



DMG48270C043_03WTC

Based on T5L ASIC 4.3 Inches, 480xRGBx272, 16.7M Colors, TN screen

CTP、Standard instruction set (TA) / DGUS II system Cost-Effective screen



Record of Revision

Revise Date	Content
2019-03-20	First Edition
2019-08-05	



★ Display

Item	Parameter	Description
Color	16.7M (16777216) colors	24 bit color 8R8G8B
(A.A)	95.0mm (W) × 53.9mm (H)	480x272 Pixel
(V.A)	96.5mm (W) × 55.4mm (H)	480x272 Pixel
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	℃
Storage Temperature	-	-30	25	85	℃
Working Humidity	25℃	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 = 1mA	3.0	3.3	-	V
	Output 0, Iout = -1mA	-	0	0.3	V
Input Voltage (RXD)	Input 1, Iin=1mA	2.4	3.3	5.0	V
	Input 0, Iin=-1mA	0	-	0.5	V
Interface	UART2: N81, 3.3V & 5V TTL/CMOS UART4: N81/E81/O81/N82, 3.3V & 5V TTL/CMOS(OS) UART4 : Optional N81/E81/O81/N82 mode , 3.3V & 5V TTL/CMOS (be used after OS configuration)				
Socket	10Pin_1.0mm FCC 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

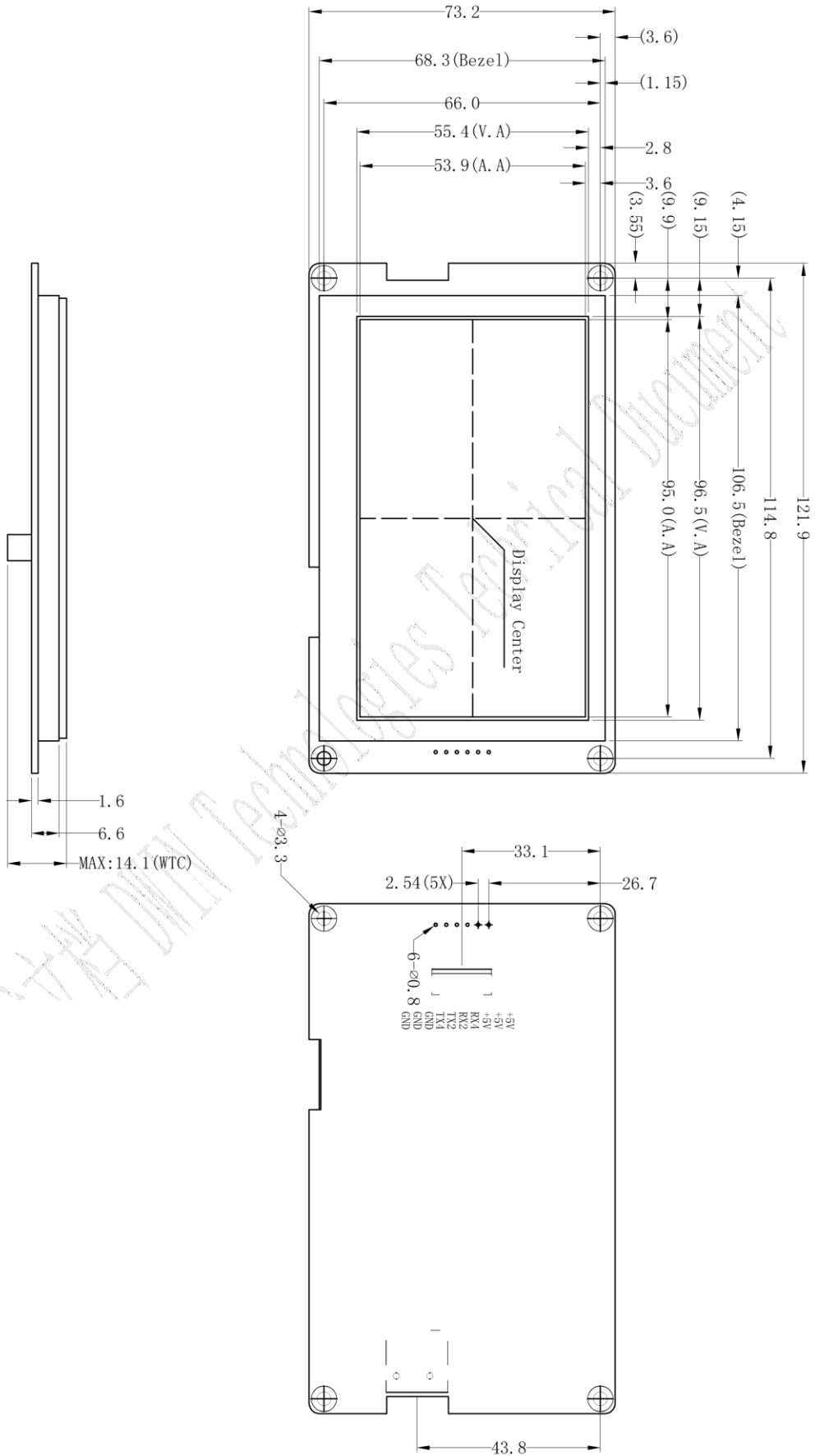
★ UI & Peripheral

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

★ Packing Capacity & Dimension

Dimension				
Dimension	121.9(W) x73.2(H) x 14.1(T) mm			
Net Weight	85g			
Packing Capacity				
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)
Carton1:	220mm(L)x160mm(W)x47mm (H)	1	2	2
Carton2:	250mm(L)x200mm(W)x80mm (H)	2	2	4
Carton3:	320mm(L)x270mm(W)x80mm (H)	2	4	8
Carton4:	450mm(L)x350mm(W)x300mm(H)	2	25	50
Carton5:	600mm(L)x450mm(W)x300mm(H)	2	60	120

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



GND	8, 9, 10	P
TX4	7	0
TX2	6	0
RX2	5	I
RX4	4	I
+5V	1, 2, 3	P

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A 4	DWIN		
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