

DMG80480C043_01WN

DMG80480C04

based on T5L ASIC of 4.3 inch 480 ×

, Resistive touch screen, standard instruction set (TA)

Based on T5L ASIC 4.3 Inches, 480xRG

RTP , Standard instruction set (TA) / DGU



Revision record Record of Revision

Date / Revise Date	Description / Content
2019-07-31	First release/ First Edition Update size/
2019-09-16	Update Dimension Update storage
2020-05-19	characteristics/ Update Memory
2020-08-12	Update physical drawing/ Update physical drawing

Display performance parameters Display

parameter Item	data Parameter	Description Description
colour Color	16.7M (16777216) colors	24 bit color 8R8G8B 480x800 Pixel dot matrix (480x800
Display size (AA)	56.16mm (W) ×93.6mm (H)	Pixel Matrix) 480x800 Pixel dot matrix (480x800
View field size (VA)	57.0mm (W) ×94.4mm (H)	Pixel Matrix)
Resolution Resolution	480x800 Pixel dot matrix 480x800 Pixel Matrix	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 brightness halves)
brightness Brightness	200nit DMG80480C043_01WTR 250nit DMG80480C043_01WN	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 adjustmen (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	-	4.6	5.0	5.5	V
Working current Operation Current	VCC = +5V , The backlight brightness is maximum VCC = +5V, Backlight on	-	180	-	mA
	VCC = +5V , The backlight is off VCC = +5V, Backlight off	-	70	-	mA

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	5V Under voltage, humidity 60% 60%RH at 5V voltage	-20	25	70	°C
Storage temperature Storage Temperature	-	-30	25	85	°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 = 1mA	3.0	3.3	-	V
	Output 0, Iout = -1mA	-	0	0.3	V
Serial input level Input Voltage (RXD)	Input 1 , Iin = 1mA	2.4	3.3	5.0	V
	Input 0 , Iin = -1mA	0	-	0.5	V
Serial mode Interface	UART2 : N81 , 3.3V TTL/CMOS UART4 : N81/E81/O81/N82 Four modes are available, 3.3V TTL/CMOS (OS Can be used after configuration) UART4 : Optional N81/E81/O81/N82 four mode , 3.3V TTL/CMOS (Be used after OS configuration)				
User interface mode Socket	10Pin_1.0mm FCC Seat 10Pin_1.0mm FCC Socket				
USB interface	no None				
SD Card interface Slot	Have(Micro SDHC(TF) card/ FAT32 format) YES (Micro SDHC(TF) card /FAT32 Format)				

Memory characteristics Memory

Memory category Item	Typical value Typical value	Features Features	Typical value Typ value	unit Unit	Description Description
FLASH Memory	16Mbytes	Font storage space Space of Font	4-12	Mbytes	Single font 256Kbytes, Store fonts, Icon library and other binary files. A single font of 256Kbytes,store font, icon libraries,and other binary files
		Picture storage space Picture Storage	12-4	Mbytes	JPEG Picture storage format, (picture storage number Volume and customers JPEG The picture size is related, single JPEG The size of the picture file is not To exceed 252 Kbytes) JPEG format(Picture quantity relate to JPEG size , size of a single JPEG image file should not exceed 252 Kbytes)
RAM Memory	128Kbytes	Variable storage space Variable Storage Space	/	/	Don't save when power off Data is not saved when power down
Nor Flash Memory	512Kbytes	User database User database	/	/	Power-down save Data is saved when power down

UI and peripheral support UI & 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	DMG80480C043_01WN: buzzer DMG80480C043_01WN: Buzzer DMG80480C043_01WTR: Support resistive touch screen, buzzer DMG80480C043_01WTR: Resistive touch screen, Buzzer

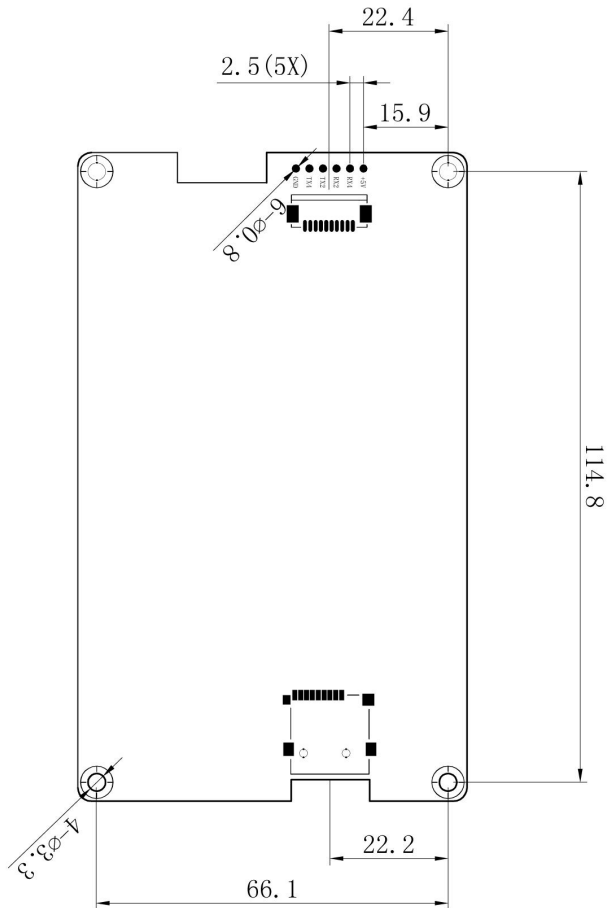
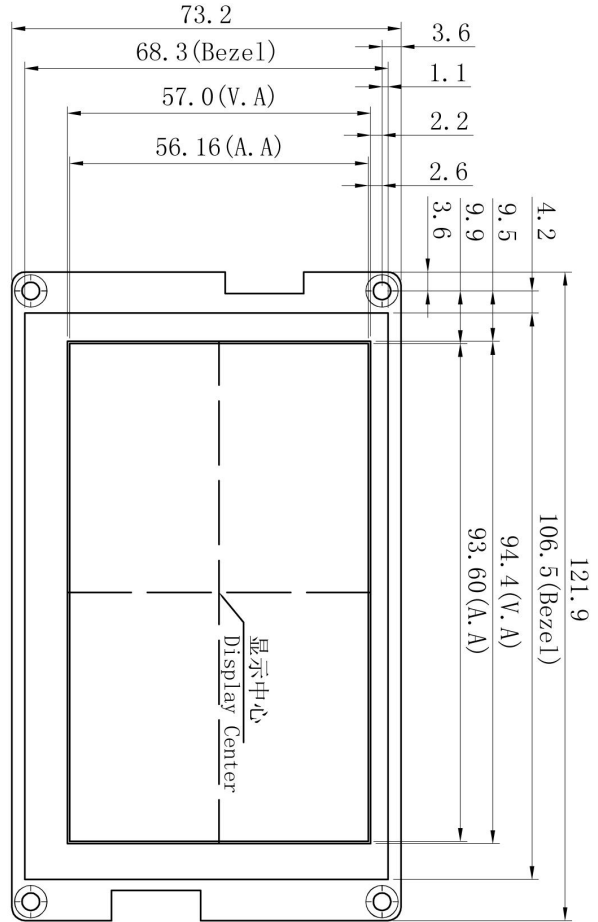
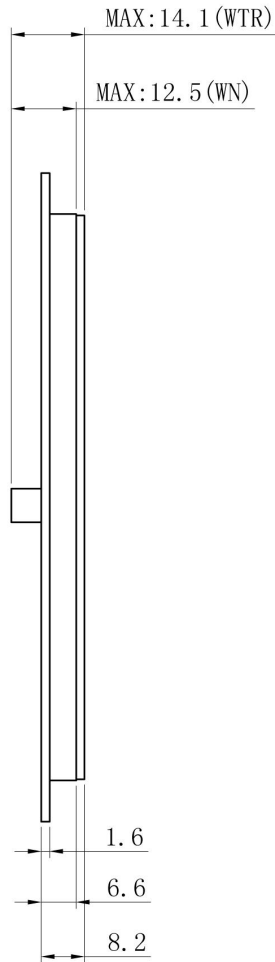
Packaging and physical dimensions Packing Capacity & Dimension

size Dimension				
Dimensions Dimension	DMG80480C043_01WTR: 121.9(W) × 73.2(H) ×14.1 (T) mm DMG80480C043_01WN: 121.9(W) × 73.2(H) ×12.5 (T) mm			
Net Weight Net Weight	DMG80480C043_01WTR :110g DMG80480C043_01WN :95g			
Packing standard Packing Capacity				
Packing box model Model	Packing box size Size	Number of layers Layer	Quantity/layer Quantity/Layer	Total quantity (pieces) Quantity(Pcs)
1 Number box Carton1 :	220mm(L)×160mm(W)×47mm (H)	1	2	2
2 Number box Carton2 :	250mm(L)×200mm(W)×80mm (H)	2	2	4
3 Number box Carton3 :	320mm(L)×270mm(W)×80mm (H)	2	4	8
4 Number box Carton4 :	450mm(L)×350mm(W)×300mm(H)	-	-	-
5 Number box Carton5 :	600mm(L)×450mm(W)×300mm(H)	2	60	120

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.

引脚名称	引脚定义	引脚类型	说明
GND	8, 9, 10	P	公共接地/GND
TX4	7	0	迪文屏串口输出DOUT
TX2	6	0	迪文屏串口输出DOUT
RX2	5	1	迪文屏串口输入DIN
RX4	4	1	迪文屏串口输入DIN
+5V	1, 2, 3	P	电源输入 /Power Input



型号	DMG80480C043_01WN			迪文科技 DWIN Technologies
图纸比例	图纸	图纸	图纸	
A 4	DMG80480C043_01WTR	DWIN	日期	
	审核	日期	日期	
单位	MM	批准	日期	

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