# DMG80480T050\_40WTCZOS-1





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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	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	acklight Service Life >20000 Hrs  Backlight service life refers to the period backlight operates under test condition brightness decreases to 50% of the in		
Brightness	tness  250nit  100-level brightness adjustment (Flickering ma 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 sup	oply: 12V 1A DC.			

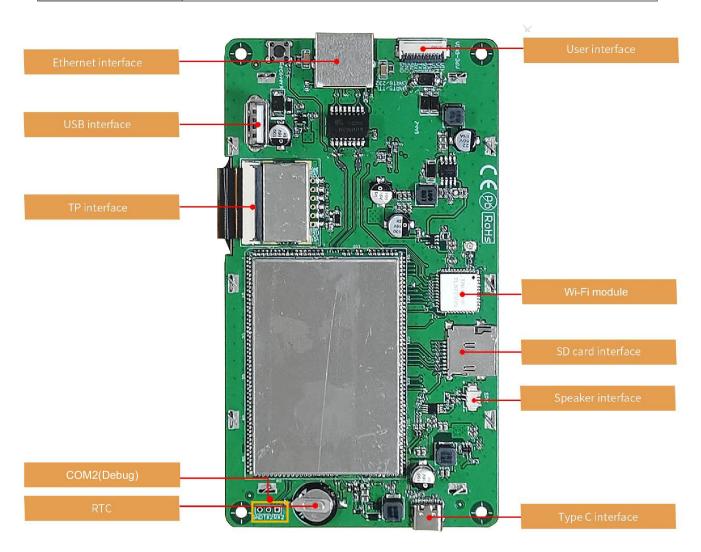
# • Environment & Reliability Test

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

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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℃	



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#### Development Platform

Development		
Linux	Debian 10	

#### Packing Capacity & Dimension

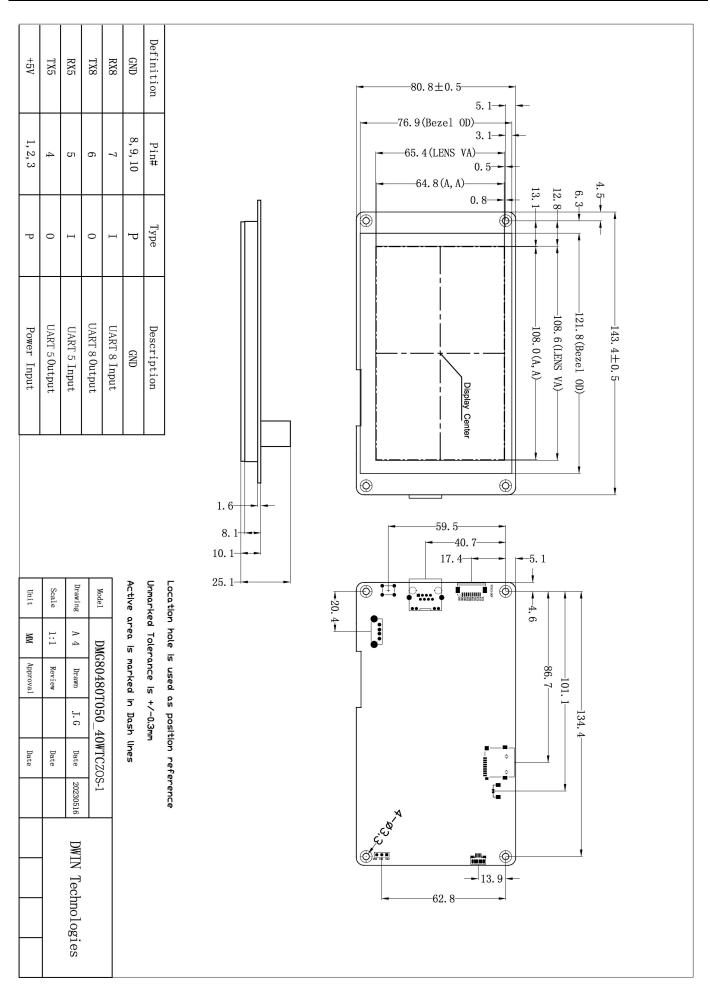
Dimension					
Dimension	143.4(W)*80.8(H)*25.1(T)mm				
Net Weight	185g				
Packing Capacity	y				
Model	Size Layer Quantity/Layer Quantity(Pcs)				
Carton1:	220mm(L)*160mm(W)*47mm (H)	1	1	1	
Carton2:	250mm(L)*200mm(W)*80mm (H) 2 2 4				
Carton3:	320mm(L)*270mm(W)*80mm (H) 2 3 6			6	
Carton4:	450mm(L)*350mm(W)*300mm(H)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

#### Optional Accessories

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



Power adapter diagram



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#### **Revision Records**

Rev.	Revise Date	Content	Editor
00	2023-09-22	First Edition	YML
01	2025-01-02	Modify the voltage value range, add development	Chen
02	2025-03-12	Add the description of Bluetooth	Chen
03	2025-04-07	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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