DMG80480T050_32WTC



with technology technical book

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• System Hardware

Properties	Parameters
Motherboard Level	Industrial-grade
CPU	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	- X				
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)					
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	Мах	Unit	
Power Voltage	9.0	12.0	36.0	V	
	1 101/11 00				

Recommended power supply: 12V 1A DC.

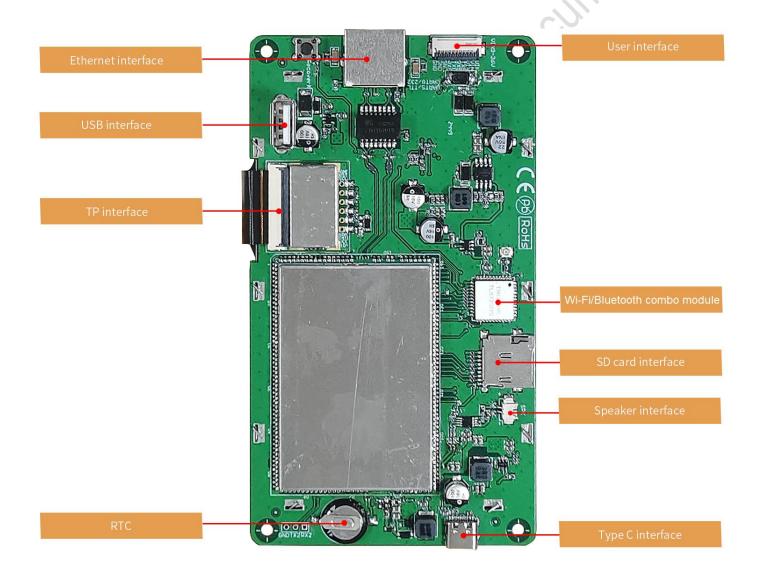
• Environment & Reliability Test

Properties	Conditions	Min	Тур	Max	Unit	
Working Temperature	60%RH at 12V voltage	-10	25	60	°C	
Storage Temperature	-	-20	25	70	°C	
Working Humidity	25°C 10% 60% 90'				RH	
Conformal Coating	Y					
ESD	Air: \pm 8KV, Contact: \pm 6KV					
EFT	Group pulse interference ± 2 KV					

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• Peripherals and Interfaces

Properties	Description
User Interface	10Pin_1.0mm socket
СОМ	RS232*1(COM8), TTL*1(COM5)
USB	USB 2.0*1(HOST), Type C*1(OTG)
Wi-Fi	IEEE 802.11Bb/g/n, 2.4G, Bluetooth
Bluetooth	4.2GHz
Speaker	2Pin_1.25mm interface*1
SD card	Drawer type card slot(Max 64G)
RTC	Accuracy: ±20ppm @25°C



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• Development Platform

Development	
Android	Java, Kotlin, C++

Packing Capacity & Dimension

Dimension							
Dimension	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: Carton5:	450mm(L)*350mm(W)*300mm(H) 600mm(L)*450mm(W)*300mm(H)	1 2	60 60	60 120			
ONIN	-echnology	schnicc					

	TX5	RX5	TX8	RX8	GND	Definition		80. 8±0. 5 5. 1
	4	5	6	7	8,9,10	Pin#		76.9 (Bezel 0D) 3.1
р	0	Ι	0	I	Р	Туре		
Power Input	UART 5 Output	UART 5 Input	UART 8 Output	UART 8 Input	GND	Description		121. 8 (Bezel 0D) 108. 6 (LENS VA) 108. 0 (A, A)
								59.5
Unit	Scale	Drawing	Model		Activ	Loca ¹ Unmar	10. 1	
MM	e 1:1	ng A 4			re area li	tion hole rked Tole		
Approval	Review	Drawn	DMG804		Active area is marked in Dash lines	Location hole is used as positic Unmarked Tolerance is +/-0.3mm		86.7
		J. G	DMG80480T050_32WTC		in Dash (as positii +/-0,3mm	1	
Date	Date	Date 20	32WTC		ines	tion hole is used as position reference ~ked Tolerance is +/-0.3mm		
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								62.8

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Record of Revision

Ver	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

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