# DMG12800C070\_40WTCZOS-1



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## System Hardware

Properties	Parameters		
Motherboard Level	Commercial-grade		
СРИ	RK3566, Quad-core ARM Cortex-A55, 1.8GHz Processor		
os	Linux 4.19		
FLASH	8Gbytes EMMC		
RAM	2Gbytes LPDDR4		

#### Display Parameters

Properties	Parameters	Description		
Size	7.0 inch	-		
LCD Type	IPS, TFT LCD	-		
Viewing Angle	85° /85° /85° /85°	Wide viewing angle, high contrast, and good color reproduction		
Active Area (AA)	94.20mm (W)*150.72mm (H)	- ~		
Viewing Area(VA)	94.60mm (W)*151.12mm (H)	- 11027		
Resolution	800x1280	-		
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.					

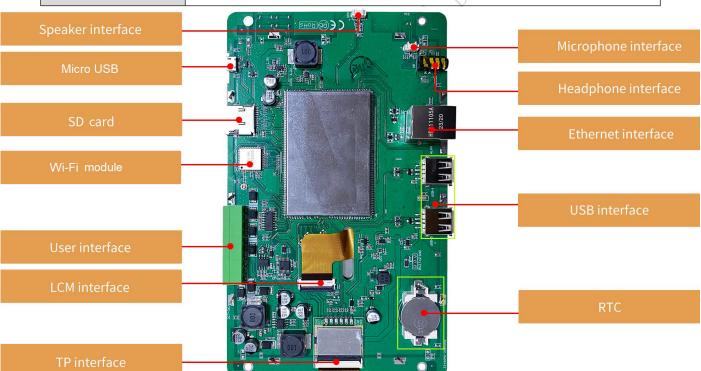
# Reliability Test

Properties	Conditions	Min	Тур	Max	Unit
Working Temperature	erature 60%RH at 12V voltage		25	60	$^{\circ}$
Storage Temperature	-	-20	25	70	$^{\circ}$
Working Humidity	<b>25</b> ℃	10%	60%	90%	RH
Conformal Coating	Υ				
ESD	Air: ±8KV, Contact: ±6K				
RE	Class B				
Additional cooling required for operation above 65℃.					

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## Peripherals and Interfaces

Properties	Description				
User Interface	10Pin_3.81mm Horizontal socket				
СОМ	RS232*2(COM5 & COM8), RS485*1, RS232/TTL*1(COM0, RS232 default)				
Ethernet	10/100Mbps				
USB	USB 2.0*2(HOST), Mrico USB*1(OTG)				
SD Card	Max 64G				
RTC	Accuracy: $\pm 20$ ppm @25 $^{\circ}$ C				
Speaker	2Pin_1.25mm interface*1				
Microphone	2Pin_1.25mm interface*1				
Headphone	3.5mm spacing interface*1				
Camera	USB 2.0				
Wi-Fi	IEEE 802.11Bb/g/n, 2.4GHz, Wi-Fi 4				
Bluetooth Version	BT4.2				



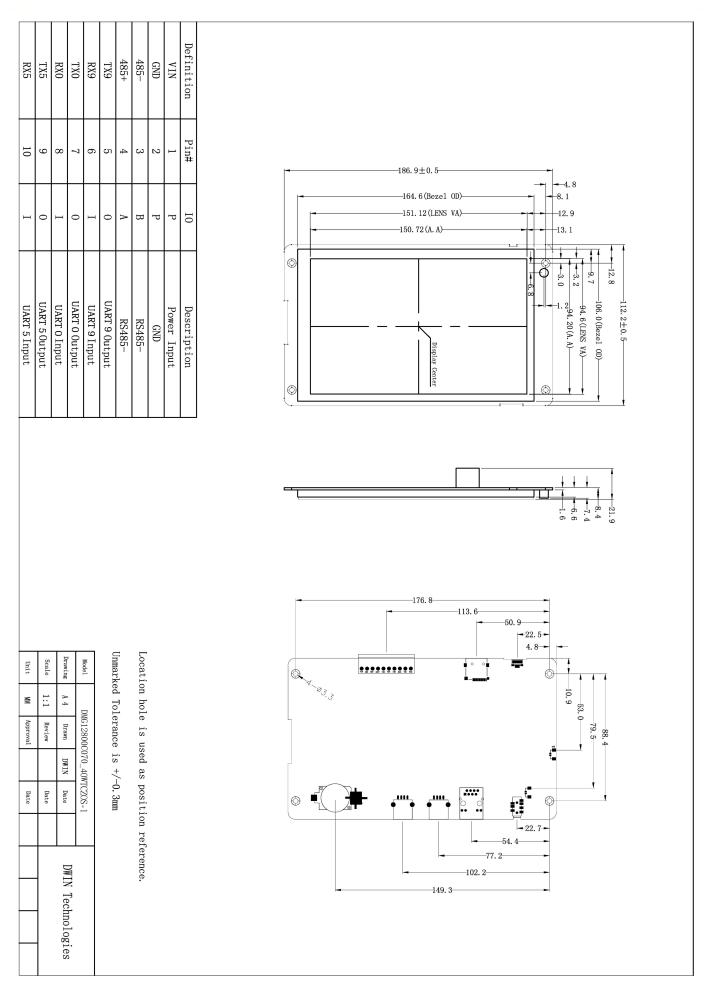
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#### Development Platform

Development	
Debian	Debian 10

#### Packing Capacity & Dimension

Dimension					
Dimension	112.2(W) * 186.9(H) * 21.9(T)mm	112.2(W) * 186.9(H) * 21.9(T)mm			
Net Weight	305g				
Packing Capacity	1				
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: Carton5:	450mm(L) * 350mm(W) * 300mm(H) 600mm(L) * 450mm(W) * 300mm(H)	1 1	20 34 ×	20 34	
		1,0°0°			
	600mm(L) * 450mm(W) * 300mm(H)				





#### **Revision Records**

Rev.	Revise Date	Content	Editor
00	2023-09-22	First edition	YML
01	2024-01-29	Update appearance, ESD and temperature range	YML
02	2025-01-03	Modify the voltage value range, add development	Chen
03	2025-03-12	Add the description of Bluetooth	Chen
04	2025-06-16	Update the rang of temperature & Update the description of Wi-Fi module	Chen

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Customer service Tel: +86-400-018-9008

Customer service E-mail: dwinhmi@dwin.com.cn

Website: www.dwin-global.com

DWIN Developer Forum: https://forums.dwin-global.com/index.php/forums

Thank you all for continuous support of DWIN, and your approval is the driving force of our progress!



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