DMG80480T050_40WTC





MINTECHNO 10%.

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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)	- ills,	
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.					

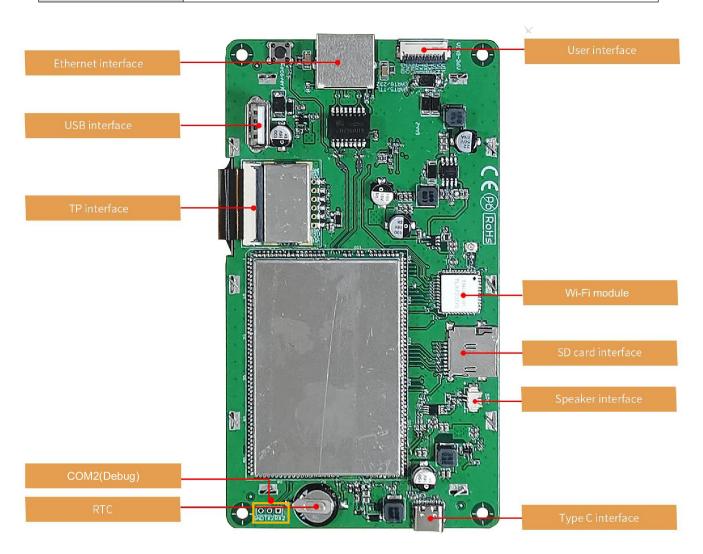
• Environment & Reliability Test

Properties Conditions		Min	Тур	Max	Unit
Working Temperature 60%RH at 12V voltage		-20	25	65	$^{\circ}$
Storage Temperature	Storage Temperature -		25	80	$^{\circ}$
Working Humidity 25℃		10%	60%	90%	RH
Conformal Coating	Y				
ESD	Air: ±8KV, Contact: ±6KV				
EFT	Group pulse interference ±2KV				
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	
QT	QTCreator2.7.2 and above

Packing Capacity & Dimension

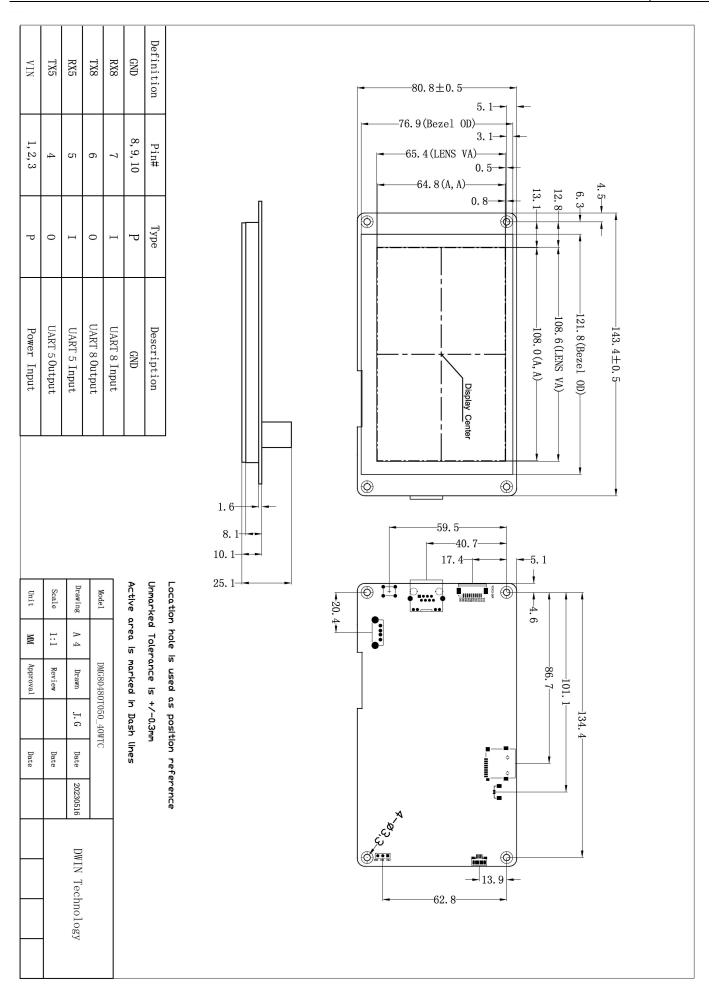
Dimension					
Dimension	143.4(W)*80.8(H)*25.1(T)mm				
Net Weight	185g				
Packing Capacity					
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)	
Carton1:	220mm(L)*160mm(W)*47mm (H)	1	1	1	
Carton2:	250mm(L)*200mm(W)*80mm (H) 2 2 4				
Carton3:	320mm(L)*270mm(W)*80mm (H) 2 3 6				
Carton4:	450mm(L)*350mm(W)*300mm(H)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

Optional Accessories

Accessori	es Name	Description	
T050-32ZJ	В	Power adapter, including adapter and cable	000



Power adapter diagram





Revision Records

Rev.	Revise Date	Content	Editor
00	2023-05-22	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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Thank you all for continuous support of DWIN, and your approval is the driving force of our progress!

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