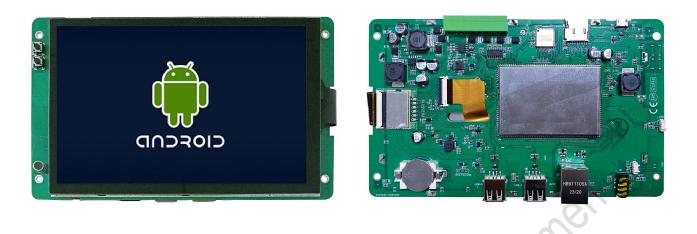


DMG12800C070_32WTC



Features:

- Commercial Android intelligent display terminal based on RK3566, running Android 11 operating system.
- 7.0-inch, 800*1280 pixels resolution, 16.7M colors, IPS-TFT-LCD, wide viewing angle, Capacitive touch.
- Compatible with WIFI, bluetooth, microphone, camera and other rich peripherals.

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- 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 and Ethernet port to connect and communicate with external devices.



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Master Control Parameters

Properties	Parameters
Motherboard level	Commercial
CPU	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.)	94.20mm (W)*150.72mm (H)	800*1280 Pixel					
Visible Area (V.A.)	94.60mm (W)*151.12mm (H)	800*1280 Pixel					
Resolution	800*1280 Pixel	Available for 0°/90°/180°/270°rotated display					
Backlight	LED	≥20000H(time of the brightness decaying to 50% on the condition of continuous working with the maximum brightness)					
Brightness	300nit	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	Мах	Unit			
Power Voltage	- 0,	7.0	12.0	23	V			
Operation Current	VCC = +12V, Backlight on	-	260	-	mA			
Operation Current	VCC = +12V, Backlight off	-	110	-	mA			
Recommended power supply: 12V 1A DC								

Reliability Test

Properties	Conditions	Min	Тур	Мах	Unit		
Working Temperature	60%RH at 12V voltage	-10	25	50	°C		
Storage Temperature	-	-15	25	55	°C		
Working Humidity	25 ℃	10%	60%	90%	RH		
Protective Paint		Yes					
ESD	Air discharge \pm 8KV, Contact discharge \pm 6K						
CE	Class B						

Properties	Parameters	Description		
	2-way RS232	UART5 & UART9		
Interface	1-way RS485	UART8		
-	1-way TTL/COMS	UART0		
USB Interface	3-way	HOST*2,OTG*1		
Headphone Interface	1-way	3.5mm spacing interface		
Speaker Interface	1-way	2Pin_1.25mm interface		
Microphone Interface	1-way	2Pin_1.25mm interface		
Camera Interface	1-way	USB		
SD Card Interface	1-way	Drawer type card slot(Max 64G)		
LAN Interface	1-way	10/100Mbps		
WIFI Module	1-way	IEEE 802.11Bb/g/n,2.4G,Bluetooth		
RTC	1-way	Button cell for power supply. Accuracy: ± 20 ppm @25 $^{\circ}$ C		
peaker interface Mini USB		Microphone interfa Headphone interfa		
SD card WIFI modular		Ethernet interfac		
		USB interface		
User interface				
LCM interface		RTC		
TP interface				

Disclaimer:

There are multiple parallel raw materials coexisting to guarantee the stable supply. If customers have particular raw material preferences or requirements, please contact the sales personnel.

• Interface

Properties	Conditions	Min	Тур	Мах	Unit		
Baud Rate	User Set	2400	115200	230440	bps		
Output Voltage	Output 1	-	-5.0	-	V		
(TXD)	Output 0	-	5.0	-	V		
Input Voltage	Input 1	-	-5.0	-	V		
(RXD)	Input 0	-	5.0	-	V		
Baud Rate	User Set	2400	115200	921600	bps		
	Output 1	2.5	5.0	-	V		
(V_AB)	Output 0	-	-5.0	-2.5	V		
	Input 1	0	2.5	-0	v		
(V_AB)	Input 0	-	-2.5	-0.2	V		
Interface	Support TTL/COMS,RS232 or RS48	35 level					
Socket	10Pin_3.81mm Socket						

• Packing Capacity & Dimension

Dimension										
Dimension	112.2(W)*186.9(H)*21.9(T)mm	112.2(W)*186.9(H)*21.9(T)mm								
Net Weight	305g									
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)	2	2	4						
Carton4:	450mm(L)*350mm(W)*300mm(H)	1	20	20						
Carton5:	600mm(L)*450mm(W)*300mm(H)	1	34	34						

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

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RX5	TX5	RXO	TX0	RX9	TX9	485+	485-	GND	VIN	Definition	
10	6	8	7	6	5	4	ω	2	1	Pin#	
I	0	I	0	I	0	А	В	Р	Р	10	
UART 5 Input	UART 5 Output	UART 0 Input	UART 0 Output	UART 9 Input	UART 9 Output	RS485-	RS485-	GND	Power Input	Description	112. 2±0. 5
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Approval	Review	Drawn		DMG128	Talle	10000	is us				79.5 t
		NTMG		DMG12800C070 32WTC	1, 51	: <u></u> , +/_	ed as				
Date	Date	Date		32WTC	0.01111	0.3mm	positiv				
	-		NWTN Ter				Location hole is used as position reference.				
		SOTOTING	hnolog								
		TES	100								



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Record of Revision

Ver	Revise Date	Editor	
00	2023-01-09	First edition	YML
01	2023-08-07	Modify the WIFI module information	YML
02	2024-01-29	Update appearance, ESD and temperature range	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.

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