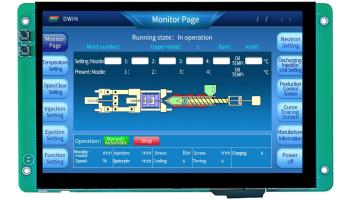
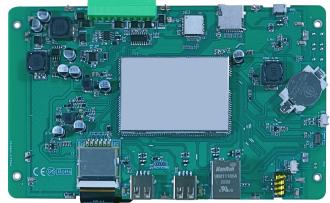


# DMG12800T070\_40WTC





Features:

- Industrial Linux intelligent display terminal based on RK3566, Linux version 4.19.
- 7.0-inch, 1280\*800 pixels resolution, 16.7M colors, IPS-TFT-LCD, wide viewing angle, capacitive touch.
- Adopt QT environment for secondary development.

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- Available for multi-language, vector font library, picture library, video library and audio library.
- Compatible with network cable connection with PC to download update project.
- Available for RS232, RS485 and Ethernet port to connect and communicate with external devices.



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#### **Master Control Parameters**

Properties	Parameters		
Motherboard Level	Industrial		
CPU	RK3566, Cortex-A55, quad-core		
Kernel Version	4.19		
OS	Linux		
FLASH	8Gbytes EMMC		
RAM	2Gbytes LPDDR4		

#### **Display Parameters**

Properties Parameters		Description		
Color	16.7M(16777216)colors	24 bit color 8R8G8B		
Panel Type	IPS	IPS process, TFT LCM with wide viewing angle		
Viewing Angle	85/85/85/85 (L/R/U/D)	Best View: symmetrical		
Active Area (A.A.)	149.76mm (W)*93.60mm (H)	1280*800 Pixel		
Visible Area (V.A.)	150.76mm (W)*94.60mm (H)	1280*800 Pixel		
Resolution	1280*800 Pixel	Available for 0°/90°/180°/270°rotated display		
Backlight	LED	≥20000H(time of the brightness decaying to 50% on the condition of continuous working with the maximum brightness)		
Brightness	250nit	100 levels adjustment(It's not recommend to set brightness to 1%~30% of the maximum, which may lead to LCD flicker.)		
Note: You can use dyna	mic screen saver wallpapers to av	oid afterimages caused by fixed page display for a long		

time.  $\mathbf{C}$ 

### Voltage & Current

Properties	Conditions	Min	Тур	Max	Unit
Power Voltage	-	7.0	12.0	23	V
Operation Current	VCC = +12V, Backlight on	-	310	-	mA
	VCC = +12V, Backlight off	-	140	-	mA

Recommended power supply: 12V 0.5A DC

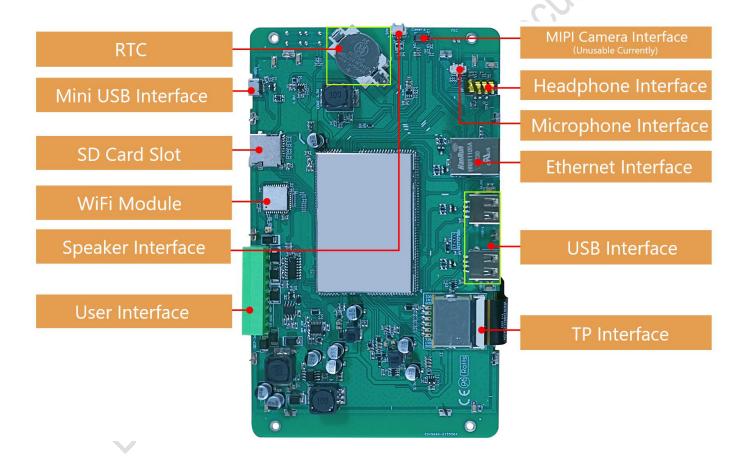
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#### **Reliability Test**

Properties	Conditions	Min	Тур	Max	Unit
Working Temperature	60%RH at 12V voltage	-20	25	70	°C
Storage Temperature	30 25 80				°C
Working Humidity	<b>25</b> ℃	10%	60%	90%	RH
Protective Paint	Yes				
ESD	Air discharge $\pm$ 8KV; Contact discharge $\pm$ 6KV				
EFT	Group pulse interference $\pm 2$ KV				

### Peripherals and Interfaces

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Properties	Parameters	Description			
	2-way RS232	UART5 & UART9			
СОМ	1-way RS485	UART8			
	1-way TTL/COMS	UART0			
USB Interface	3-way	HOST*2,OTG*1			
Headphone Interface	1-way	3.5mm spacing interface			
Speaker Interface	1-way	2Pin_1.25mm interface			
Microphone Interface	1-way	2Pin_1.25mm interface			
Camera Interface	1-way	USB, Not supported by Mipi			
SD Card Slot	1-way	Drawer type card slot(Max 64G)			
Ethernet Interface	1-way	10/100Mbps			
WIFI Module	1-way	IEEE 802.11Bb/g/n,2.4G,Bluetooth			
RTC	1-way	Button cell for power supply. Accuracy: ±20ppm @25°C			



Disclaimer:

There are multiple parallel raw materials coexisting to guarantee the stable supply. If customers have particular raw material preferences or requirements, please contact the sales personnel.

• Interface

Properties	Conditions	Min	Тур	Мах	Unit
Baud Rate	User Set	2400	115200	230440	bps
Output Voltage	Output 1	-	-5.0	-	V
(TXD)	Output 0	-	5.0	-	V
Input Voltage (RXD)	Input 1	-	-5.0	-	V
	Input 0	-	5.0	-	V
Baud Rate	User Set	2400	115200	921600	bps
(V_AB)	Output 1	2.5	5.0	-	V
	Output 0	-	-5.0	-2.5	V
(V_AB)	Input 1	0	2.5	-	V
	Input 0	-	-2.5	-0.2	V
Interface	Support TTL/COMS,RS232 or RS485 level				
Socket	10Pin_3.81mm Socket				

## • Packing Capacity & Dimension

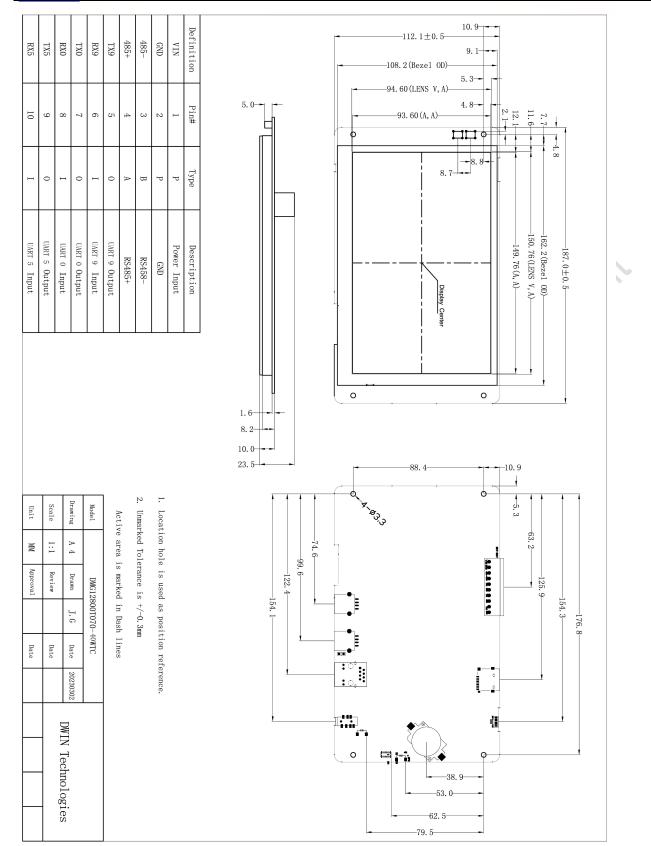
Dimension					
Dimension	187.0(W)*112.1(H)*23.5(T)mm				
Net Weight	310g	là			
Packing Capacity					
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)	
Carton1:	220mm(L)*160mm(W)*47mm (H)		-	-	
Carton2:	250mm(L)*200mm(W)*80mm (H)	2 1 2		2	
Carton3:	320mm(L)*270mm(W)*80mm (H) 2		2	4	
Carton4:	450mm(L)*350mm(W)*300mm(H)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

Disclaimer: The product design is subject to alternation and improvement without prior notice.

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### **Record of Revision**

Ver	Revise Date	Content	Editor
00	2023-03-14	First edition	YML

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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