

# DMG10600T070\_34WTC



- DMG10600T070\_34WTC is an industrial Android intelligent display terminal launched by DWIN based on RK3288, running Android 8.1 OS.
- 7.0-inch, 1024\*600, 16.7M colors, IPS screen, capacitive touch, Android system
- Compatible with 4G, WIFI, Bluetooth, microphone, camera and other rich peripherals.
- Available for USB and SD card updates.
- Available for downloading Android general apps to realize functions such as WiFi ,wired internet , browsing, music and video playback and data copy.
- Support RS232, RS485 and Ethernet communication with external devices.

## ● Master Control Parameters

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

## ● Display Parameters

Item	Data	Description
<b>Color</b>	16.7M (16777216) colors	24 bit color 8R8G8B
<b>LCD type</b>	IPS	IPS process TFT LCM ,wide view angle
<b>Viewing angle</b>	85/85/85/85 (L/R/U/D)	Best view angle: symmetrical
<b>Active area (A.A.)</b>	154.08 mm (W)*85.92mm (H)	1024*600
<b>Resolution</b>	1024*600	Support 0°/90°/180°/270°rotated display
<b>Backlight</b>	LED	≥30000H(Time of the brightness decaying to 50% on the condition of continuous working with the maximum brightness)
<b>Brightness</b>	300nit	0~100 grade (When the brightness is adjusted to 1%~30% of the maximum brightness, flickering may occur and is not recommended to use in this range)
Note: You can use dynamic screen saver wallpapers to avoid afterimages caused by fixed page display for a long time.		

## ● Voltage & Current

Item	Conditions	Min	Typ.	Max	Unit
<b>Power voltage</b>	-	6.0	12.0	36.0	V
<b>Operating current</b>	VCC = +12V, Backlight on	-	360	-	mA
	VCC = +12V, Backlight off	-	100	-	mA
Recommended power supply: 12V 1A DC					

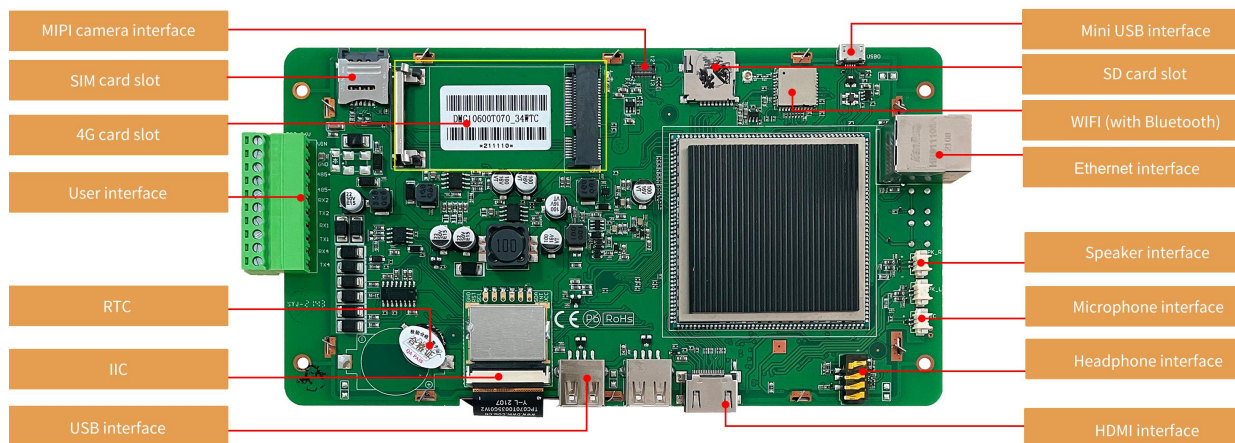
**● Reliability Test**

Item	Conditions	Min	Typ.	Max	Unit
Operating temperature	60%RH at 12V voltage	-20	25	70	°C
Storage temperature	-	-30	25	80	°C
Operating humidity	25°C	10%	60%	90%	RH
ESD class	Air discharge ±8KV, Contact discharge ±6K				

**● Interface Definition**

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

## ● Interface Description

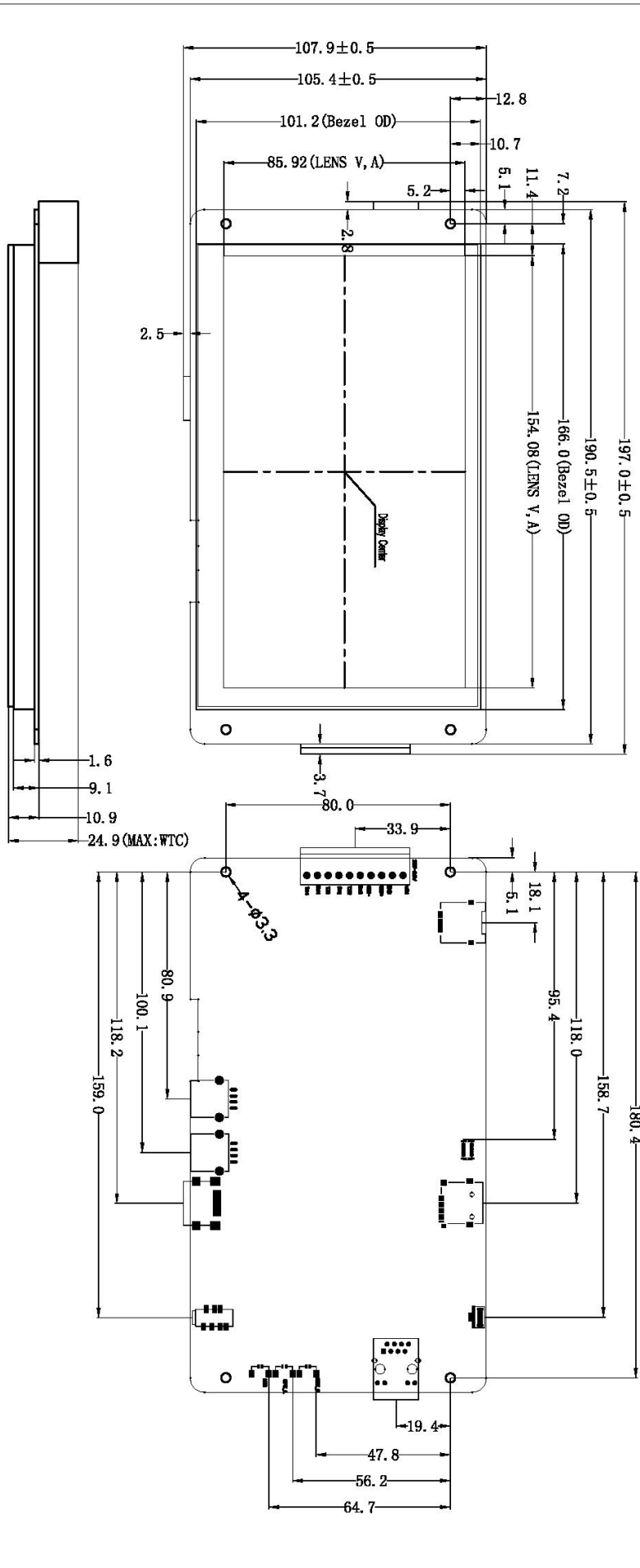


Properties	Parameters	Description
COM	2-way RS232	UART1 & UART4
	1-way RS485	UART3
	TTL/COMS	UART2(Debugging interface)
USB interface	3-way	HOST*2, OTG*1
Headphone interface	1-way	3.5mm spacing interface
Speaker interface	2-way	Left & right
Microphone interface	1-way	On board
Camera interface	1-way	Mipi & 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	Configurable for 4G module
HDMI interface	1-way	HDMI interface

● **Packaging & Dimensions**

Dimension				
<b>Dimension</b>	197.0(W)*107.9(H)*24.9(T)mm			
<b>Net Weight</b>	325g			
Packing Capacity				
Model	Carton Size	Layer	Quantity/Layer	Quantity(Pcs)
<b>Carton1:</b>	220mm(L)*160mm(W)*47mm (H)	-	-	-
<b>Carton2:</b>	250mm(L)*200mm(W)*80mm (H)	2	1	2
<b>Carton3:</b>	320mm(L)*270mm(W)*80mm (H)	4	1	4
<b>Carton4:</b>	450mm(L)*350mm(W)*300mm(H)	1	20	20
<b>Carton5:</b>	600mm(L)*450mm(W)*300mm(H)	1	34	34

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



Definition	Pin#	Type	Description
VIN	1	P	Power Input
GND	2	0	GND
485+	3	A	485+
485-	4	B	485-
KX2	5	I	UART2 Input
TX2	6	0	UART2 Output
KX1	7	I	UART1 Input
TX1	8	0	UART1 Output
KX4	9	I	UART4 Input
TX4	10	0	UART4 Output

Location hole is used as position reference.  
 Unmarked Tolerance is +/-0.3mm  
 Active area is marked in Dash lines

Model	DMG810600T070-34WTC			DWIN Technology	
Drawing	A 4	Drawn	J. G		Date
Scale	1:1	Review		Date	
Unit	MM	Approval		Date	

**● Revision Records**

Version	Revise Date	Content	Editor
00	2021-10-12	First Edition	ZYJ
01	2022-12-09	Properties and Package Information and Format Update	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](mailto:dwinhmi@dwin.com.cn)

Website: [www.dwin-global.com](http://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!

DWIN Technology Technical Document