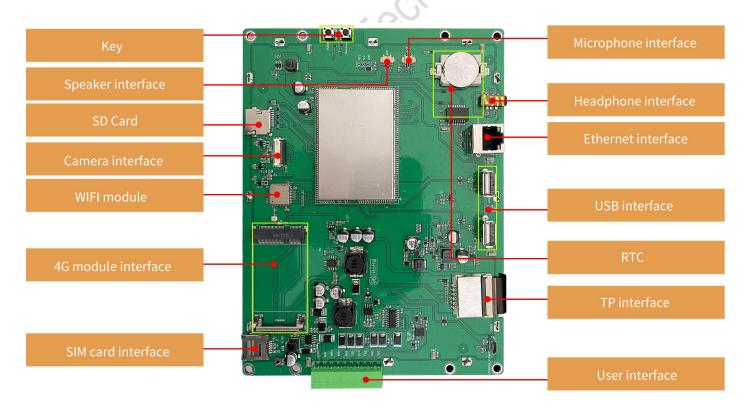
Reliability Test

Properties	Properties Conditions		Тур.	Max	Unit
Working Temperature	60%RH at 12V voltage	-10	25	60	$^{\circ}$
Storage Temperature	perature -		25	70	$^{\circ}$
Working Humidity	25 ℃	10%	60%	90%	RH
Protective Paint	Yes				
ESD	Air discharge±4KV, Contact discharge ±4K				

DWIN Technology +86-400-018-9008 www.dwin-global.com

Peripherals and Interfaces

Properties	Parameters	Description
	2-way RS232	UART5 & UART9
сом	1-way RS485	UART8
	1-way TTL/COMS	UART0
USB	3-way	HOST*2,OTG*1
Headphone	1-way	3.5mm spacing interface
Speaker	1-way	2Pin_1.25mm interface
Microphone	1-way	2Pin_1.25mm interface
Camera	1-way	USB and MIPI supported
4G module	1-way	Factory not configured, customizable to add
SIM card	1-way	- (')''
SD card	1-way	Drawer type card slot(Max 64G)
Ethernet	1-way	10/100Mbps
WIFI	1-way	IEEE 802.11Bb/g/n,2.4G,Bluetooth
RTC	1-way	Button cell for power supply. Accuracy: ±20ppm @25℃



Interface

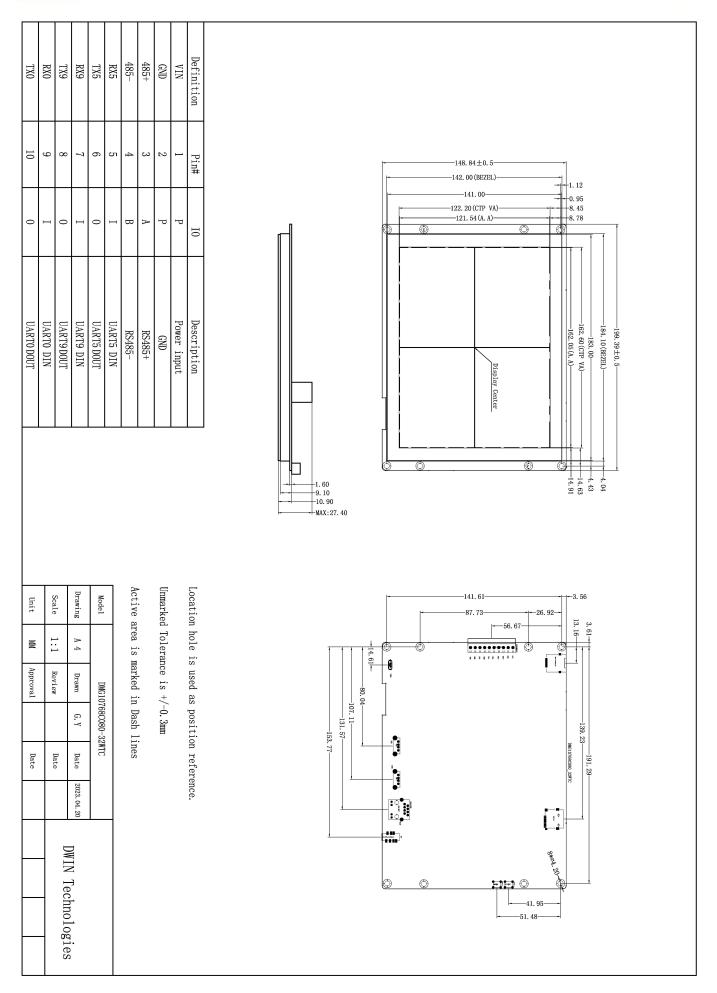
Properties	Conditions	Min	Тур.	Max	Unit
Baud Rate	User Set	2400	115200	230440	bps
Output Voltage	Output 1	-	-5.0	-	V
(TXD)	Output 0	-	5.0	-	V
Input Voltage (RXD)	Input 1	-	-5.0	-	V
	Input 0	-	5.0	-	V
Baud Rate	User Set	2400	115200	921600	bps
(V_AB)	Output 1	2.5	5.0	-	V
	Output 0	-	-5.0	-2.5	V
(V_AB)	Input 1	0	2.5	-	V
	Input 0	-	-2.5	-0.2	V
Interface	Support TTL/COMS,RS232 or RS485 level				
Socket	10Pin_3.81mm Socket				

Packing Capacity & Dimension

acking Capacity &	& Dimension						
Dimension							
Dimension	199.39(W)*148.84(H)*27.40(T)mm						
Net Weight	430g	430g					
Packing Capacity							
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)			
Carton1:	220mm(L)*160mm(W)*47mm (H)	-	-	-			
Carton2:	250mm(L)*200mm(W)*80mm (H)	2	1	2			
Carton3:	320mm(L)*270mm(W)*80mm (H)	-	-	-			
Carton4:	450mm(L)*350mm(W)*300mm(H)	1	16	16			
Carton5:	600mm(L)*450mm(W)*300mm(H)						
	Y ecul.						

Disclaimer: The product design is subject to alternation and improvement without prior notice.

DWIN Technology +86-400-018-9008 www.dwin-global.com



Revision Records

Rev	Revise Date	Content	Editor
00	2023-04-24	First edition	YML
01	2023-5-15	Remove the 4G module and update the physical image	YML
02	2023-10-24	Update the PCB and Interface pictures	YML

Please contact us if you have any questions about the use of this document or our products, or if you would like to know the latest information about our products:

Customer service Tel: +86-400-018-9008

Customer service E-mail: dwinhmi@dwin.com.cn

Website: www.dwin-global.com

DWIN Developer Forum: https://forums.dwin-global.com/index.php/forums

Thank you all for continuous support of DWIN, and your approval is the driving force of our progress!

Important Disclaimer

DWIN reserves the right to make any changes to product designs without prior notice.

Customers should ensure strictly adhering to all the relevant standards and requirements during the product application process, including but not limited to functional safety, information security, and regulatory provisions. DWIN shall not bear any joint and several liability for any consequences that may arise from customers' adoption of DWIN products. In particular, for risks that may lead to significant property losses, environmental hazards, personal injury, or even death, especially in high-risk application areas such as military applications, flammable and explosive places, and life-saving medical equipment, customers should independently assess the risks and take corresponding preventive and protective measures. DWIN shall not bear any relevant responsibility.