

# DMG10600C101\_03WTC

based on T5L ASIC of 10.1 inch 1024 × 600 Pixel dot matrix, 16.7M color,

IPS Screen, capacitive touch screen, standard instruction set ( TA )/ DGUS II system

Based on T5L ASIC 10.1 Inch, 1024xRGBx600, 16.7M Colors, IPS,

CTP, Standard instruction set (TA) / DGUS II system



## Revision record Record of Revision

version Rev	date Revise Date	description Content	editor Editor
00	2019-03-22	Initial Release First edition	Quality Control Department
01	2019-08-22	Modify serial port mode Modify interface	Quality Control Department
02	2020-11-06	Modified display performance parameters, memory parameters, and support peripherals Modify display, memory, peripheral	Li Jingjing
03	2021-03-09	Update storage temperature, CAD Figure Update storage temperature, CAD drawing	Li Jingjing

Display performance parameters Display

parameter Item	data Parameter	Description Description
colour Color	16.7M(16777216)colors	24 bit color 8R8G8B
LCD type Panel Type	IPS	IPS Craft TFT Display, wide viewing angle IPS process TFT LCM, wide viewing angle
Viewing angle Viewing Angle	85/85/85/85(L/R/U/D)	Best viewing angle: Symmetrical up and down Best view: symmetrical
Display size ( AA )	222.7 mm (W) × 125.3 mm (H)	1024x600 Pixel dot matrix
Resolution Resolution	1024x600	Can be set to 0°/90°/180°/270° Display mode Support 0°/90°/180°/270° rotated display
Backlight mode Backlight	led	not lower than 10000H (Work continuously at the highest brightness, the brightness is halved for the time) ≥ 10000H(Continuous working with maximum brightness, time of the brightness decays to 50%)
brightness Brightness	250nit	TA Mode: Available 64 Level brightness adjustment; DGUS II mode: can enter Row 100 Level brightness adjustment (when the brightness is adjusted to the highest brightness 1%~30% Flickering may occur when the device is in use, and it is not recommended to use it in this range). TA system:64 levels adjustment; DGUS II system:100 levels adjustment; (It's not recommend to set brightness to 1%~30% of the maximum, which may lead a flicker).
<p>Note: more than 30 Displaying a high-contrast still image for a long period of time may cause image retention. Please add a screen saver to avoid this problem. Note: Displaying of high-contrast still images for more than 30 minutes may result in residual images. Please add screen saver to avoid this problem.</p>		

Electrical performance parameters Voltage & Current

parameter Item	Test Conditions Conditions	Minimum Min.	Typical value Typ.	Max Max.	unit Unit
Operating Voltage Power Voltage	-	6.0	12.0	15.0	V
Working current Operation Current	VCC = +12V, The backlight brightness is maximum VCC = +12V, Backlight on	-	250	-	mA
	VCC = +12V, The backlight is off VCC = +12V, Backlight off	-	70	-	mA
Recommended power supply: 12V 1A DC power supply Recommended power supply: 12V 1A DC					

Working environment and reliability parameters Reliability Test

parameter Item	Test Conditions Conditions	Minimum Min.	Typical value Typ.	Max Max.	unit Unit
Operating temperature Working Temperature	12V Under voltage, humidity 60% 60%RH at 12V voltage	-20	25	70	°C
Storage temperature Storage Temperature	-	-30	25	80	°C
Working humidity Working Humidity	25 °C	10%	60%	90%	RH
Three prevention treatment Protective Paint	-	-	no None	-	-

Interface performance parameters Interface

parameter Item	Test Conditions Conditions	Minimum Min.	Typical value Typ.	Max Max.	unit Unit
Serial port baud rate Baudrate	User-defined (hardware profile setting) User Set	3150	115200	3225600	bps
Serial output level Output Voltage ( TXD )	Output 1, Iout = -4mA	2.7	3.2	-	V
	Output 0, Iout = 4mA	-	0.1	0.4	V
Serial input level Input Voltage ( RXD )	Input 1	2.4	3.3	5.5	V
	Input 0	0	-	1.0	V
Serial mode Interface	Serial port level selection jumper selection: ON = 8N1 3.3V & 5V TTL/CMOS ; OFF = 8N1 , RS232 Compatible interface Mode is determined by Jumper: ON = 8N1, 3.3V & 5V TTL/CMOS; OFF = 8N1, RS232				
User interface mode Socket	8Pin_2.0mm Seat with lock 8Pin_2.0mm Lock Socket				
USB interface	no None				

SD Card interface Slot	Have( SDHC/ FAT32 format) YES (SDHC/FAT32 Format)
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## Memory characteristics Memory

Memory category Item	Typical value Typ.	Features Features	Description Description
FLASH Memory ( TA/DGUS II system General)	16Mbytes	Font storage space Space of Font	Single font 256Kbytes, Store font, icon library and other binary file. A single font of 256Kbytes,store font, icon libraries, and other binary files
		Picture storage space (.ICL file) Picture Storage (. ICL file)	JPEG Picture storage format, (picture storage quantity and customer JPEG Figure Piece size dependent, single JPEG The size of the picture file should not exceed 764 Kbytes ) JPEG format(Picture quantity relate to JPEG size , size of a single JPEG image file should not exceed 764 Kbytes)
RAM Memory ( DGUS II )	128Kbytes	Variable storage space Variable Storage Space	Don't save when power off Data is not saved when power down
Nor Flash Memory ( DGUS II )	512Kbytes	User database User database	Power-down save Data is saved when power down

## UI and peripheral support UI &amp; Peripheral

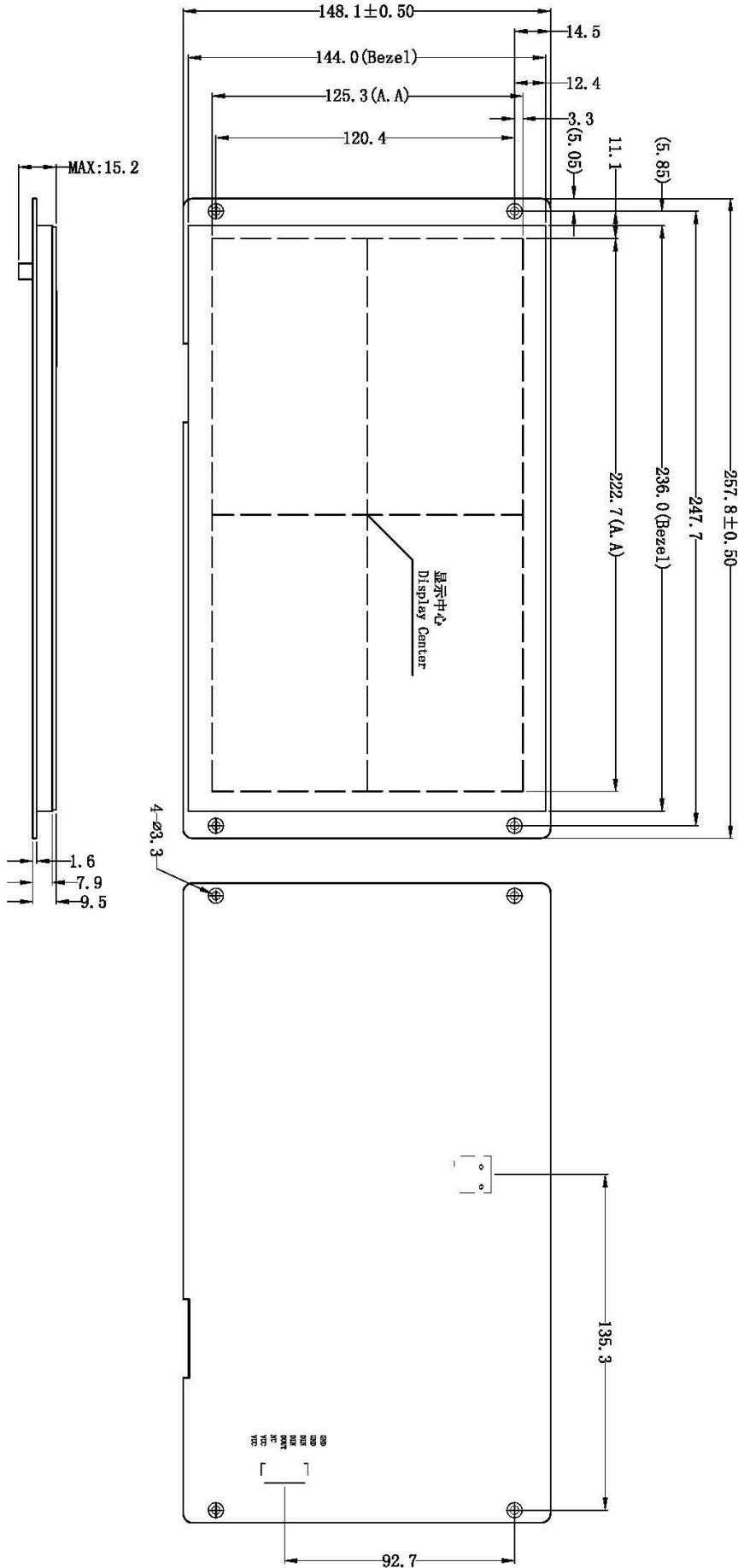
UI And peripherals UI & Peripheral	
UI version UI Version	TA / DGUS II (factory pre-installed DGUS II ) TA / DGUS II ( DGUS II pre-installed)
Support peripherals Peripheral	Support capacitive touch screen, buzzer, WIFI Module interface Capacitance touch panel, Buzzer, WIFI module interface

## Packaging and physical dimensions Packing Capacity &amp; Dimension

size Dimension				
Dimensions Dimension	257.8(W) × 148.1(H) × 15.2(T) mm			
Net Weight Net Weight	545g			
Packing standard Packing Capacity				
Packing box model Model	Packing box size Size	Number of layers (layers) Layer	Quantity/layer (slice) Quantity/Layer	Total quantity (pieces) Quantity(Pcs)
1 Number box Carton1 :	220mm(L) × 160mm(W) × 47mm (H)	-	-	-
2 Number box Carton2 :	250mm(L) × 200mm(W) × 80mm (H)	2	1	2
3 Number box Carton3 :	320mm(L) × 270mm(W) × 80mm (H)	-	-	-
4 Number box Carton4 :	450mm(L) × 350mm(W) × 300mm(H)	1	10	10
5 Number box Carton5 :	600mm(L) × 450mm(W) × 300mm(H)	-	-	-

Remarks: Does not affect performance parameters and product design changes used without notice.

**Remark: There is no extra-notice if the product design changes that do not affect performance parameters and use.**



定义Definition	序号Pin#	类型Type	说明Description
GND	7, 8	P	公共接地GND
DIN	5, 6	I	迪文屏串口输入DIN
DOUT	4	0	迪文屏串口输出DOUT
NC	3	-	未定义Not Define
VCC	1, 2	P	电源输入 Power Input

1. 尺寸定位基准为定位孔  
 Location hole is used as position reference.  
 2. 未标注公差为 $\pm 0.3\text{mm}$   
 Unmarked Tolerance is  $\pm 0.3\text{mm}$   
 注: 虚线标注为有效显示区域  
 Active area is marked in Dash lines

型号 Model	图纸 Drawing	比例 Scale	单位 Unit
DMG10600C101_03WTC	A 4		MM

图纸 Drawing	日期 Date	图纸 Drawing	日期 Date
DWTN		DWTN	

图纸 Drawing	日期 Date	图纸 Drawing	日期 Date
审核 Review		审核 Review	
批准 Approval		批准 Approval	

迪文科技 DWIN Technologies	
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