DMG80480T050_32WTC





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System Hardware

Properties	Parameters
Motherboard Level	Industrial-grade
СРИ	RK3566, Quad-core ARM Cortex-A55, 1.8GHz Processor
os	Android 11
Storage	8Gbytes EMMC
RAM	2Gbytes LPDDR4

Display Parameters

Properties	Parameters	Description		
Size	5.0 inch	-		
LCD Type	IPS, TFT LCD	-		
Viewing Angle	85° /85° /85° /85°	Wide viewing angle, high contrast, and good color reproduction		
Active Area (AA)	108.0mm (W)*64.8mm (H)	- ~		
Visible Area (VA)	108.6mm (W)*65.4mm (H)	- illight		
Resolution	800*480	Available for 0°/90°/180°/270°rotated display		
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	250nit	100-level brightness adjustment (Flickering may occur at 1%-30% of max brightness; not recommended for use in this range)		
Note: Use dynamic screen saver to prevent afterimages from 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	9.0	12.0	36.0	V	
Recommended power supply: 12V 1A DC.					

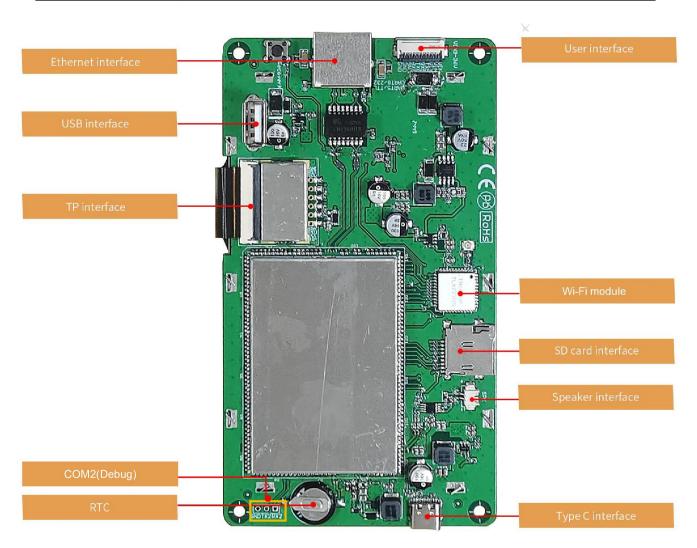
• Environment & Reliability Test

Properties	Conditions	Min	Тур	Max	Unit
Working Temperature	60%RH at 12V voltage	-20	25	65	°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 ± 2 KV				
Additional cooling required for operation above 65°C.					

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Peripherals and Interfaces

Properties	Description		
User Interface	10Pin_1.0mm socket		
СОМ	RS232*1(COM8), TTL*1(COM5), TTL*1(COM2, debug)		
USB	USB 2.0*1 (HOST), Type C*1 (OTG)		
Wi-Fi	IEEE 802.11b/g/n, 2.4GHz, Wi-Fi 4		
Bluetooth Version	BT4.2		
Speaker	2Pin_1.25mm interface*1		
SD card	Max 64G		
RTC	Accuracy: ±20ppm @25℃		



Development Platform

Development		
Android	Java, Kotlin, C++	

Packing Capacity & Dimension

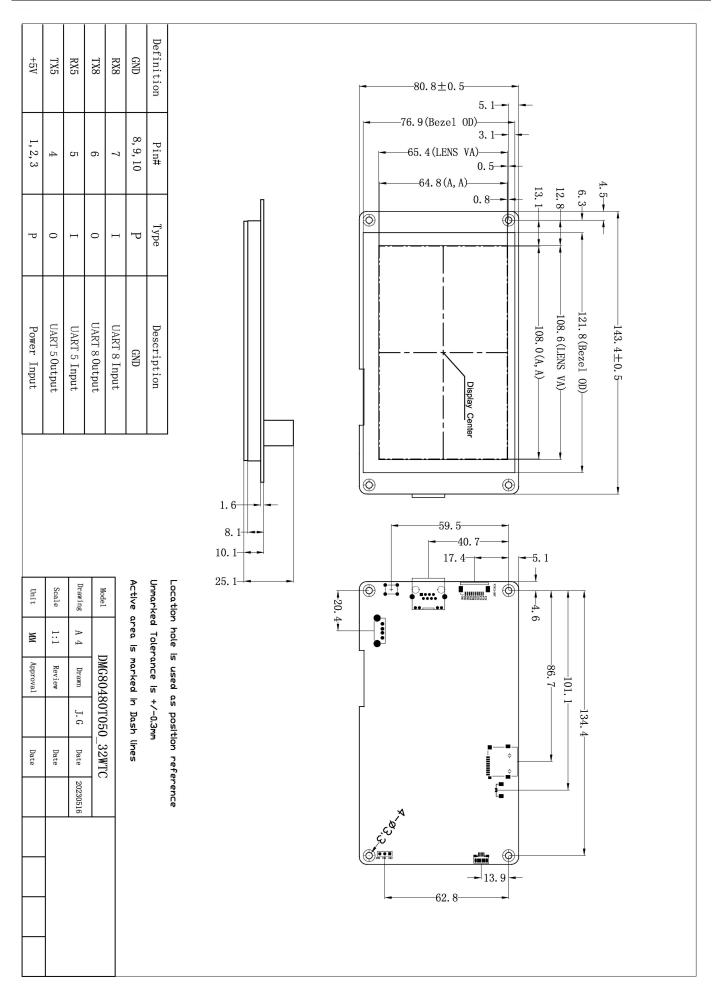
Dimension					
Dimension	143.4(W)*80.8(H)*25.1(T)mm	143.4(W)*80.8(H)*25.1(T)mm			
Net Weight	185g				
Packing Capacity					
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)	
Carton1:	220mm(L)*160mm(W)*47mm (H)	1	1	1	
Carton2:	250mm(L)*200mm(W)*80mm (H)	2	2	4	
Carton3:	320mm(L)*270mm(W)*80mm (H)	2	3	6	
Carton4:	450mm(L)*350mm(W)*300mm(H) 1 60 60				
Carton5:	600mm(L)*450mm(W)*300mm(H)	2	60 X	120	

Optional Accessories

Accessories Name	Description	
T050-32ZJB	Power adapter, including adapter and cable	000



Power adapter diagram





Revision Records

Rev.	Revise Date	Content	Editor
00	2023-12-11	First edition	YML
01	2024-12-26	Modify the voltage value range, add development and update product picture	Chen
02	2025-03-12	Add the description of Bluetooth	Chen
03	2025-04-01	Update the range of temperature, and add the power adapter diagram	Chen
04	2025-06-17	Update the description of Wi-Fi module	Chen

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Shall not.

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