DMG12800T070_40WTC



DWIN Professional, Creditable, Successful

• 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	85° /85° /85° /85°	Wide viewing angle, high contrast, and good color reproduction		
Active Area (AA) 149.76mm(W)x93.60mm(H) -		- ×		
Viewing Area(VA) 150.76mm(W)x94.60mm(H) -		-		
Resolution	1280x800	- COm		
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			

• Touch Parameter

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

• Power Supply

Properties	Min	Тур	Мах	Unit
Power Voltage	9.0	12.0	36.0	V
	Y			

Recommended power supply:12V 1A DC.

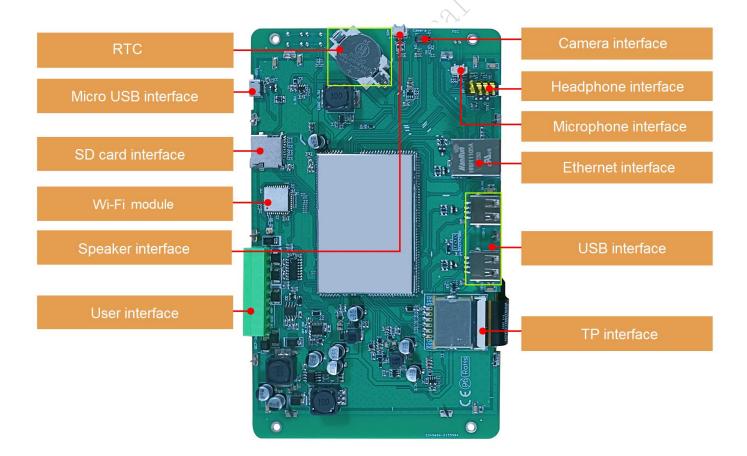
• Environment & Reliability Test

Properties Conditions		Min	Тур	Max	Unit
Working Temperature 60%RH at 12V voltage		-20	25	65	°C
Storage Temperature	Femperature -		25	80	°C
Working Humidity	umidity 25°C		60%	90%	RH
Conformal Coating	Y				
ESD	Air: ±8KV; Contact: ±6KV				
EFT	±2KV				
CE Certification	Y				
Additional cooling required for operation above 65°C.					

DWIN al partner for you Professional, Creditable, Successful

• 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°C			
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			



Professional, Creditable, Successful

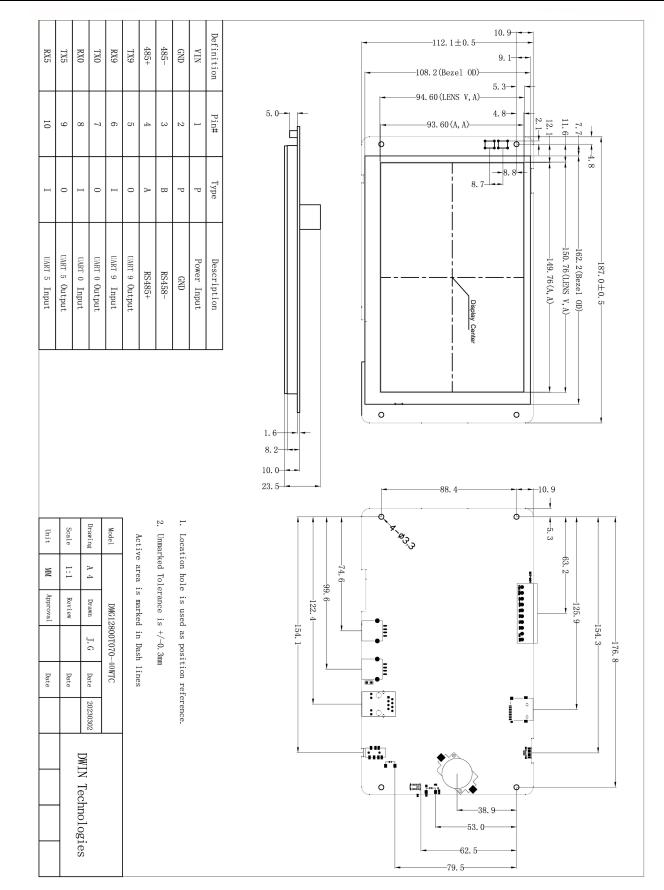
Development Platform

DWIN

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)	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)	chilcar		



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

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

TH Technology

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

Important Disclaimer

DWIN reserves the right to make any changes to product designs without prior notice.

Customers should ensure strictly adhering to all the relevant standards and requirements during the product application process, including but not limited to functional safety, information security, and regulatory provisions.

DWIN shall not bear any joint and several liability for any consequences that may arise from customers' adoption of DWIN products. In particular, for risks that may lead to significant property losses, environmental hazards, personal injury, or even death, especially in high-risk application areas such as military applications, ers Rechting hours and hou flammable and explosive places, and life-saving medical equipment, customers should independently assess the risks and take corresponding preventive and protective measures. DWIN shall not bear any relevant responsibility.

DWIN Technology