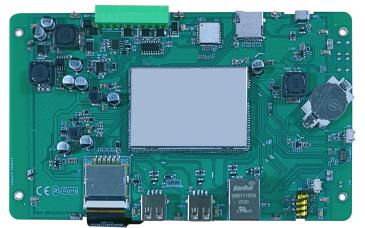
# DMG12800T070\_40WTC





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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	7.0 inch	-		
LCD Type	IPS, TFT LCD	-		
Viewing Angle	Viewing Angle 85° /85° /85° /85° Wide viewing angle, high reproduction			
Active Area (AA)	149.76mm(W)x93.60mm(H)			
Viewing Area(VA)	150.76mm(W)x94.60mm(H)	- 1001		
Resolution	1280x800	- Clir		
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 scree	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

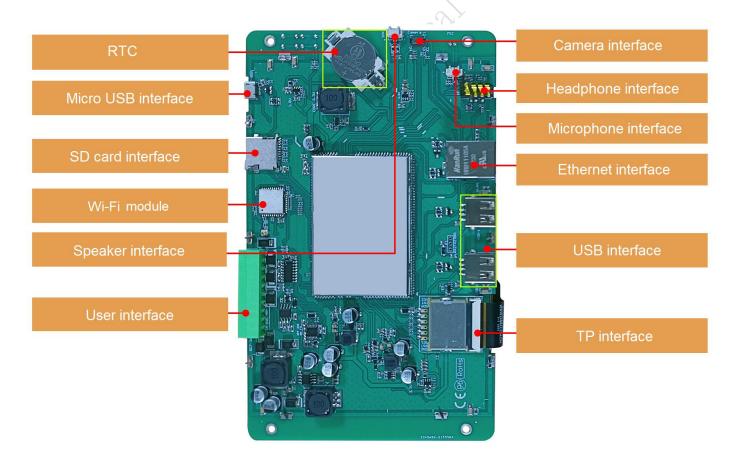
Properties	Min	Тур	Max	Unit	
Power Voltage	9.0	12.0	36.0	V	
Recommended power supply:12V 1A DC.					

# • Environment & Reliability Test

Properties	Conditions	Min	Тур	Max	Unit
Working Temperature	Temperature 60%RH at 12V voltage		25	65	$^{\circ}$
Storage Temperature -		-30	25	80	$^{\circ}$
Working Humidity	<b>25</b> ℃	10%	60%	90%	RH
Conformal Coating	Y				
ESD	Air: ±8KV; Contact: ±6KV				
EFT	±2KV				
RoHS Certification	Y				
CE Certification	Y				
Additional cooling required for operation above 65°C.					

## Peripherals and Interfaces

Properties	Description				
User Interface	10Pin_3.81mm Horizontal socket				
сом	RS232*2(COM5 & COM9), RS485*1, RS232/TTL*1(COM0, RS232 default)				
Ethernet	10/100Mbps				
USB	USB 2.0*2(HOST), Micro USB*1(OTG)				
SD Card	Max 64G				
RTC	Accuracy: ±20ppm @25℃				
Speaker	2Pin_1.25mm interface*1				
Microphone	2Pin_1.25mm interface*1				
Headphone	3.5mm spacing interface*1				
Camera	MIPI interface				
Wi-Fi	IEEE 802.11Bb/g/n, 2.4GHz, Wi-Fi 4				
Bluetooth Version	BT4.2				



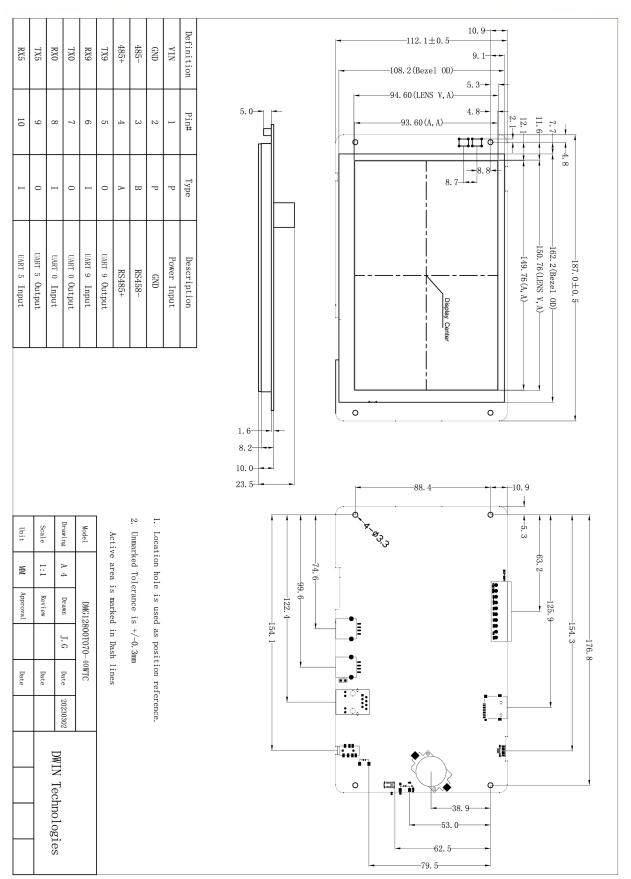
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#### Development Platform

Development	
Linux	QTCreator2.7.2 and above

### Packing Capacity & Dimension

Dimension				
Dimension	187.0(W)*112.1(H)*23.5(T)mm			
Net Weight	310g			
Packing Capacity				
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)
Carton1:	220mm(L)*160mm(W)*47mm (H)	-	-	-
Carton2:	250mm(L)*200mm(W)*80mm (H)	2	1	2
Carton3:	320mm(L)*270mm(W)*80mm (H)	2	2	4
Carton4:	450mm(L)*350mm(W)*300mm(H)	1	20	20
Carton5:	600mm(L)*450mm(W)*300mm(H)	1	34	34
	600mm(L)*450mm(W)*300mm(H)	Shini		



#### **Revision Records**

Rev.	Revise Date	Content	Editor
00	2023-03-14	First edition	YML
01	2025-01-03	Modify the voltage value range, add development	Chen
02	2025-01-07	Modify values of working & storage temperature	Chen
03	2025-03-13	Add the description of Bluetooth	Chen
04	2025-06-17	Update the rang of temperature & Update the description of Wi-Fi module	Chen
05	2025-09-15	Add the RoHS and CE certification	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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