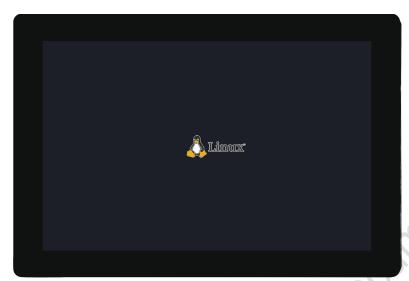
DMG12800T121_40WTC





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System Hardware

Properties	Parameters			
Motherboard Level	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	- 1		
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	m prolonged fixed page display.		

Touch Parameter

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

Power Supply

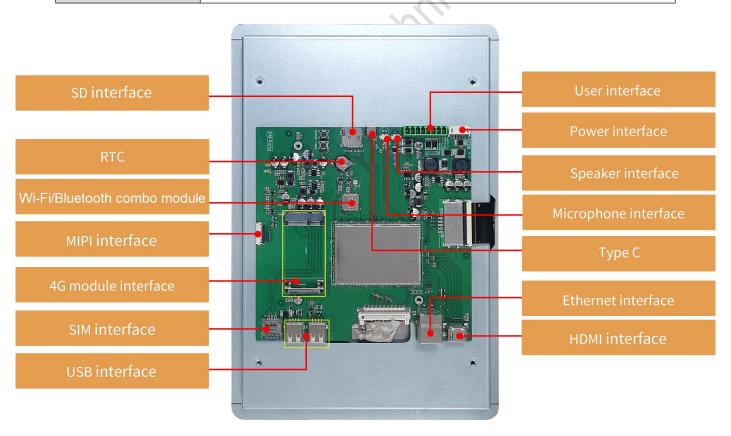
Properties	Min	Тур	Max	Unit	
Power Voltage	12.0	12.0	36.0	V	
Recommended power supply: 12V 1A DC					

• Environment & Reliability Test

Properties	Conditions	Min	Тур	Max	Unit
Working Temperature	60%RH at 12V voltage	-20	25	70	$^{\circ}$ C
Storage Temperature	-	-30	25	80	$^{\circ}$
Working Humidity	25 ℃	10%	60%	90%	RH
Conformal Coating	Y				
ESD	Air: ±8KV; Contact: ±6KV				
EFT	Group pulse interference±2KV				
RE	Class B				
CE Certification	Υ				

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 802.11Bb/g/n, 2.4GHz, Bluetooth			
Bluetooth	4.2GHz			
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			

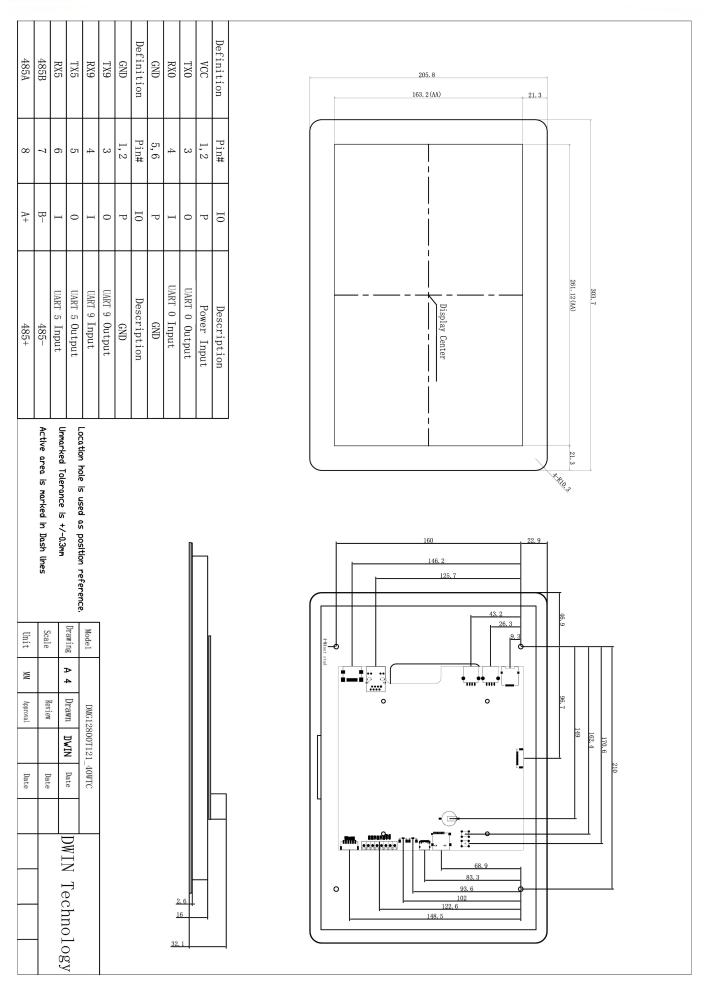


Development Platform

Development	
Linux	QtCreator2.7.2 and above

Packing Capacity & Dimension

Dimension					
	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)	-	-	<u> </u>	
Carton3:	320mm(L)×270mm(W)×80mm (H)	2	1	2	
Carton4:	450mm(L)×350mm(W)×300mm(H)	-	- 6	(S) -	
Carton5:	600mm(L)×450mm(W)×300mm(H)	1	10	10	
	Lechnology Le				



Revision Records

Rev.	Revise Date	Content	Editor
00	2025-01-09	First edition	Chen
01	2025-03-12	Add the description of Bluetooth	Chen

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:

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

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