# DMG12800T070\_34WTC

## 7.0 Inches,1280\*RGB\*800,16.7M Colors, IPS screen, Capacitive Touch



- Industrial Android intelligent display terminal based on RK3288, running Android 8.1 OS.
- 7.0-inch, 1280\*800 pixels resolution, 16.7M colors, IPS-TFT-LCD, Capacitive touch panel.
- Compatible with 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

**DWIN** Professional, Creditable, Successful

#### • Master Control Parameters

Item	Description		
Motherboard level	Industrial		
CPU	RK3288, ARM Cortex-A17, Quad-core		
FLASH	8Gbytes EMMC5.0		
RAM	2Gbytes DDR3		
OS	Android 8.1		
Note:Support secondary development. (According to the standard Android interface development)			

#### • Display Parameters

Item	Data	Description
Color	16.7M(16777216)colors	24 bit color 8R8G8B
LCD type	IPS	IPS process TFT LCM ,wide view angle
Viewing angle	85/85/85/85 (L/R/U/D)	Best view angle: symmetrical
Active area (A.A.)	149.8mm (W)*93.6mm (H)	1280*800
Resolution	1280*800	Support 0°/90°/180°/270°rotated display
Backlight	LED	≥30000H(Time of the brightness decaying to 50% on the condition of continuous working with the maximum
Brightness	300nit	0~100 grade (When the brightness is adjusted to 1%~30% of the maximum brightness, flickering may
Note:You can use dyn time.	namic screen saver wallpapers to av	oid afterimages caused by fixed page display for a long

#### • Voltage & Current

Item Conditions		Min	Тур.	Мах	Unit
Power voltage -		6.0	12.0	23	V
Operating current	VCC = +12V, Backlight on	-	360	-	mA
	VCC = +12V, Backlight off	-	100	-	mA
Recommended power supply: 12V 1A DC					

#### • Reliability Test

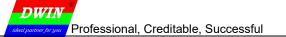
ltem	Conditions	Min	Тур.	Мах	Unit	
Operating temperature	60%RH at 12V voltage	-20	25	70	°C	
Storage temperature	-	-30	25	80	°C	
Operating humidity	25℃ 10% 60% 90% RI					
ESD	Air discharge $\pm$ 8KV; Contact discharge $\pm$ 6KV					

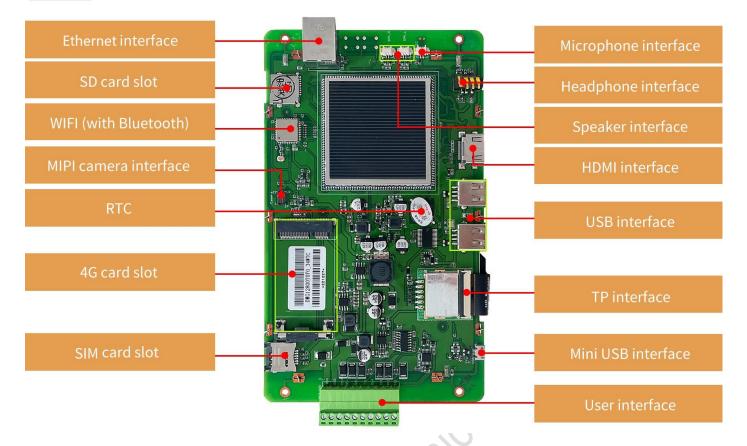
#### **Interface Definition**

ltem	Conditions	Min	Тур.	Max	Unit
UART1/4 baud rate	User Defined	2400	115200	230440	bps
UART output	Output 1 -		-13.2	-	V
voltage (TXD)	Output 0	-	13.2	-	V
UART input	Input 1	-	-13.2	-	V
voltage (RXD)	Input 0	-	13.2	-	V
UART3 baud rate	User Defined	2400	115200	921600	bps
UART output	Output 1	2.5	5.0	-	V
voltage level (V_AB)	Output 0	-	-5.0	-2.5	V
UART input voltage level	Input 1	0	2.5		V
(V_AB)	Input 0	-	-2.5	-0.2	V
UART mode	Support TTL/COMS, RS232 or RS485 level				
Interface cable	10Pin_3.81mm Socket				
Iterface Description					

#### **Interface Description**

Properties	Parameters	Description		
	2-way RS232	UART1 & UART4		
сом	1-way RS485	UART3		
	TTL/COMS	UART2(Debugging interface)		
USB interface	3-way	HOST*2, OTG*1		
Headphone interface	1-way	3.5mm spacing interface		
Speaker interface	2-way	Left & right		
Microphone 1-way		On board		
Camera interface 1-way		Mipi & USB		
SIM card slot	1-way	Drawer type card slot		
SD card slot	1-way	Drawer type card slot(Max 64G)		
Ethernet interface	1-way	10/100Mbps		
WIFI interface	1-way	IEEE 802.11Bb/g/n,2.4G, Bluetooth		
4G module	Not configured	With reserved interface, customizable to add		
HDMI interface	1-way	HDMI interface		





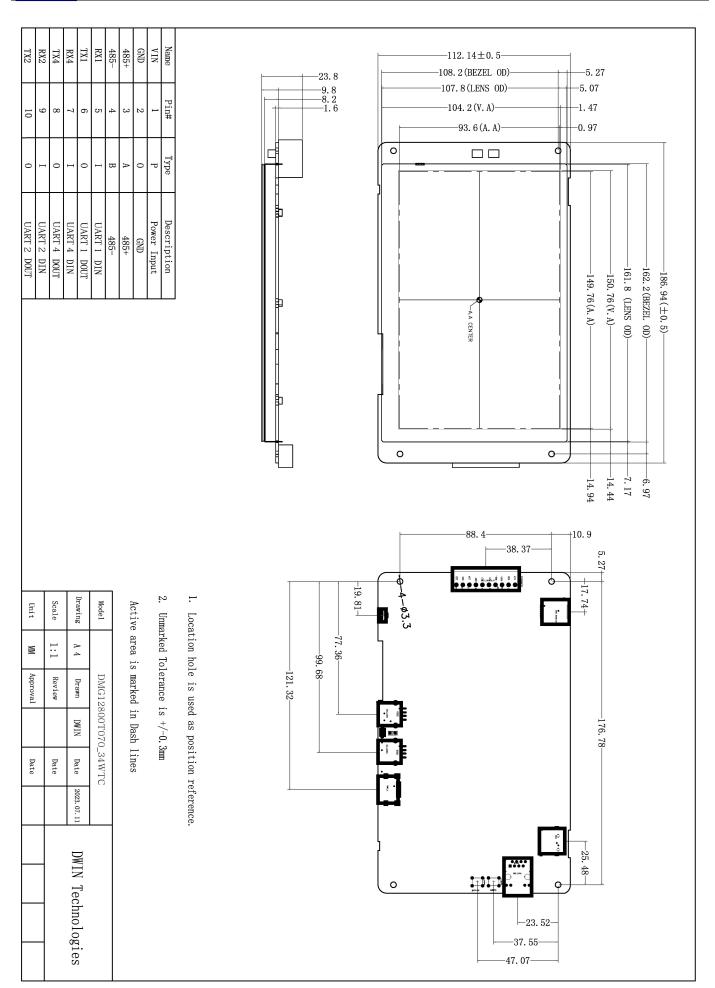
Disclaimer:

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.

### Packing Capacity & Dimension

Dimension						
Dimension	186.9(W)*112.1(H)*23.8(T)mm					
Net Weight	330g					
Packing Capacity	Packing Capacity					
Model	CartonSize	Layer	Quantity/Layer	Quantity(Pcs)		
Carton1:	220mm(L)*160mm(W)*47mm (H)	_				
		-	-	-		
Carton2:	250mm(L)*200mm(W)*80mm (H)	2	1	2		
Carton2: Carton3:			- 1 1	2 4		
	250mm(L)*200mm(W)*80mm (H)	2	1 1 20	_		

Disclaimer: the data is for reference only and the information of product design that do not affect performance parameters and utilization is subject to alternation without prior notice.



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• Revision Records

Version	Revise Date	Content	Editor
00	2021-10-12	First Edition	QC department
01	2022-12-09	Properties, Package information and Format Update	YML
02	2023-7-11	PCB board and CAD update	

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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