

DMG10600T101_33WTC

10.1-inch, 1024*600, 16.7M colors, IPS screen,

CTP, Android system



- **MG10600T101_33WTC is an industrial Android intelligent display terminal launched by DWIN based on RK3288, running Android 8.1 OS.**
- **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 and RS485 communication with external devices.**

1 Master control parameters

Item	Description
Motherboard level	Industrial
CPU	RK3288, ARM Cortex-A17, tetranuclear
CPU clock speed	1.8 GHz
FLASH	8Gbytes EMMC5.0
RAM	2Gbytes DDR3

2 OS parameter

OS	Android 8.1
Note: Support secondary development. (According to the standard Android interface development)	

3 Display parameters

Item	Data	Description
Color	16.7M(16777216)colors	24 bit color 8R8G8B
LCD type	IPS	IPS process TFT LCM ,wide viewing angle
Viewing angle	85/85/85/85 (L/R/U/D)	Best view angle: symmetrical
Active area (A.A.)	222.72mm (W)×125.28mm (H)	1024×600
Resolution	1024×600	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)
Brightness	310nit	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)

4 Voltage & current

Item	Conditions	Min	Typical	Max	Unit
Power voltage	-	6.0	12.0	36.0	V
Operating current	VCC = +12V, Backlight on	-	420	-	mA
	VCC = +12V, Backlight off	-	120	-	mA

Recommended power supply: 12V 1A DC

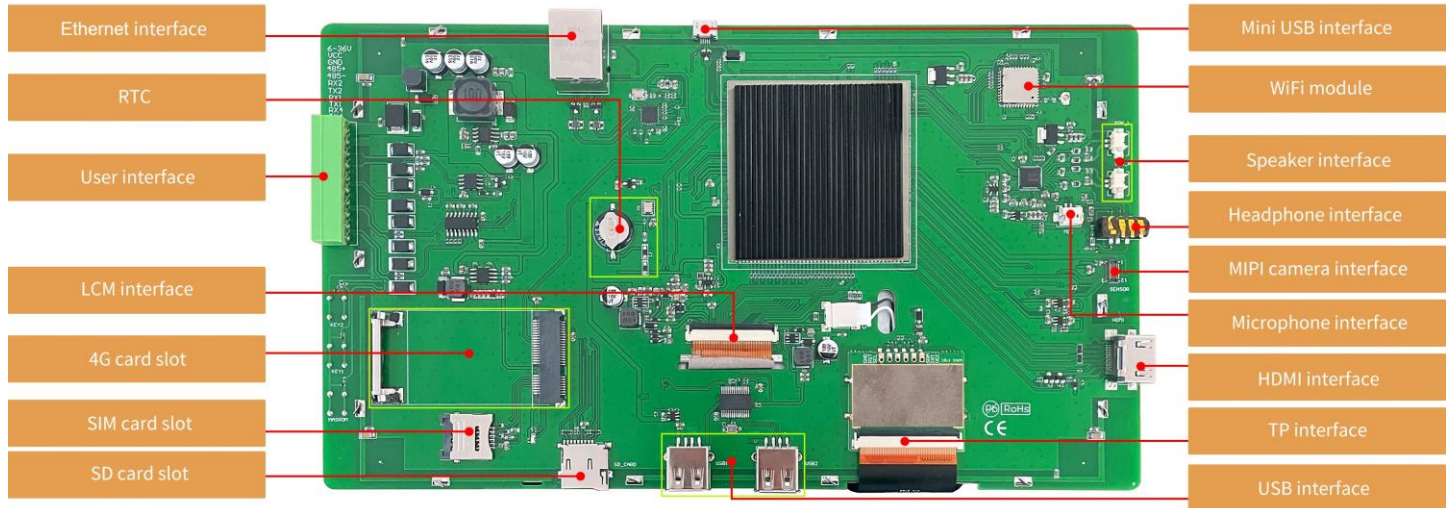
5 Reliability test

Item	Conditions	Min	Typical	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 test	Air discharge		±8KV		
	Contact discharge		±6KV		
EFT test	GB/T17626.2-2018		2KV 100KHz		

6 Interface definition

Item	Conditions	Min	Typical	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				

7 Interface description

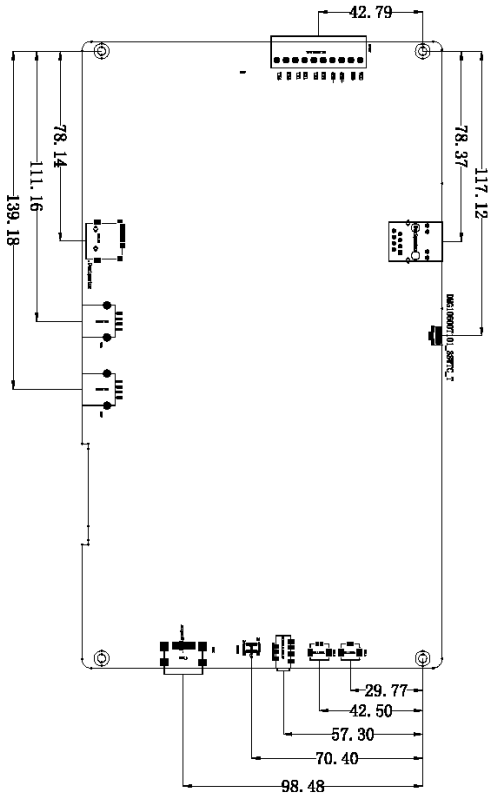
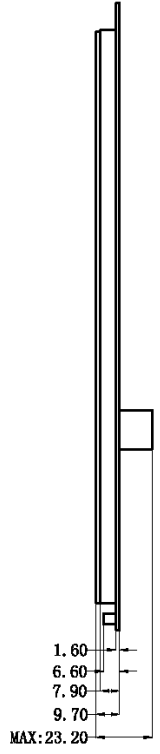
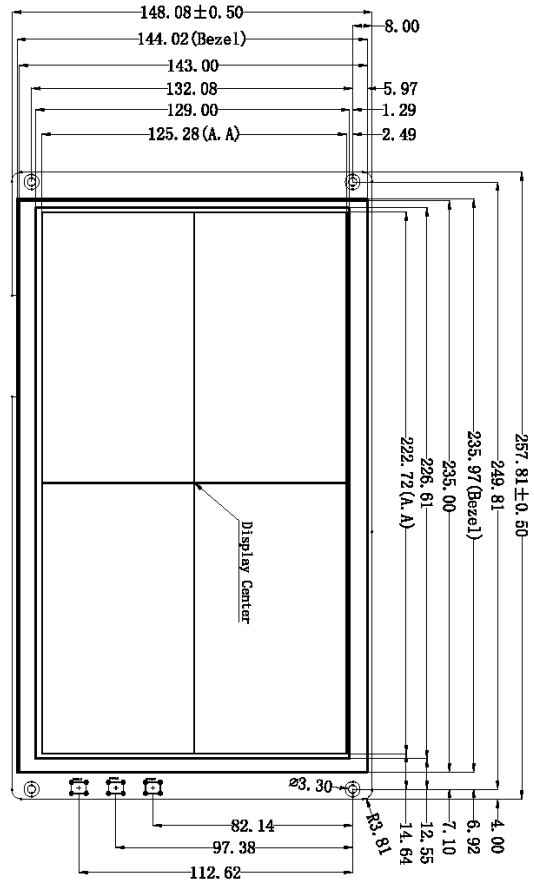


Properties	Parameters	Description
UART	2 RS232	UART1 & UART4
	1 RS485	UART3
	TTL/COMS	UART2(Debugging interface)
USB interface	3	HOST*2, OTG*1
Headphone interface	1	3.5mm spacing interface
Speaker interface	2	Left & right
Microphone interface	1	On board
Camera interface	1	Mipi & USB
SIM card slot	1	Drawer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

8 Packaging & dimensions

Form factor	257.0mm(W)×148.1mm(H)×23.2mm(T)	
Net weight	640g	
Packaging Standards		
Model	Dimensions	Quantity(Pcs)
Carton3	450mm(L)×350mm(W)×300mm(H)	2
Carton4	450mm(L)×420mm(W)×300mm(H)	10
Carton5	600mm(L)×450mm(W)×300mm(H)	16

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.



Name	Pin#	IO	Description
VIN	1	P	Power Input
GND	2	O	GND
485+	3	A	485+
485-	4	B	485-
RX2	5	I	DWIN UART input
TX2	6	O	DWIN UART output
RX1	7	I	DWIN UART input
TX1	8	O	DWIN UART output
RX4	9	I	DWIN UART input
TX4	10	O	DWIN UART output

Location hole is used as position reference.
 Unmarked Tolerance is $\pm 0.3\text{mm}$
 Active area is marked in Dash lines

Model		DM10600T101-33WTC		
Drawing	A 4	Drawn	G. Y	Date
Scale	1:1	Reviewer		Date
Unit	MM	Approval		Date

DWIN Technology

10 Revision records

Version	Revise Date	Content	Editor
00	2021-12-09	First Edition	ZYJ

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!