# DMG10768T080\_33WTC



# Features:

- Industrial Grade Android intelligent display based on RK3288, running Android 8.1 OS.
- 8.0-inch, 1024\*768 pixels resolution, 16.7M colors, IPS-TFT-LCD, capacitive touch.
- Compatible with 4G, WIFI, Bluetooth, microphone, camera and other rich peripherals.
- Available for USB and SD card updates.
- Available for RS232, RS485 and Ethernet port to connect and communicate with external devices.
- Available for downloading Android general apps to realize functions such as WiFi ,wired internet , browsing, music and video playback, data copy, etc.

#### Master Control Parameters

Properties	Parameters		
Motherboard Level	Industrial		
CPU	RK3288, ARM Cortex-A17, Quad-core		
OS	Android 8.1		
FLASH	8Gbytes EMMC5.0		
RAM	2Gbytes DDR3		

## • Display Parameters

Properties Parameters		Description		
Color	16.7M(16777216)colors	24 bit color 8R8G8B		
Panel Type	IPS	IPS process, TFT LCM with wide view angle		
Viewing Angle	85/85/85/85 (L/R/U/D)	Best view angle : symmetrical		
Active Area (A.A.)	162.1mm(W)*121.5mm(H)	1024*768 Pixel		
Resolution	1024*768 Pixel	Available for 0°/90°/180°/270°rotated display		
Backlight	LED	≥30000H(time of the brightness decaying to 50% of the condition of continuous working with the maxin 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 dynamic screen saver wallpapers to avoid afterimages caused by fixed page display for a long time.

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## • Voltage & Current

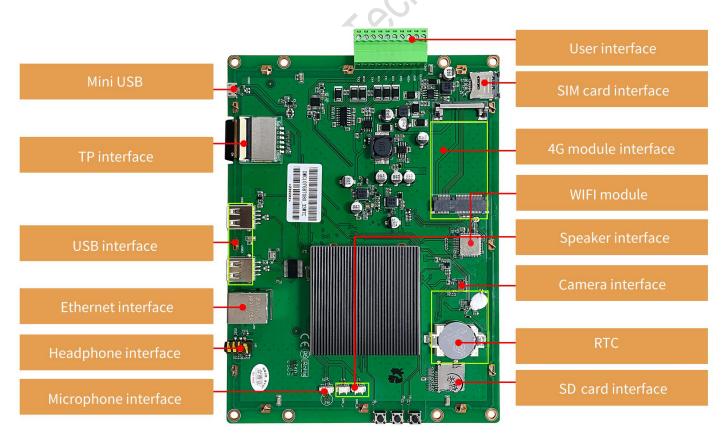
Properties	Conditions	Min	Тур.	Max	Unit
Power Voltage		7.0	12.0	23	V
Operating Current	VCC = +12V, Backlight on -		460	-	mA
	VCC = +12V, Backlight off	-	160	-	mA
Recommended power supply: 12V 1A DC					

### Reliability Test

Properties	perties Conditions		Тур.	Мах	Unit
Working Temperature	60%RH at 12V voltage	-20	25	70	°C
Storage Temperature	-	-30	25	80	°C
Working Humidity 25°C		10%	60%	90%	RH
Conformal Coating	Yes				
ESD Grade	Air discharge±8KV; Contact discharge±6KV				
EFT Test	Group pulse interference ±2KV				

#### • Peripherals and Interfaces

Properties	Parameters	Description		
	2-way RS232	UART1 & UART4		
СОМ	1-way RS485	UART3		
	TTL/COMS	UART2(Debug interface)		
USB Interface	3-way	HOST*2,OTG*1		
Headphone Interface	1-way	3.5mm spacing interface		
Speaker Interface	2-way	Left & right		
Microphone Interface	1-way	- ×		
Camera Interface	1-way	Mipi&USB		
SD Card Slot	1-way	Drawer type card slot(Max 64G)		
SIM Card Slot	1-way	Drawer type card slot		
4G Module	1-way	Factory not configured, customizable to add		
Ethernet	1-way	10/100Mbps		
WIFI Module	1-way	IEEE 802.11Bb/g/n,2.4G,Bluetooth		
RTC	Built-in	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

DWIN

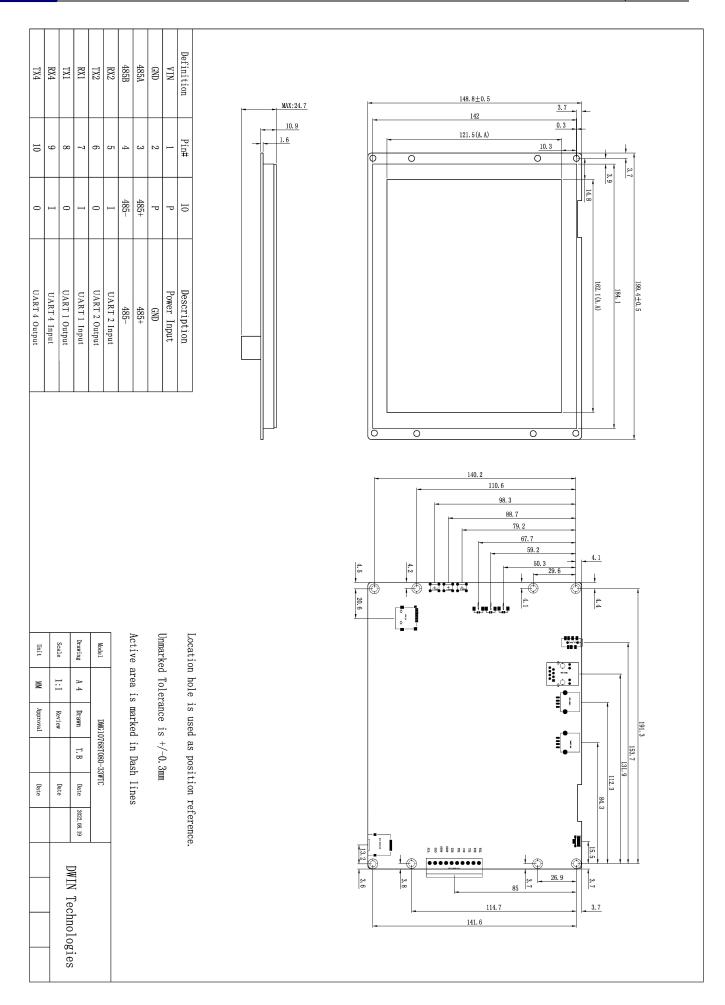
Properties	Conditions	Min	Тур	Мах	Unit
Baud Rate	User Set	2400	115200	230440	bps
Output Voltage	Output 1	-	-5.0	-3.0	V
(TXD)	Output 0	3.0	5.0	-	V
Input Voltage	Input 1	-15.0	-5.0	-	V
(RXD)	Input 0	-	5.0	15.0	V
Baud Rate	User Set	2400	115200	921600	bps
(V_AB)	Output 1	2.5	5.0	-	V
	Output 0	-	-5.0	-2.5	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**

ONIN TEU.

Dimension							
Dimension	199.4(W)*148.8(H)*24.7(T)mm	199.4(W)*148.8(H)*24.7(T)mm					
Net Weight	490g						
Packing Capacity	Packing Capacity						
Model	CartonSize	Layer	Quantity/Layer	Quantity(Pcs)			
Carton1:	220mm(L)*160mm(W)*47mm (H)	<u> </u>	-	-			
Carton2:	250mm(L)*200mm(W)*80mm (H)	2	1	2			
Carton3:	320mm(L)*270mm(W)*80mm (H)	-	-	-			
Carton4:	450mm(L)*350mm(W)*300mm(H)	1	16	16			
Carton5:	600mm(L)*450mm(W)*300mm(H)	1	30	30			

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



#### • Revision Records

Rev	Revise Date	Content	Editor
00	2022-11-28	First Edition	YML
01	2022-12-05	Correct Package Information	YML
02	2022-12-09	Properties Optimize	YML
03	2023-5-15	Remove the 4G module and update the physical image	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:

- 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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