# DMG12800T121\_40WTC





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# System Hardware

Properties	Parameters			
Motherboard Level	Industrial-grade			
CPU	RK3566, Quad-core ARM Cortex-A55, 1.8GHz Processor			
os	Linux 4.19			
Storage	8Gbytes eMMC			
RAM	2Gbytes LPDDR4			

## Display Parameters

Properties	Parameters	Description
Size	12.1 inch	-
LCD Type	IPS, TFT LCD	-
Viewing Angle	85° /85° /85° /85°	Wide viewing angle, high contrast, and good color reproduction
Active Area (AA)	261.12mm(W)×163.20mm(H)	-
Resolution	1280×800	- ~~~
Backlight Service Life	>20000 Hrs	Backlight service life refers to the period the LED backlight operates under test conditions until brightness decreases to 50% of the initial level
Brightness	600nit	100-level brightness adjustment (Flickering may occur at 1%-30% of max brightness; not recommended for use in this range)
Note: Use dynamic screen	n saver to prevent afterimages fro	

## Touch Parameter

Properties	Parameters		
Touch Type	Capacitive touch panel		
Structure	G+G structure with tempered glass surface		

# Power Supply

Properties	Min	Тур	Max	Unit	
Power Voltage	12.0	12.0	36.0	V	
Recommended power supply: 12V 1A DC					

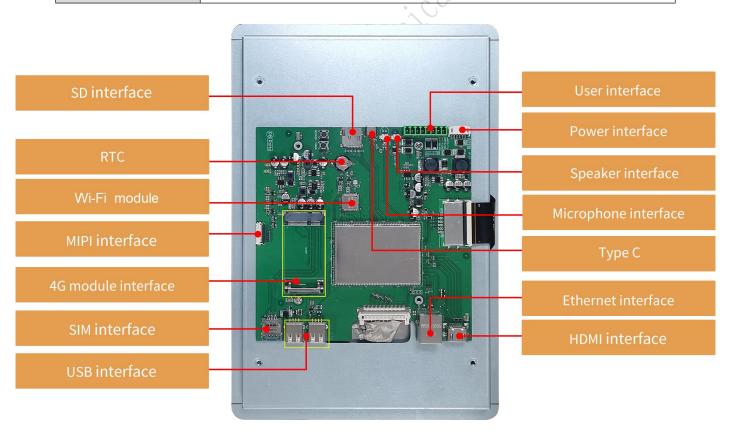
# • Environment & Reliability Test

Properties	Conditions	Min	Тур	Max	Unit
Working Temperature	60%RH at 12V voltage	-20	25	65	$^{\circ}$ C
Storage Temperature	-	-30	25	80	$^{\circ}$ C
Working Humidity	<b>25</b> ℃	10%	60%	90%	RH
Conformal Coating	Y				
ESD	Air: ±8KV; Contact: ±6KV				
EFT	Group pulse interference $\pm 2$ KV				
RE	Class B				
CE Certification	Y				
Additional cooling required for operation above 65°C.					

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Peripherals and Interfaces

Properties	Description			
User Interface	8Pin_3.81mm vertical socket, 6Pin_2.0mm horizontal socket			
СОМ	RS232*2(COM5 & COM9), RS485*1(COM8), TTL*1(COM0)			
Wi-Fi	IEEE 802.11b/g/n, 2.4GHz, Wi-Fi 4			
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			
Camera Interface	MIPI*1			
4G Module	Factory not configured, customizable to add			
SD card	Drawer type card slot(Max 64G)			
RTC	Accuracy: ±20ppm @25℃			
Ethernet	10/100Mbps			
номі	23PIN_HDMI_SH			



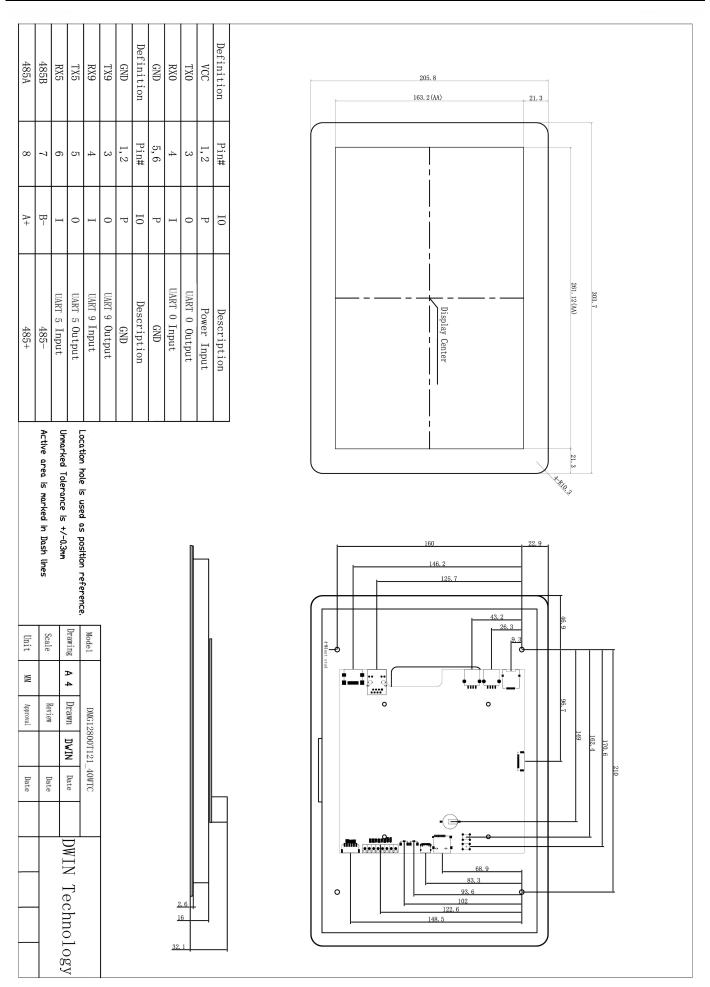
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### Development Platform

Development	
Linux	QtCreator2.7.2 and above

### Packing Capacity & Dimension

Dimension						
Dimension	n 303.70(W)×205.80(H)×32.10(T)mm					
Net Weight	1300g					
Packing Capacity						
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)		
Carton1:	220mm(L)×160mm(W)×47mm (H)	-	-	-		
Carton2:	250mm(L)×200mm(W)×80mm (H)	-	-	-		
Carton3:	320mm(L)×270mm(W)×80mm (H)	2	1	2		
Carton4:	450mm(L)×350mm(W)×300mm(H)	-	-	-		
Carton5:	600mm(L)×450mm(W)×300mm(H)	1	10	10		
Carton5: 600mm(L)×450mm(W)×300mm(H) 1 10 10						





#### **Revision Records**

Rev.	Revise Date	Content	Editor
00	2025-01-09	First edition	Chen
01	2025-03-12	Add the description of Bluetooth	Chen
02	2025-06-17	Update the description of Wi-Fi module	Chen

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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

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