DMG12800T070_32WTC





Features:

- Industrial Android intelligent display terminal based on RK3566, running Android 11 operating system.
- 7.0-inch, 1280*800 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 and Ethernet port to connect and communicate with external devices.

Master Control Parameters

Properties	Parameters	
Motherboard Level	Industrial	
CPU	(3566, Cortex-A55, quad-core	
os	ndroid 11	
FLASH	Gbytes EMMC	
RAM	2Gbytes LPDDR4	

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.)	149.76mm (W)*93.60mm (H)	1280*800 Pixel		
Visible Area (V.A.)	150.76mm (W)*94.60mm (H)	1280*800 Pixel		
Resolution	1280*800 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	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

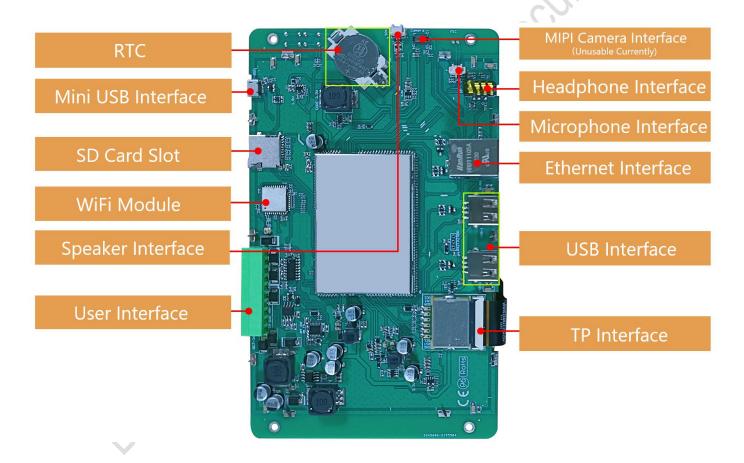
Properties	Conditions Min		Тур	Max	Unit
Power Voltage	- 7.0		12.0	23	V
Operation Current	VCC = +12V, Backlight on -		310	-	mA
Operation Current	VCC = +12V, Backlight off -		140	-	mA
Recommended power sup	oply: 12V 0.5A DC				

Reliability Test

Properties	Conditions	Min	Тур	Max	Unit
Working Temperature	60%RH at 12V voltage	-20	25	70	$^{\circ}$
Storage Temperature	-	-30	25	80	$^{\circ}$
Working Humidity 25℃		10%	60%	90%	RH
Protective Paint	Yes				
ESD	Air discharge ±8KV; Contact discharge ±6KV				
EFT	Group pulse interference ±2KV				

Peripherals and Interfaces

Properties	Parameters	Description		
	2-way RS232	UART5 & UART9		
СОМ	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, Not supported by Mipi		
SD Card Slot	1-way	Drawer type card slot(Max 64G)		
Ethernet 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: ±20ppm @25°C		



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

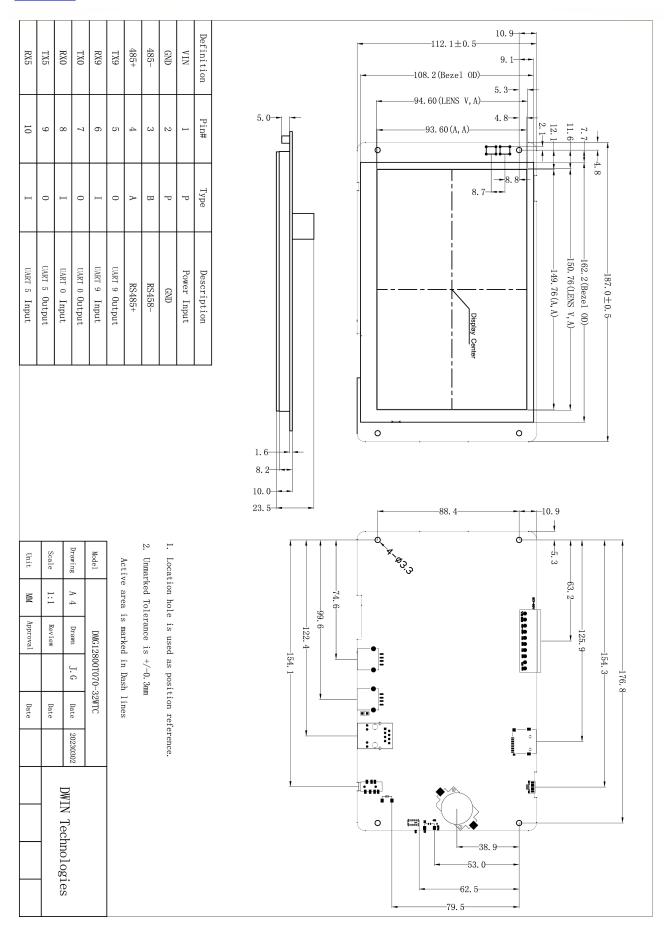
Properties	Conditions	Min	Тур	Max	Unit
Baud Rate	User Set	2400	115200	230440	bps
Output Voltage	Output 1	-	-5.0	-	V
(TXD)	Output 0	-	5.0	-	V
Input Voltage	Input 1	-	-5.0	-	V
(RXD)	Input 0	-	5.0	-	V
Baud Rate	User Set	2400	115200	921600	bps
(V AD)	Output 1	2.5	5.0	•	V
(V_AB)	Output 0	-	-5.0	-2.5	V
(V_AB)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

Packing Capacity & Dimension

Dimension	limension Control of the Control of			
Dimension	187.0(W)*112.1(H)*23.5(T)mm			
Net Weight	310g			
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.

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



Record of Revision

Ver	Revise Date	Content	Editor
00	2023-03-14	First edition	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.