

DMG48270C043_03WN

Based on T5L ASIC 4.3 Inches, 480xRGBx272, 16.7M Colors, TN screen
Standard instruction set (TA) / DGUS II system, Cost-Effective screen



Record of Revision

Revise Date	Content
2019-03-20	First Edition
2019-05-15	Update the pictures



● Display

Item	Parameter	Description
Color	16.7M (16777216) colors	24 bit color 8R8G8B
(A.A)	95.0mm (W) × 53.9mm (H)	480x272
Resolution	480x272	Support 0°/90°/180°/270°rotated display
Backlight	LED	≥ 10000H (Continuous working with maximum brightness, time of brightness halves)
Brightness	250nit	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)
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.		

● Voltage & Current

Item	Conditions	Min	Typ	Max	Unit
Power Voltage	-	4.5	5.0	5.5	V
Operation Current	VCC = +5V, Backlight on	-	180	-	mA
	VCC = +5V, Backlight off	-	60	-	mA
Recommended power supply: 5V 1A DC					

● Reliability Test

Item	Conditions	Min	Typ	Max	Unit
Working Temperature	60%RH at 5V voltage	-20	25	70	°C
Storage Temperature	-	-30	25	85	°C
Working Humidity	25°C	10%	60%	90%	RH
Protective Paint	-	-	None	-	-

● Interface

Item	Conditions	Min	Typ	Max	Unit
Baudrate	User Set	3150	115200	3225600	bps
Output Voltage (TXD、BUSY)	Output 1, Iout = 8mA	3.0	-	4.5	V
	Output 0, Iout = -8mA	-	0	0.3	V
Input Voltage (RXD)	Input 1	2.7	3.3	-	V
	Input 0	0	-	1.2	V
Interface	UART2 : N81, 3.3V & 5V TTL/CMOS UART4 : N81/E81/O81/N82, 3.3V & 5V TTL/CMOS UART4 : Optional N81/E81/O81/N82 mode, 3.3V & 5V TTL/CMOS				
Socket	10Pin_1.0mm FCC Socket				
USB	None				
SD Slot	YES (SDHC/FAT32 Format)				

● Memory

Item	Typical value	Features	Typ value	Unit	Description
FLASH (TA/DGUS II)	16Mbytes	Space of Font	4-12	Mbytes	A single font of 256Kbytes, store font, icon libraries, and other binary files
		Picture Storage	12-4	Mbytes	JPEG format (Picture quantity relate to JPEG size, size of a single JPG image file should not exceed 256Kbytes)
RAM (DGUS II)	128Kbytes	Variable Storage Space	/	/	Data is not saved when power down
Nor Flash (DGUS II)	320Kbytes	User database	/	/	Data is saved when power down

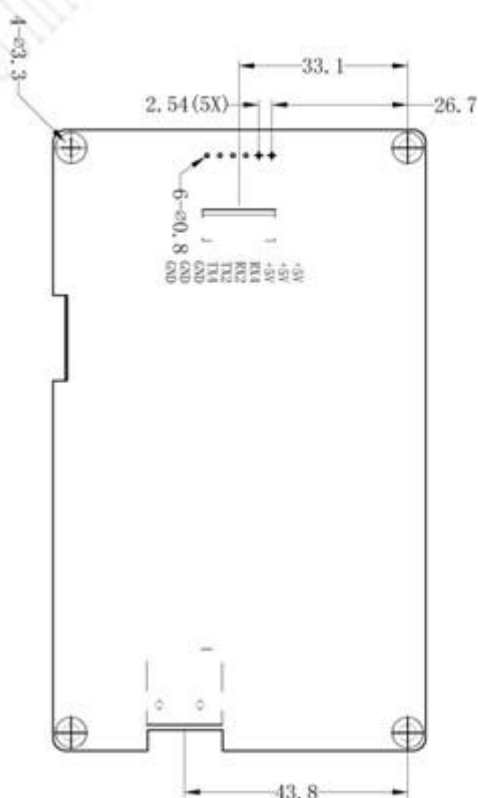
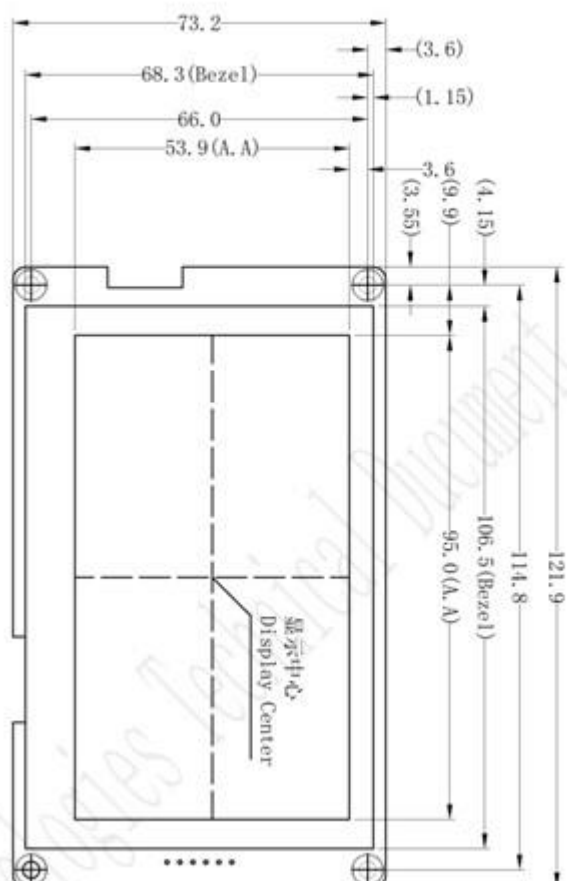
● UI & Peripheral

UI & Peripheral	
UI Version	TA / DGUS II (DGUS II pre-installed)
Peripheral	Speaker

● Packing Capacity & Dimension

Packing Capacity & Dimension				
Dimension				
Dimension	121.9(W) × 73.2(H) × 12.3(T) mm			
Net Weight	60g			
Packing Capacity				
Model	Size	Layer	Quantity/Layer	Quantity (Pcs)
1 Carton1:	220mm(L)×160mm(W)×47mm (H)	1	2	2
2 Carton2:	250mm(L)×200mm(W)×80mm (H)	2	2	4
3 Carton3:	320mm(L)×270mm(W)×80mm (H)	2	4	8
4 Carton4:	450mm(L)×350mm(W)×300mm(H)	2	25	50
Model	Size	Layer	Quantity/Layer	Quantity (Pcs)

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



GND	8, 9, 10	P		Description	Public ground / GND
TX1	7	0			Down screen serial output: BOUT
TX2	6	0			Down screen serial output: BOUT
RX2	5	1			Down screen serial input: DIN
RX4	4	1			Down screen serial input: DIN
+5V	1, 2, 3	P			

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	A 4		DM1N						
	MM								

1. Location hole is used as position reference.
2. Unmarked Tolerance is $\pm 0.3\text{mm}$

Active area is marked in Dash lines