DMG12800C070_40WTC





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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

Parameters	Description	
7.0 inch	- 1	
IPS, TFT LCD	-	
85° /85° /85° /85°	Wide viewing angle, high contrast, and good color reproduction	
94.20mm (W)*150.72mm (H)	-	
94.60mm (W)*151.12mm (H)	- 000	
800x1280	-	
>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	
250nit	100-level brightness adjustment (Flickering may occur at 1%-30% of max brightness; not recommended for use in this range)	
	7.0 inch IPS, TFT LCD 85° /85° /85° /85° 94.20mm (W)*150.72mm (H) 94.60mm (W)*151.12mm (H) 800x1280 >20000 Hrs	

Touch Parameter

Properties	Parameters	
Touch Type	Capacitive touch panel	
Structure	G+G structure with tempered glass surface	

Power Supply

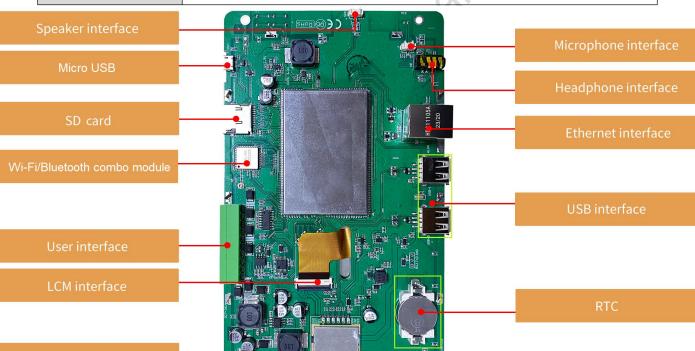
Properties Min		Тур	Max	Unit
Power Voltage	9.0	12.0	23.0	V
Recommended power supply:12V 1A DC.				

• Environment & Reliability Test

Properties Conditions		Min	Тур	Max	Unit
Working Temperature	60%RH at 12V voltage	-10	25	60	$^{\circ}$
Storage Temperature	-	-20	25	70	$^{\circ}$
Working Humidity	25°C 10% 60%		60%	90%	RH
Conformal Coating	Y				
ESD	Air: ±8KV, Contact: ±6K				
CE	Class B				

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: ±20ppm @25°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, Bluetooth		
Bluetooth	4.2GHz		

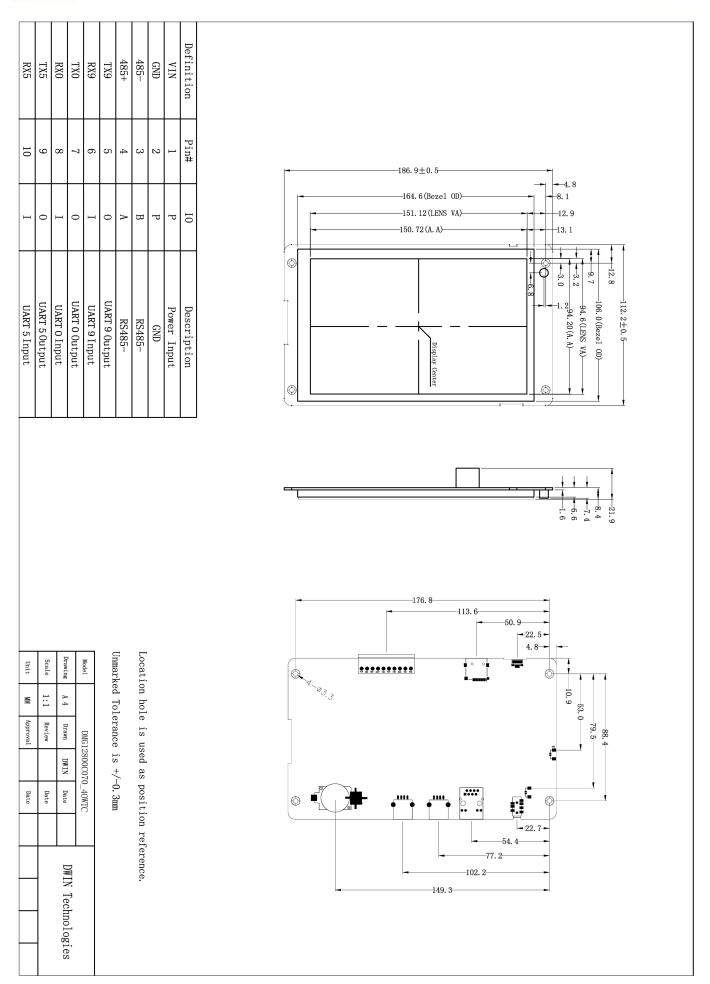


Development Platform

Development	
QT	QTCreator2.7.2 and above

Packing Capacity & Dimension

305g Size 220mm(L) * 160mm(W) * 47mm (H) 250mm(L) * 200mm(W) * 80mm (H) 320mm(L) * 350mm(W) * 300mm(H)	Layer - 2 2	Quantity/Layer - 1	Quantity(Pcs)
Size 220mm(L) * 160mm(W) * 47mm (H) 250mm(L) * 200mm(W) * 80mm (H) 320mm(L) * 270mm(W) * 80mm (H)	- 2	- 1	-
220mm(L) * 160mm(W) * 47mm (H) 250mm(L) * 200mm(W) * 80mm (H) 320mm(L) * 270mm(W) * 80mm (H)	- 2	- 1	-
220mm(L) * 160mm(W) * 47mm (H) 250mm(L) * 200mm(W) * 80mm (H) 320mm(L) * 270mm(W) * 80mm (H)	- 2	- 1	-
250mm(L) * 200mm(W) * 80mm (H) 320mm(L) * 270mm(W) * 80mm (H)	2		- 2
250mm(L) * 200mm(W) * 80mm (H) 320mm(L) * 270mm(W) * 80mm (H)			2
	2		
450mm(L) * 350mm(W) * 300mm(H)		2	4
	1	20	20
600mm(L) * 450mm(W) * 300mm(H)	1	34	34
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Revision Records

Rev.	Revise Date	Content	Editor
00	2023-02-24	First edition	YML
01	2024-01-29	Update appearance, ESD and temperature range	YML
02	2025-01-02	Modify the voltage value range, add development	Chen
03	2025-03-12	Add the description of Bluetooth	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:

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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